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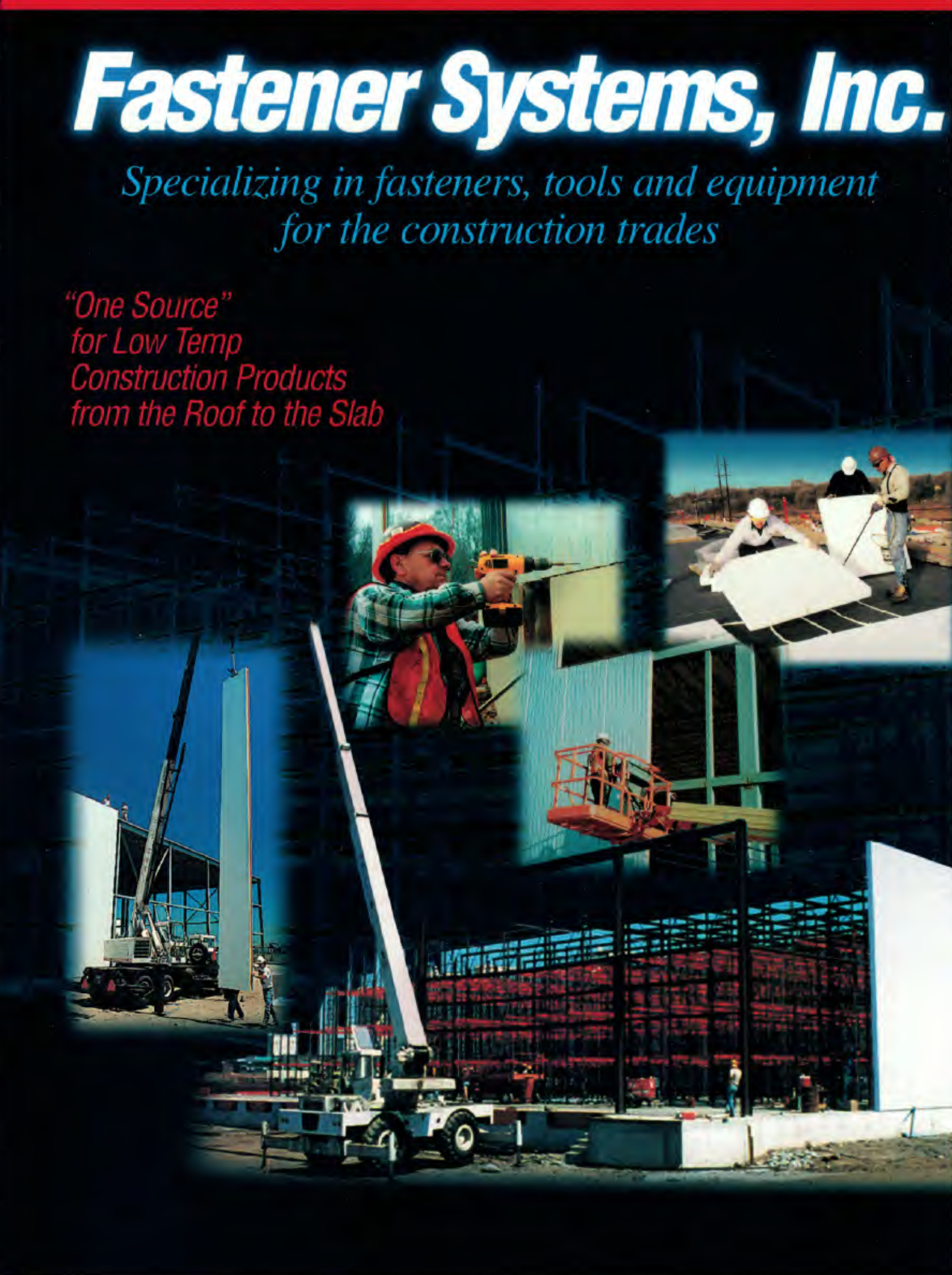

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Dear patrons and friends,

This catalog was designed to be the most complete and informative fastener and tool reference guide in the construction industry. Since our inception in 1984 our hallmark has been personalized service and quality products at competitive prices. Exceptional service, combined with our personable and knowledgeable sales staff, has made FSI a leader in the fastener industry. FSI is a national company with customers in all fifty states, Canada and over-seas.

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I look forward to the mutual benefits of new partnerships as well as continued relationships with our customers, our friends. As president of FSI I am personally involved in the everyday operation and I guarantee that FSI conducts business the way business should be conducted – the customer is number one and always will be number one. As always, my staff and I look forward to serving you, our valued customer.

Your business partner,

John J. Sipple

John J. Sipple
President

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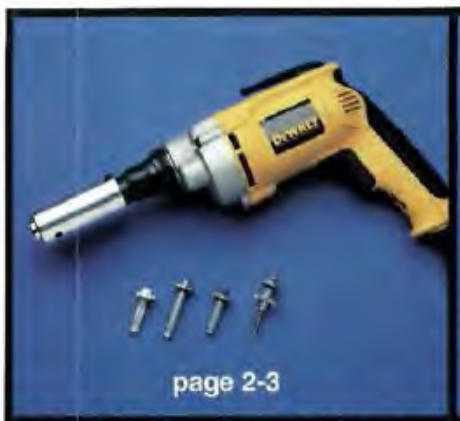

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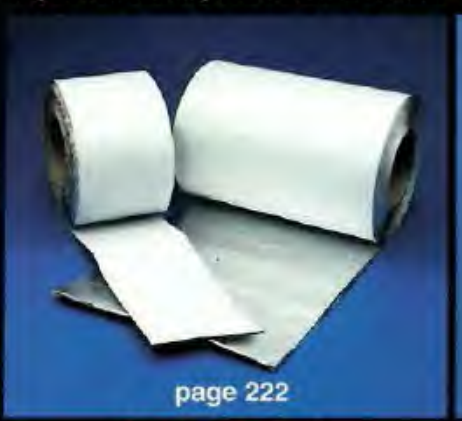

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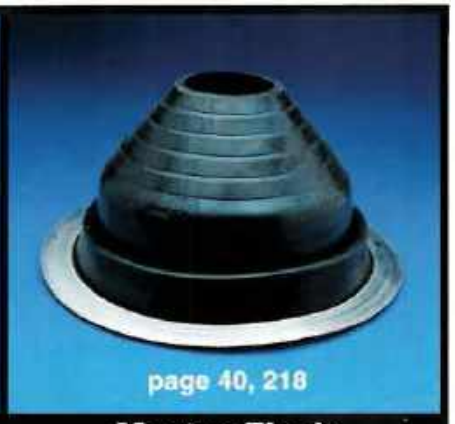

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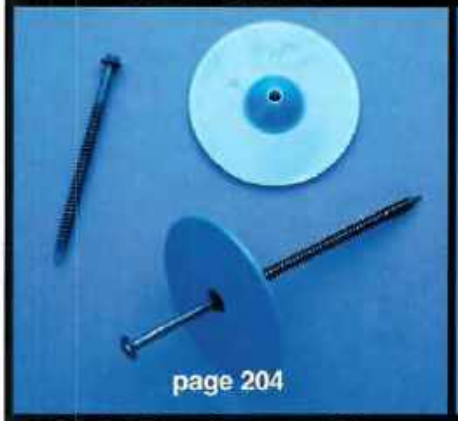

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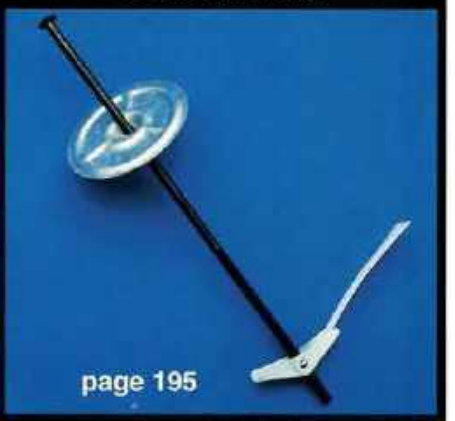

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List of Manufacturers Whose Products We Stock

Albion Engineering Co.
American Allsafe Co.
American Saw & Mfg. Co.
Atlas Bolt & Screw Co.
Band-It-Idex, Inc.
Camcar Division of Textron, Inc.
Celus Fasteners
Construction Fasteners, Inc.
Dalloz Fall Protection
Desa International
Deuer Mfg., Inc.
Dewalt Power Tools
ES Products
Eagle Mfg. Co.
Elco Textron, Inc.
Firestone Building Products Co.
Flexible Products Co.
Geocel Corp.
Gesipa Fasteners U.S.A., Inc.
Gulf States Specialties, Inc.
Gunnebo Fasteners, LLC
Hitachi Koki U.S.A., Ltd.
Humphrey's Textile Products
ITM – International Tool Mfg. Corp.
ITW Buildex
Kett Tool Co.
Kidde Safety Co.
MFM Building Products Corp.
Metabo Corporation
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M.K. Morse Co.
NAC Construction Equipment
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Simplex Nails, Inc.
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Swan Secure Products, Inc.
Tamperproof Screw Co.
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Watson Metal Products Corp.
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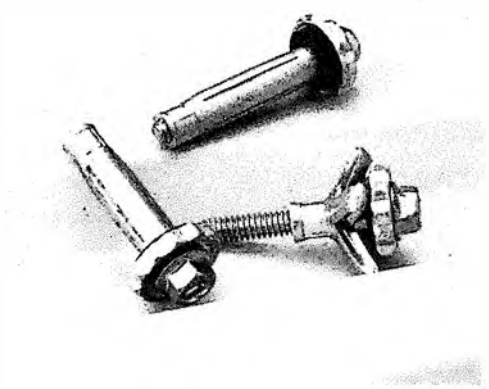
Fab-Lok® fasteners maintain panel integrity in high-stress environments



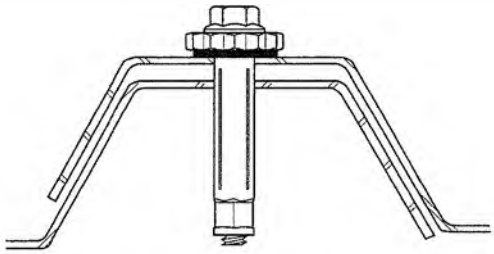
Vibration, either from inside or outside a building, can make ordinary fasteners loosen and back out. Fab-Lok® fasteners are a unique combination of a slotted aluminum sleeve and fastener with the simplicity and strength benefits of both elements.

Features

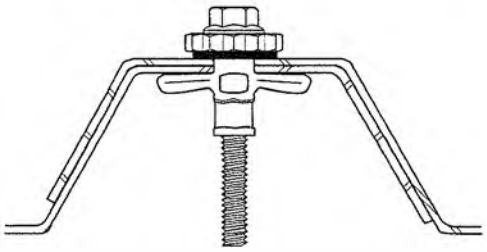
- Hex washer head machine screw assembled to a slotted aluminum sleeve and EPDM sealing washer
- Carbon steel or stainless steel screws
- Installs with power drive equipped with Fab-Lok® holding sleeve
- Also available in TORX PLUS® truss head

Benefits

- Easy and speedy installation
- Resists loosening caused by contraction and expansion or external or internal vibrations
- After tightening, the clamping tines remain secure even if the screw is removed



During Installation



After Installation

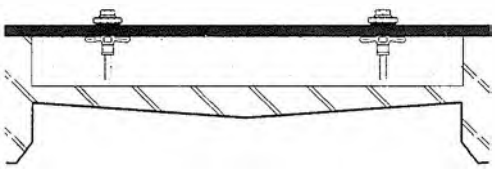
Applications

Fab-Lok fasteners are recommended for any metal-clad building:

- where heavy internal movement occurs from operating machinery
- where excessive external movement occurs from high winds, jet engines, etc.

Fab-Lok fasteners are also excellent for:

- repairing separated panels
- blind hole applications (e.g., attaching insulated panels)



LARGEST FAB-LOK DISTRIBUTOR IN THE U.S.A.

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
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(800) 232-5060
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FAB-LOK Performance Features:

FABCO® FASTENING SYSTEMS

Pull-out tests were performed on a Model L Dillon Dynamometer. FAB-LOK fasteners were installed in single sheet and two sheets of metal and pulled over the tines of the FAB-LOK to determine holding values.

Information provided herein is based upon tests believed to be reliable. Inasmuch as Fabco Fastening Systems has no control over the exact manner in which others may use this information, it does not guarantee the results to be obtained. Nor does the Company make any express or implied warranty of merchantability, or fitness for a particular purpose concerning the effects or results of such use.

FAB-LOK Type	FAC	FAS
Average Shear	1885 lbs.	2400 lbs.

Test conducted with two 3/16" hardened steel plates moving at 0.5 inches per minute.

FAB-LOK Type	FAS
Maximum Residual	900 lbs. 860 lbs.

FAB-LOK Type	H_2O Pressure	Length of Test	Result
FAC-10-4	100 psi	5 Days	No Leaks

Fatigue Tests

Two thicknesses of 26 gage metal fastened with FAB-LOK and tested on 5000 lb. capacity machine at 1500 cycles per minute, sustained 1,776,500 cycles when failure of sheets occurred. Fastener did not fail.

FAB-LOK, fastening 1/8" aluminum plate to 3/16" steel of a railroad freight car, held without failure when the car was subjected to jarring vibration by a Hewitt-Robins Car Shaker at 900 cycles per minute for ten minutes.

Sheet Material	Sheet Thickness	*Failure Lbs.	*Type of Failure
Steel	24 ga.	833	Sheet Split
	20 ga.	858	Sheet Split
	18 ga.	1050	Sheet Split
	16 ga.	1293	Sheet Split
	14 ga.	1400	Fastener Broke

*Failure values are averages of a series of tests on Type FAC.

Sheet Material	Sheet Thickness	*Failure Lbs.	*Type of Failure
Steel	26 ga.	1160	Sheet Split
	20 ga.	1345	Sheet Bent, Fastener Tines Broke
Aluminum	.032"	915	Sheet Split

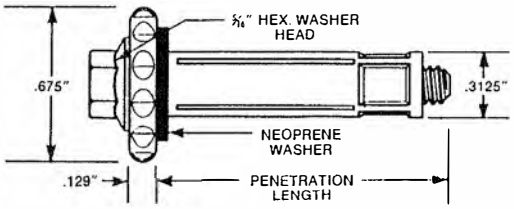
*Double sheet tests are averages of a series of tests on Type FAC

Torque Tests

Sheet Material	FAB-LOK FAS-10-4	#14 Sheet Metal Screw
Strip Test in .032" Aluminum	75 inch-lbs.*	65 inch-lbs.
Strip Test in 26 ga. Steel	75 inch-lbs.*	45 Inch-lbs.
Strip Test in 24 ga. Steel	75 inch-lbs.*	55 Inch-lbs.

*FAB-LOK, even when stripped, retains a residual clamp-up and remains effective. Sheet metal screws are loose when stripped.

FAB-LOK Data



■ Airplane Hangers ■ Steel Mills ■ Warehouses ■ Power Plants ■ Factory "clean rooms" ■ Gymnasium Roofs ■ Manufacturing Plants ■ Pent House Siding, Screening ■ Covered Conveyor Systems ■ Heavy Crane Track Covers ■ High-Rise Apartments & Offices ■ Carports ■ Soffits & Marquees ■ Store Fronts & Fascia ■ Pre-engineered Metal Buildings ■ Covered Walkways ■ Walk-in Coolers ■ Pierside Buildings ■ Steam Generator Covers ■ Cooling Towers

All Carbon and Stainless Steel Components are Cadmium Plated.

Part Number	Screw Material	Rivet/Sleeve Material	Grip* Range	Penetration Length
FAS-10-4	1038 Carbon Steel	5052-H32 Aluminum	.062" to .250"	1.373"
FAC-10-4	305 Stainless Steel	5052-H32 Aluminum		
FAS-10-8	1038 Carbon Steel	5052-H32 Aluminum	.250" to .500"	1.612"
FAC-10-8	305 Stainless Steel	5052-H32 Aluminum		
FAS-10-12	1038 Carbon Steel	5052-H32 Aluminum	.500" to .750"	1.807"
FAC-10-12	305 Stainless Steel	5052-H32 Aluminum		

*Grip Range is total material tickness Fab-Lok will fasten.

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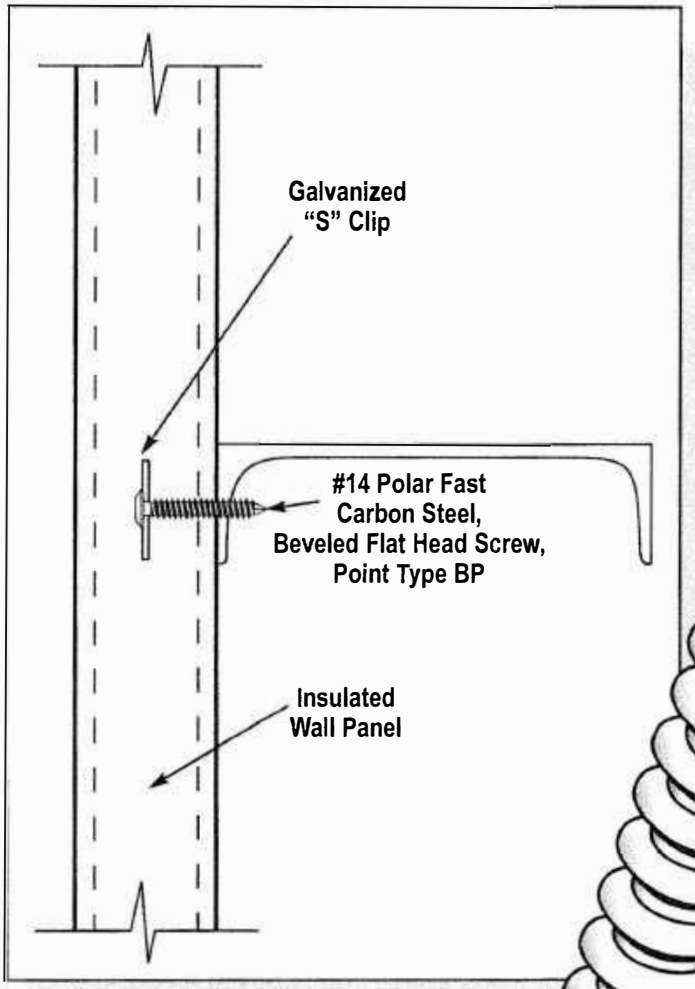
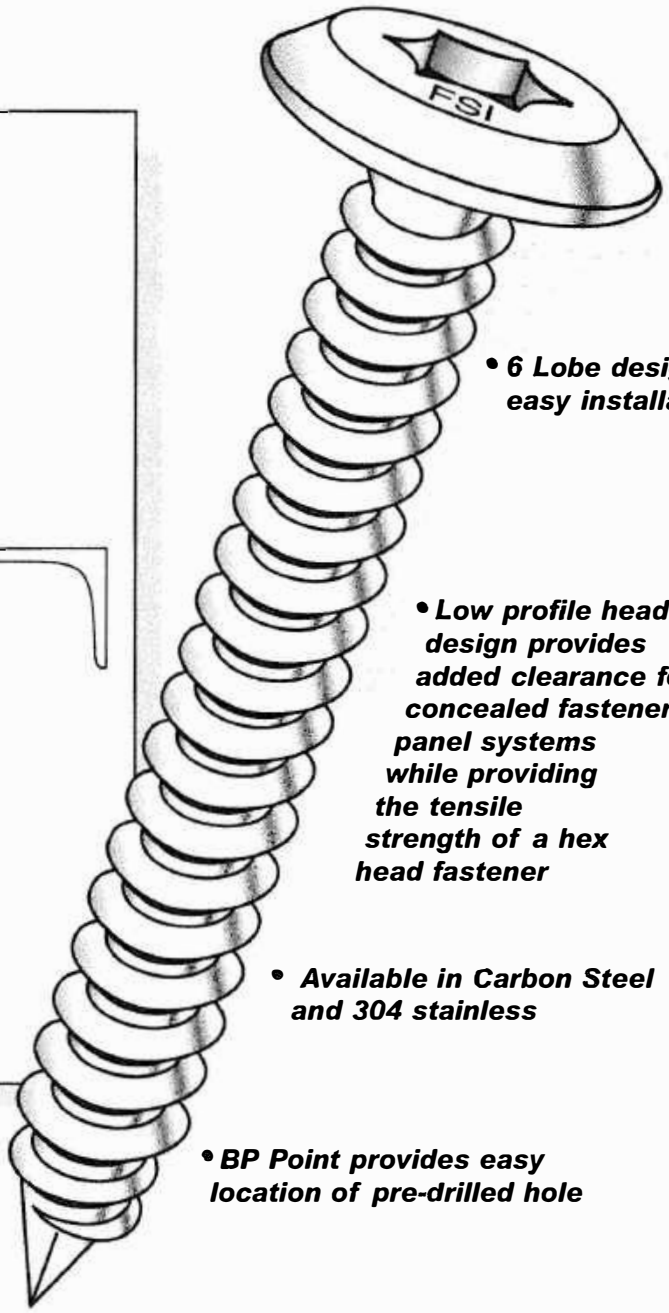
POLARFAST





- *6 Lobe design for easy installation*
- *Low profile head design provides added clearance for concealed fastener panel systems while providing the tensile strength of a hex head fastener*
- *Available in Carbon Steel and 304 stainless*
- *BP Point provides easy location of pre-drilled hole*

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We Put The Fast in Fastener

ALSO AVAILABLE IN SELF DRILLERS

Same day color match - In house painting

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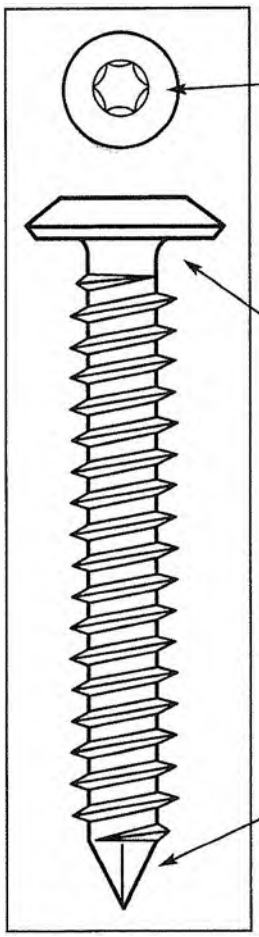
POLARFAST

Engineering Test Reports



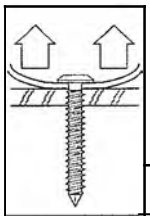
6 Lobe design for easy installation

Low profile head design provides added clearance for concealed fastener panel systems while providing the tensile strength of a hex washer head fastener.

BP Point provides easy location of pre-drilled hole.

Specifications

Diameters: 1/4"
Lengths: 2" through 8"
Points: Type BP
Material: Carbon Steel



Pull-Over Values (Lbs.)

Fastener Dia.	Gauge 14 (.075)	Gauge 16 (.060)
1/4" - 14	4760	3785

Strength Characteristics

for Self-Tapping fasteners

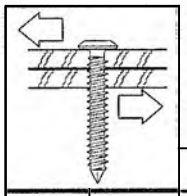
Fastener Size	Minimum Tensile (pounds)	Minimum Torque (inch-pounds)	Fastener Shear (pounds)
1/4-14	3850	150	2600

Suggested Drill Size and Pull-Out Test Results

for Self-Tapping Sheeting Fasteners

To determine the tension required to pull a properly applied screw out of a structural steel member.

Steel Thickness	Point Type	Drill Size	Average Ultimate Pullout
1/4" (.250)	BP	#1 (.221)	3355 lbs.



Shear Values

For Carbon Steel Self-Tapping Fasteners

Size	Point	Gauge 2x20 (.072)	2x18 (.096)	2x16 (.120)	2x14 (.150)	2x12 (.210)	2x1/8 (.250)
1/4-14	Type BP	933	1445	2103	2587	2653	2823

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All test results are based on laboratory tests. **Specific job site conditions should be taken into consideration when specifying the proper fastener.** Because applications vary, we assume no liability for use of this information.

New From Fastener Systems:

Especially Formulated For Insulated Panel Construction

- ☞ ***USDA Accepted***
- ☞ ***Non-Hardening***
- ☞ ***Reduced Webbing***
- ☞ ***Controlled Viscosity***
- ☞ ***Mildew Resistant***
- ☞ ***Compatible with Polystyrene***
- ☞ ***Easy Clean-up***
- ☞ ***Economical***
- ☞ ***Available in 11oz., 30 oz. tubes, and 5-gallons pails.***
- ☞ ***American Made***

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West Chester, PA
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800-232-5060
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Fastener Systems, Inc.

SPECIFICATION DATA

1. PRODUCT NAME

FSI-96 Butyl Rubber Insulated Panel Sealant

2. MANUFACTURER

Fastener Systems, Inc.
640 Snyder Avenue
West Chester, PA 19382
Phone: 610-692-6658
800-232-5060
FAX: 610-692-8151

3. PRODUCT DESCRIPTION

FSI-96 is a formulated for use in insulated metal panel and metal building construction. It has been modified to reduce webbing characteristics, improve extrusion and reduce mildew.

Basic Uses: FSI-96 is typically used for but not limited to:

- Sealing base track to slab
- Polyethylene vapor barrier sheet overlaps
- Panel top cap and panel joints.

Advantages:

- FSI-96 exhibits phenomenal tackiness for permanent bonding to all surfaces.
- Non-drying and non-bleeding.
- Non-hardening.
- Gunnable in all working temperatures.
- Has USDA approval for use in meat and poultry plants.

4. INSTALLATION

Surfaces receiving FSI-96 must be clean, dry and free of dust or other foreign matter. The sealant may be applied with a caulking gun or knife to metal, wood or plastic. Excess smears should be removed as work progresses.

Note: Keep FSI-96 from sight line as it cannot be painted.

Packaging: FSI-96 is available in 11 oz. or 30 oz. cartridges, or 5-gallon pails.

Precautions: Combustible, Keep away from heat and open flame.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF THE REACH OF CHILDREN

6. AVAILABILITY AND COST

FSI-96 is available from Fastener Systems, Inc. For more information, please contact us at 610-692-6658 or 800-232-5060.

7. WARRANTY

Fastener Systems, Inc. warrants its products to be free of defects. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of, any product proven to be defective when installed in accordance with our published recommendations and in applications considered by us as suitable for this product. This warranty is in lieu of any and all other warranties, expressed or implied, and in no case will Fastener Systems, Inc. be liable for incidental or consequential damages.

5. TECHNICAL DATA

FSI-96 Test Requirements	
Aging	Firm but rubbery. Good tack after 50 days conditioned at 160° F.
Accelerated Aging	Firm but rubbery. Excellent adhesion and no significant change in characteristics after 260 hrs. in Weatherometer.
Non-Staining	Non-Staining when used as recommended.
Slump	0.1-.0.2 inches (ASTM D2202)
Weight/gal.	9.8-9.9 lbs. (FTMS 141a-4184-1)
Non-Volatile Solids	88.5-91.5% (OHAUS MDB-6010)
Oil Migration	Does not exude oil when applied between two metal panels bolted together allowing 1/16" seal. Assembly conditioned for one week at 158° F.
Penetration	290-310 1/10 mm (ASTM D 217)
Color	White
Ambient Temperatures	Lowest: -20°F Highest: 150°F

PECORA CORPORATION

SPEC DATA

This Spec Data Sheet conforms to the editorial style prescribed by The Construction Specifications Institute. The manufacturer is responsible for technical accuracy.

1. PRODUCT NAME

DYNATROL® I
One-Part Polyurethane Sealant

2. MANUFACTURER

Pecora Corporation
165 Wambold Road
Harleysville, PA 19438

3. PRODUCT DESCRIPTION

Dynatrol I is a moisture-curing, single-component, non-sag polyurethane sealant that when cured offers the performance of a two-part with the ease of installation of a one-part. It is designed to maintain an effective bond and seal between materials of similar and dissimilar surfaces, porosities and coefficients of expansion.

Basic Uses: Dynatrol I is intended for use in expansion and control joints in precast panels, tilt-up walls, metal curtain walls, copings, window and door perimeters, panel bedding and glazing details.*

Limitations: Dynatrol I should not be used:

- *as a cap, heel or toe bead in certain glazing installations with high-performance glass or plastic.
- in joints less than 1/4" (6 mm) in depth.
- in joints where contact may be made with polysulfide sealants.
- in areas exposed to harsh chemicals.
- on certain architectural paints and finishes without laboratory or field testing.
- in horizontal joints subject to vehicular traffic unless protected by a wearing surface.

Colors: Black, Limestone, Aluminum Stone, Off-White, Bronze, Tan, Beige and Redwood Tan.

Packaging: 10.3 oz. (305 ml) cartridges and two-gallon (7.57 L) pails.

4. TECHNICAL DATA

Applicable Standards: Meets Federal Specification TT-S-00230C, Type II, Class A and ASTM C-920 Type S, Grade NS, Class 25, Use NT, M, A, G and O. U.S.D.A. acceptance for use in meat and poultry plants.

Movement Capability: 25% extension; 25% compression. Joint sealants do not change volume with expansion or compression, only shape; the greater the change in shape, the greater the stress on the sealant

Joint Design: The width of the joint should be a minimum of four (4) times the anticipated movement. The width or depth of the joint should not be less than 1/4" (6 mm). In joints up to 3/8" (9 mm) wide, the depth of the sealant should be equal to the width. In joints wider than 3/8" (9 mm), but not exceeding 1-1/4" (31 mm), the depth should be maintained at 3/8" (9 mm). For joints wider than 1-1/4" (31 mm), please consult Technical Services.

5. INSTALLATION

Surface Preparation: Joint surfaces and backer rod must be dry and free of all contaminants such as oil, grease, wax, dust, corrosion, tar, asphalt, loose aggregate, frost, form-release agents and decorative and protective coatings. Precast panels using form release agents other than polyethylene film must be sandblasted or mechanically abraded and blown or brushed dust free. Glass, metal and other nonporous surfaces must be free of any coatings and wiped clean with solvent.

TEST DATA - DYNATROL I

Cured Sealant Properties	Requirements and Test	Typical Value
100% Modulus	ASTM D412-75	70 psi
Tensile Strength	ASTM D412-75	275 psi
Ultimate Elongation	ASTM D412-75	950%
Hardness, Shore A	ASTM C-920, 15-50	40
Service Temperature Range	-40°F to +180°F (-40°C to 82°C)	
Weep & Sag	ASTM C-920	
	Max. 3/16" (4 mm)	Passes
Weight loss after heat aging	ASTM C-920	
	Max. 10%	Passes
Tack-free time ASTM C-679	Max. 72 hrs.	16 hrs.
Stain & Color change	ASTM C-920	Passes
Durability		
(Bond and cohesion after 7	ASTM C-920	
days water immersion)	Class 25	
Alum., Glass, Mortar	Max. loss 1.5 sq. in.	Passes
Adhesion-in-Peel	ASTM C-920	
(after 7 days immersion)	Min. 5# pli	30 pli
Alum., Glass, Mortar	Max. 25% adhesion loss	Passes*

*with P-75 on mortar

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PECORA CORPORATION

SPECIFICATION DATA

1. PRODUCT NAME
Urexpan® NR-201
(Pool 'n Patio)
One-Part Urethane
Traffic Grade Sealant

2. MANUFACTURER
Pecora Corporation
165 Wambold Road
Harleysville, PA 19438

3. PRODUCT DESCRIPTION
Urexpan NR-201 is a self-leveling, moisture-curing elastomeric polyurethane sealant that when fully cured has the desirable proven properties of a two-part urethane while offering the convenience and ease-of-application of a one-part sealant.

Basic Uses: NR-201 is designed specially for use in small-to-medium width interior or exterior horizontal joints in plazas, malls, patios, swimming pool decks and copings, sidewalks, driveways, parking lots and garages. Cured sealant is not affected by pool chemicals.

Because of the normal slow cure of a one-part and the extra time required for NR-201 to achieve its full strength and abrasion resistance, NR-200 two-part self-leveling urethane sealant is recommended for joints larger than one-inch wide.

However, NR-200 and NR-201 are fully compatible and adhere well to each other without primer; thus, NR-201 is excellent for repairing damaged areas in the Pecora Dynaspan System.

Limitations: NR-201 is not to be used as a structural component or in longitudinal expansion joints that are intended to be used as a constant traveling surface.

Packaging: One-quart (.946 L) cartridges (10 per carton); 2 and 5-gallon (7.57 and 18.9 liter) pails.

Colors: Limestone and Aluminum Stone.

4. TECHNICAL DATA
Applicable Standards: Federal Specification TT-S-230C, Type I, Class A; and ASTM C-920, Type S, Grade P, Class 25, Use T,M,A & O, USDA acceptance for use in meat and poultry processing plants.

5. INSTALLATION
Joints should be designed for a maximum of 25% movement at the narrowest dimension for sealant to perform properly. It is essential to remove all traces of moisture, powder, dirt, dust, grease, oil, and other foreign matter. Methods of removal may include sandblasting, wire brushing, air blasting, or sawcutting. If the joint contains asphalt-impregnated fiberboard, this must be cut back to allow for proper backer rod or barrier beneath the sealant. There must be no contact between the sealant and any amount of asphalt or tar or there will be no adhesion to the substrate.

Joint Backing: A closed-cell polyethylene rod should be used as a backer for the NR-201. Use a size that will compress about 25% when inserted into the joint. In joints too shallow for backer rod, use a polyethylene bondbreaker tape to prevent three-sided adhesion of the sealant.

TEST RESULTS
Conformance of Pecora NR-201 Urexpan to ASTM C-920

TEST	REQUIREMENTS	VALUES
Rheological ASTM C639	Must self-level @ 40°F (5°C)	Passes
Extrusion rate ASTM C603	20 seconds	Passes
Hardness ASTM C661	25-50 Shore A	35
Effects of heat aging ASTM C792	10% max. weight loss No cracking or chalking	7.8% Passes
Tack-free time ASTM C679	72 hrs. max. @ 77°F (25°C), 50% R.H.	24-42 hrs
Stain & color change ASTM C510	Shall not stain white cement mortar. No color change	Passes
Cyclic movement Class 25 ASTM C719	Max. loss 1 1/2 square inches	Alum. passes *Concere passes
Adhesion-in-peel ASTM C794	5 lbs. min.	Alum. 23 psi *Concrete 23 psi
Effects of accelerated weathering ASTM C793	No cracking	Passes *with P-75 Primer

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
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FAX (610) 692-8151

PECORA CORPORATION

Architectural Glazing Sealants

Pecora 895 Silicone
A high-performance, medium-modulus, neutral-curing silicone designed specifically for structural and non-structural glazing of glass, plastic and metal and the recommended weatherseal in such applications. With a ±50% movement capability, 895 is also excellent for sealing expansion and control joints in metal curtain-walls and precast panels and perimeter sealing of windows, doors and other building components. 895 has outstanding unprimed adhesion to glass, reflective glass, anodized aluminum, most plastics, wood, masonry and paints, including fluoropolymer-based paints. It is compatible with most laminated glass, acrylic and polycarbonate glazing sheets.

Pecora 864 Silicone
A high-performance, low-modulus, neutral-curing silicone designed primarily for those dynamic conditions requiring a sealant with exceptional adhesion, a high extension/compression ratio and recovery properties which can withstand long-term movement of ±50%. With primerless adhesion to most common substrates including fluoropolymer-based paints and coatings, plastics, concrete, stone, marble, wood, steel and anodized aluminum, 864 is ideal for sealing expansion and control joints in metal curtainwalls and perimeter sealing of windows, doors and other building components and may also be used as the weatherseal in structural glazing details.

Pecora 890 Silicone
A high-performance, ultra low-modulus, neutral-curing silicone designed primarily for sealing expansion and control joints in precast panels and metal curtainwalls, perimeter sealing of doors and windows and numerous other areas requiring a high-movement sealant. It adheres tenaciously to concrete, stone, masonry, steel, fluoropolymer painted and powder coated aluminum, wood, vinyl and many other plastics, generally without need for a primer, and performs equally well in new or remedial construction.

Pecora 985 Silicone
A high-modulus, neutral-curing silicone, 985 is a two-component structural sealant specially formulated for shop fabrication and structural glazed systems. Pecora provides single-source reliability for demanding structural and non-structural glazing details by offering 985 for factory applications and 895, 896 and 864 for field applications.

Product Selector Quick Reference Chart

	Structural	Weatherseal	Glazing	Expansion & Control	Windows: Bedding-Sealing	Perimeter Caulking/Sealing	Sanitary Sealing	
895	●	●	●	●		●		
864		●		●		●		
890		●		●		●		
985	●		●					
896	●	●	●		●	●		
898							●	USDA
863			●				●	FDA
Sil-Span				●		●		
Other Glazing Products								
AC-20					●	●		
BR-96					●			
BC-158			●		●	●		
Extru-Seal/ Dynaseal			●		●			

Color Matching
Pecora's Color-Flex System provides wide flexibility in matching sealants to substrates. The Color-Flex Designer Guide features 12 Standard and 32 Special colors with major sealants keyed to the colors available in each product. Pecora two-part, non-sag urethanes are available from stock in all Standard and Special colors. Silicones are available from stock only in Standard colors; Specials are available in low minimum quantities.

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PECORA CORPORATION

Pecora Standard Sealant Guide

SEALANT & DESCRIPTION	MAXIMUM MOVEMENT	PRACTICAL JOINT DESIGN	JOINT DIMENSIONS [1] Width - min./max. Depth - min./max.
NR-200 UREXPAN - Two-part, self-leveling polyurethane traffic grade sealant. Uses: Expansion and control joints.	25% Extension 25% Compression	4X Expected Movement	1/4 - N.A. 1/4 - 1/2
NR-201 UREXPAN - One-part, self-leveling, moisture-curing polyurethane traffic grade sealant. Uses: Horizontal joints, pool decks, plazas, sidewalks.	25% Extension 25% Compression	4X Expected Movement	1/4 -1 1/4 - 1/2
UL Classified **DYNATROL II** - Two-part, non-sag, polyurethane rubber sealant. Uses: Expansion & control joints where extreme structural movement is anticipated.	50% Extension 50% Compression	4X Expected Movement	1/4 - 2 1/4 - 1/2
DYNATROL IXL - One part, non-sag, moisture-curing polyurethane rubber sealant. Uses: General caulking & glazing purposes.	25% Extension 25% Compression	4X Expected Movement	1/4 - 1-1/4 1/4 - 3/8
UL Classified **DYNATRED** - Two-part, non-sag traffic grade polyurethane sealant. Uses: V-Joints, expansion and control joints in stadiums, warehouse floors, swimming pools, fountains.	25% Extension 25% Compression	4X Expected Movement	1/4 - 2 1/4 - 1/2
UL Classified **DYNAFLEX** - Two-part, non-sag, security grade polyurethane sealant. Uses: Control joints and window and door perimeters where sealant may be exposed to physical abuse.	12-1/2% Extension 12-1/2% Compression	8X Expected Movement	1/4 - 2 1/4 - 1/2
GC-5 SYNTHACALK - Two-part, non-sag, polysulfide rubber sealant. Uses: Building materials with similar and dissimilar porosities, textures and expansions.	25% Extension 25% Compression	4X Expected Movement	1/4 - 2 1/4 - 1/2
GC-9 SYNTHACALK One-part, non-sag, moisture-curing polysulfide rubber sealant. Uses: General purpose caulking & glazing.	16% Extension 16% Compression	6X Expected Movement	1/4 - 1 1/4 - 1/2
860 SILICONE - One-part, acetoxy silicone sealant. Uses: Glass shop glazing jobs, industrial applications, general purpose sealing. (Not for use on masonry).	25% Extension 25% Compression	4X Expected Movement	1/8 -1 1/8 - 3/8
863 SILICONE - One-part, acetoxy construction silicone. Uses: Glass, ceramics, steel, aluminum and most plastic coated surfaces. (Not for use on masonry).	25% Extension 25% Compression	4X Expected Movement	1/8 - 1 1/8 - 3/8
UL Classified **864 SILICONE** - One-part, neutral-curing, low-modulus, silicone sealant. Uses: Expansion and control joints, in precast panels and metal curtain walls, perimeter sealing.	50% Extension 50% Compression	4X Expected Movement	1/8 -1 1/8 - 3/8
890 SILICONE - One-part, neutral-curing, ultra low-modulus silicone building sealant. Uses: Expansion and control joints in precast panels & metal curtain walls, perimeter sealing, and in EIFS Systems.	100% Extension 50% Compression	4 X Expected Movement	1/8 - 1 1/8 - 3/8
895 SILICONE - One-part, neutral-curing, medium-modulus silicone building sealant. Uses: Structural and non-structural glazing.	50% Extension 50% Compression	4X Expected Movement	1/8 - 1 1/8 - 3/8
898 SILICONE - One-part, very low odor, neutral-curing sanitary sealant Uses: Tub and shower enclosures, sinks, countertops, appliances, etc.	50% Extension 50% Compression	4 X Expected Movement	1/8 - 1 1/8 - 3/8
AC-20 + SILICONE - One-part, non-sag, acrylic latex caulk. Uses: General purpose interior and exterior caulking.	7.5% Extension 7.5% Compression	12X Expected Movement	1/4 - 3/4 1/4 - 3/8

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PECORA CORPORATION

Pecora Standard Sealant Guide

PRIMERS [2] Masonry / Metal	SERVICE TEMPERATURE RANGE	†STOCK COLORS	PACKAGING *Special Order	BACKER RODS (Recommended)	ASTM & FEDERAL SPECIFICATIONS
P-200 P-100	-20 to +180	Limestone & Aluminum Stone	1-1/2 gal. 3 gal.	Closed-cell Polyethylene	ASTM C-920, D-1850 TT-S-227E
P-75 N.R.	-20 to +180	Limestone & Aluminum Stone	30 oz. ctg. *2 gal. *5 gal.	Closed-cell Polyethylene	ASTM C-920, D-1850 TT-S-230C
P-75 P-120	-20 to +180	Color Flex Standards & Specials	1-1/2 gal.	Soft Polyethylene or Denver Foam Polyurethane	ASTM C-920, D-1850 TT-S-227E
P-75 P-120	-20 to +180	Black, Bronze, Limestone, Aluminum Stone, Off-White, Beige, Tan, Natural Stone	10.3 oz. ctg. *2 gal.	Soft Polyethylene or Denver Foam	ASTM C-920 TT-S-230C
P-75 P-120	-20 to +180	Color Flex Standards & Specials	1-1/2 gal.	Closed-cell Polyethylene	ASTM C-920, D-1850 TT-S-227E ASTM C-1247
P-200 P-120	-20 to +180	Color Flex Standards & Specials	1-1/2 gal.	Closed-cell Polyethylene	ASTM C-920 TT-S-227E
P-53 N.R.	-20 to +180	Limestone, Tru-White, Buff, Aluminum Stone, Tan	1-3/4 gal.	Polyethylene or Denver Foam Polyurethane	ASTM C-920 TT-S-227E
P-75 N.R.	-20 to +180	Limestone, Tru-White, Aluminum Stone, Bronze	10.3 oz. ctg. *2 gal., 5 gal.	Denver Foam Polyurethane	ASTM C-920 TT-S-230C
N.A. N.R.	-75 to +400	Black, Bronze, Tru-White, Aluminum & Translucent	10.3 oz. ctg. *5 gal.	Denver Foam Polyurethane	ASTM C-920 TT-S-1543A
N.A. N.R.	-75 to +400	Tru-White & Translucent	10.3 oz. ctg. *5 gal.	Denver Foam Polyurethane	ASTM C-920 TT-S-1543A 19-GP9
P-64 N.R.	-65 to +300	Black, Limestone, Precast, Bronze, Tru-White, Aluminum Stone & Tan	10.3 oz. ctg. 2 gal. *5 gal.	Denver Foam Polyurethane	ASTM C-920 TT-S-1543A 19-GP9
P-64 N.R.	-65 to +300	Black, Limestone, Tru-White, Precast, Bronze, Aluminum Stone	10.3 oz. ctg. 2 gal.	Denver Foam Polyurethane	ASTM C-920 TT-S-1543A 19-GP9
P-64 N.R.	-65 to +300	Black, Bronze, Tru-White, Aluminum Stone & Translucent	10.3 oz. ctg. 2 gal. *5 gal.	Denver Foam Polyurethane	ASTM C-920 TT-S-1543A 19-GP9
P-64 N.R.	-65 to +300	Tru-White & Translucent	10.3 oz. ctg.	Denver Foam Polyurethane	ASTM C-920
N.R. N.R.	0 to +180	See AC-20 Color Card	10.5 oz. ctg. 30 oz. ctg., 5 gal.	Soft Polyethylene or Denver Foam	ASTM C-834

N.A. = Not Applicable **N.R. = Not Required** **1. Ideally, depth should be 1/2 the width without exceeding Min./Max. limits.**
2. For details, refer to Technical Bulletin #51 or consult Technical Service.

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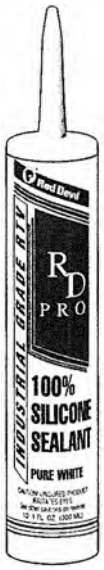
Red Devil®

RD Pro Industrial Grade RTV Silicone Sealant
100% Silicone



Red Devil Industrial Grade 100% Silicone Sealant is a superior high-performance sealing and glazing compound. This acetoxy Silicone forms strong, flexible, durable, weather-resistant seals for joints by providing excellent adhesion to non-porous surfaces. This product is appropriate (except #0816/4I) for use in Federally Inspected Meat and Poultry Plants. It also conforms to Food and Drug Administration requirements. Underwriters Laboratories recognized component.

Meets or exceeds the requirements of TT-S-00230C; TT-S-001543A; C.G.S.B. 19C9-9; Din 18540, Part 2; Mil Spec 46106A; ASTM C920; CEBTP 432.65 140-2; DREX 150031-2; FDA No. 21 CFR 177.2600

Item #	Color	Fluid oz.	UPC code	Case Wt.	Case Cube	Case Size
0816/0I	White	10.1	0-75339-81601-1	11 lbs	.33cu.ft.	8 x 6 x 12
0816/2I	Almond	10.1	0-75339-81621-9	11 lbs	.33cu.ft.	8 x 6 x 12
0816/4I	Bronze	10.1	0-75339-81641-7	11 lbs	.33cu.ft.	8 x 6 x 12
0816/5I	Gray	10.1	0-75339-81651-6	11 lbs	.33cu.ft.	8 x 6 x 12
0816/6I	Black	10.1	0-75339-81661-5	11 lbs	.33cu.ft.	8 x 6 x 12
0826/0I	Clear	10.1	0-75339-82601-0	11 lbs	.33cu.ft.	8 x 6 x 12

ADVANTAGES

- Applies below freezing
- Remains permanently elastic
- 50 year durability
- Quick curing
- Mildew resistant
- High temperature resistance

WHERE TO USE

- Window & door frames
- Baseboards
- Siding
- Countertops/ sinks
- Showers/ tubs
- Gutters
- Plumbing fixtures
- Loose tiles

Typical Properties	#0816/0I, #0816/2I, #0816/4I, #0816/5I, 0816/6I, 0826/0I
Extrusion-viscosity (TT-S-1543A)	45 ± 5 seconds (Semco@ 50 psi)
Weight per gallon	8.7 ± 0.1 lbs.
% Solids (TNV)	99.5 ± 0.5
Toxicity (TT-S-1543A)	Non-toxic when used as directed
Shore A Hardness (D-2240)	22
Color	White, Almond, Bronze, Gray, Black, Clear
Odor	Acetic Acid
Weight Loss (TT-S-1543A)	5% Maximum
Application Temperature Range	10°F to 100°F (-13°C to 38°C)
Tack-free time (TT-S-1543A)	Less than 1 hour
Full cure	24 hours
Paint over time	Not paintable
Flash point	Greater than 200°F (94°C)
Durability (TT-S-1543A)	Complies
Movement Capability	± 25% (Min. 4.1 Safety factor)
Freeze/thaw stability	Passes 3 cycles
Stain resistance (TT-S-1543A)	No color change
Slump resistance	Excellent
Water resistance	Excellent
Crack resistance	Excellent
Chemical resistance	Excellent
Weatherability	Excellent @ 10,000hrs. in Q.U.V. weather tester
Peel strength-glass (TT-S-1543A, 3.5.9)	45 ppi
Peel strength-concrete (TT-S-1543A, 3.5.9)	40 ppi
Percent elongation at break (D-412)	450
Tensile strength at break	240 psi
Tear Strength (D-624: Die B)	30 ppi
Dielectric strength (D-887/D-149)	22 KV/MN
Dielectric constant (D-924/D-150 @ 1 MHZ)	2.7
Dissipation factor (D-924/D-150 @ 1 MHZ)	0.002
Volume Resistivity (X-CM)	2×10^{15}
Coverage	50-55 linear feet (3/8" bead)
Service temperature range	-60°F to 400°F (-51°C to 204°C): 500°F (260°C) Intermittent
Clean-up solvent (before cure)	Mineral Spirits
Shelf life	1 year unopened @ 77°F (25°C)
Storage	Store in a cool, dry area. Avoid temps. over 100°F (38°C).
Standard container	10.1 fl.oz. H.D.P.E. cartridge

Recommendations for use of this product are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where this product is used under conditions beyond our control. Under no circumstances will Red Devil, Inc. or the seller be liable to anyone in excess of the purchase price of this product.

WARRANTY

Red Devil warrants the performance of its products when used as directed and within one year of purchase. User shall determine the suitability of the product for its intended use and assume all risk and liability in connection therewith. Under no circumstance will *Red Devil, Inc.*, or the seller be liable for more than the purchase price of this product.

NOT RECOMMENDED FOR

Marine use • Mirrors • Materials that bleed oils, solvents or plasticisers • Areas below water line • Unpredictably porous surfaces • Heavy traffic-bearing joints

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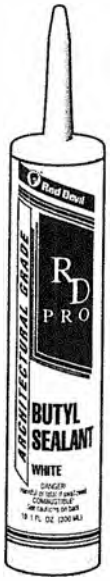
Red Devil®

RD PRO™

ARCHITECTURAL GRADE BUTYL SEALANT



Red Devil Architectural Butyl Sealant is a high quality sealant that is ideal for outdoor jobs requiring a durable, watertight seal. Immediately water resistant and specifically made for use on metal buildings, aluminum gutters, downspouts, and metal windows and doors. Remains permanently flexible and is suitable for below-grade applications.

Meets or exceeds the requirements of U.S. Federal Specifications: Fed Spec. TT-S-001657, Fed Spec. TT-C-00598C, Fed Spec. TT-C- 1796A. This sealant is appropriate for use in Federally Inspected Meat and Poultry Plants.

ADVANTAGES

- Stays permanently flexible
- Resists cracking
- Resists staining
- Resists sagging
- Paintable
- No priming required on porous surfaces
- Usable below grade

WHERE TO USE

- Window & door frames
- Skylights
- Aluminum gutters
- Chimneys/roofs
- Marine applications above water line
- Leaders & siding
- Concrete foundations
- Below-grade areas

WARRANTY

Red Devil warrants the performance of its products when used as directed and within one year of purchase. User shall determine the suitability of the product for its intended use and assume all risk and liability in connection therewith. Under no circumstance will *Red Devil, Inc.*, or the seller be liable for more than the purchase price of this product.

Item #	Color	Fluid oz.	UPC code	Case Wt.	Case Cube	Case Size
0697/OI	White	10.1	0-75339-00274-2	13 lbs	.33cu.ft.	8 x 6 x 12
0697/BI	Bronze	10.1	0-75339-00276-6	13 lbs	.33cu.ft.	8 x 6 x 12
0697/GI	Gray	10.1	0-75339-00275-9	13 lbs	.33cu.ft.	8 x 6 x 12

Packaging: 10.1 (300ml) fluid oz. cartridge 12 per case.

NOT RECOMMENDED FOR
Vinyl or plastic • Fireplaces

PRECAUTIONS
Avoid temperatures in excess of 100°F (38°C)

Typical Properties	#0697/OI, 0697/GI & 0697/BI
Extrusion-viscosity	6 ± 1 grams /15 seconds (Semco @ 30 psi)
Weight per gallon	11.5 ± 0.25 lbs.
% Solids (TNV)	81.0 ± 2%
Color	White, Aluminum Gray & Bronze
Odor	Solvent
Shrinkage	Less than 20%
Application temperature range	Greater than 35° F (2°C)
Tack-free time	2 Hours
Full cure	7 Days
Paint over time (latex & oil-based)	Latex: 12-24 hours Oil - based: After full cure
Flash point	Greater than 100°F (38°C) - Combustible
Freeze/ thaw stability	Passes 3 cycles
Stain resistance	Excellent
Slump resistance	Excellent
Water resistant	Excellent
Clean-up Solvent (before cure)	Mineral Spirits or Paint Thinner
Coverage	50-55 linear feet (3/8" bead)
Service temperature range	-40°F to 225°F (-40C to 107°C)
Shelf life	1 year unopened @ 77°F (25°C)

Recommendations for use of this product are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where this product is used under conditions beyond our control. Under no circumstances will Red Devil, Inc. or the seller be liable to anyone in excess of the purchase price of this product.

F.S.I. HANDLES FULL LINE OF RED DEVIL PRODUCTS
Same day color match - In house painting

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Bolmar Industrial Center
West Chester, PA 19382

(800) 232-5060
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Albion

DISPENSING TOOLS

ALBION 139-3
DELUXE MODEL
for Spouted 1/10 Gallon Cartridges

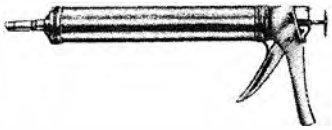
For the professional or the particular "Do-It-Yourselfer." Features Albion's Original ¼" Smooth Square Rod with instant thumb pressure release. Stroke adjusts for hand size. Superior thrust and speed yet comfortable and easy-to-use.

ALBION DL-45-T03
SPECIAL DELUXE MODEL
for Bulk Loading

A 1½ pt. bulk capacity model for thick, stiff material. This rugged tool is equipped with "T" pull and thumb activated pressure release mechanism for ease of operation. It is provided with a "conical ejector" to push-out the last bit of material from the nozzle. Gun is zinc plated and built to provide added years of service.

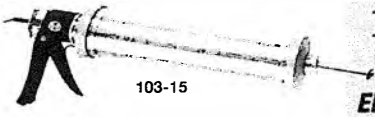
ALBION 365-2
AIR POWERED MODEL
for Spouted Quart Cartridges

A sturdy lightweight all metal tool. It's trigger actuated three-way valve provides superior flow control. Quick acting coarse threads afford easy rear-end loading and a trouble-free air seal.



ALBION DL-45-01
DELUXE MODEL
for Bulk Loading

Holds 1½ pints of material. Heavy duty professional tool for storm window, siding installers and others who want a top quality tool. Develops up to double the thrust of competing guns for the same effort. Stroke adjusts to fit hand. Heavy gauge, zinc plated steel construction.



ALL MODELS
NEW
EPOXY-COATED HANDLES
for Comfort and Corrosion Resistance

1 BULK

Reinforced Construction for high-pressure applications

MODEL	FEATURES	CAPACITY	CHAMBER	WT (lb)
DL-45-T13	General purpose. Dur most popular model.	1½ pint	2"D x 14"L	4
DL-45C-T13	Fast action clip-on cap.	1½ pint	2"D x 14"L	4
DL-59-T13	Increased capacity minimizes reloading. Best price/performance 1 qt model.	1 quart	2"D x 18"L	4½
DL-59C-T13	Fast action clip-on cap.	1 quart	2"D x 18"L	4½
770-10	Full-barrel with reducer, 2" ring cap and cone for confined areas.	1 quart	2⅝"D x 12"L	4½
103-15	JUMBO diameter. High volume, lower density.*	2½ quart	3⅜"D x 16"L	7

* For higher density materials we recommend Albion Air-Powered models.
NOTE: All 2" dia models have conical ejectors to squeeze out *all material* from chamber.
All 2" dia models have quality screw-on type caps with rolled threads for a tighter seal (except DL-45C-T13 and DL-59C-T13).
All 2⅝" dia and 3⅜" dia models have cut threads.
Model 103-15 supplied with 32-35 nozzle.
All 2" dia models supplied with 32-55 nozzle.

ALBION 360-1
AIR POWERED MODEL
for Spouted 8½" Cartridges

For continuous operation on repetitive jobs. Designed for use with standard 8½" cartridges holding 1/10 gallon of material. Swivel handle. Trigger-actuated three-way valve provides excellent flow control.

2 CHUB *"Sausage Pack"*

ALL MODELS
NEW
EPOXY-COATED HANDLES

Built for ROUGH SERVICE

MODEL	FEATURES	CAPACITY	CHAMBER	WT (lb)
DL-24-T14	Solid Teflon piston also accepts bulk load.*	10 oz	2"D x 9"L	3
DL-24-T15	Finger design piston, prevents pinching.	10 oz	2"D x 9"L	3
DL-45-T14	Solid Teflon piston, accepts bulk.* (Holds 10 or 20 oz chub)	20 oz	2"D x 14"L	4
DL-45-T15	Finger design piston. Prevents pinching. (Holds 10 or 20 oz chub)	20 oz	2"D x 14"L	4
DL-59-T15	Finger design piston. (Holds 10 oz, 20 oz, or *future* 30 oz 2" dia chub)	30 oz	2"D x 18"L	4½

* Chub models not recommended for frequent bulk use.
NOTE: All -T15 models supplied with three 235-3 plastic cones.
All other chub models supplied with 32-55 nozzles.

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
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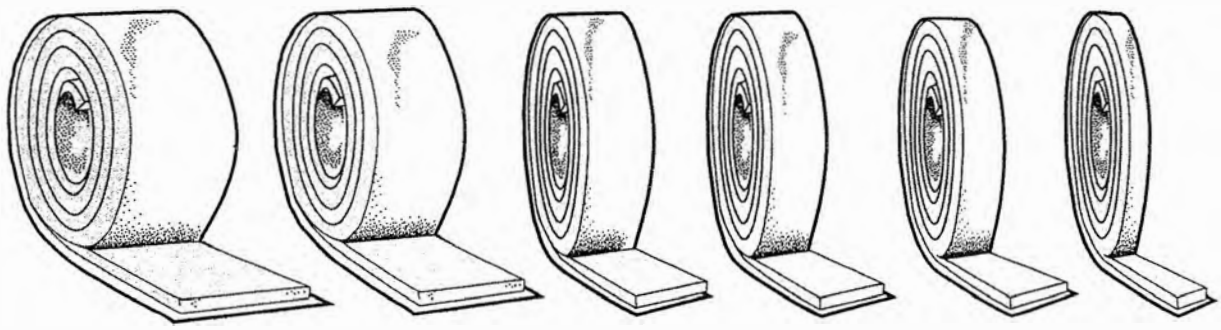
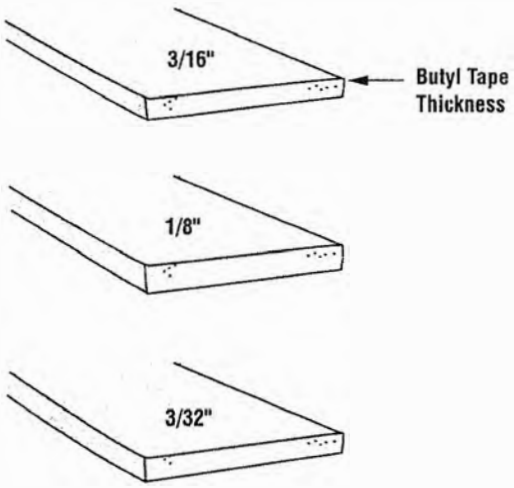
Butyl Sealant / Preformed Caulk

Elastomeric Butyl rubber-based on silicone release paper



(Illustrations not shown to scale.)

Designed for sealing a variety of construction joints, this product meets the requirements of the pre-engineered metal building, the modular housing and window glazing industries and is very resistant to ultraviolet light. Our Butyl Sealant/Preformed Caulk is designed to withstand extreme roof temperatures while offering superior low temperature compressibility and resistance to cold flow. A large selection of tape widths
and thicknesses are available to meet most joint configurations.



Call your Fastener Systems Representative for ordering and application assistance at 1-800-232-5060

ALL SIZES IN STOCK AVAILABLE FOR SAME DAY SHIPPING

We put the *fast* in fasteners

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MB-10A Sealant Tape - Asbestos Free

PRODUCT DESCRIPTION

Uses: MB-10A is an elastomeric butyl rubber-based extruded sealant on silicone release paper, designed for sealing a variety of construction joints. This product meets the critical requirements of the pre-engineered metal building, as well as the modular housing and window glazing industries and is very resistant to ultraviolet light. MB-10A is engineered to withstand extreme roof temperatures while offering superior low temperature compressibility and resistance to cold flow. A wide selection of shapes, sizes and lengths are available to meet most joint configuration. MB-10A is packaged in water-resistant cartons suitable for export shipment.

Composition: Polyisobutylene-Isoprene (butyl rubber), inert fillers, tackifying resins, ultraviolet inhibitors, surfactants. DOES NOT CONTAIN ASBESTOS.

TECHNICAL DATA

See properties and Performance Data. Meets or exceeds the following specifications:

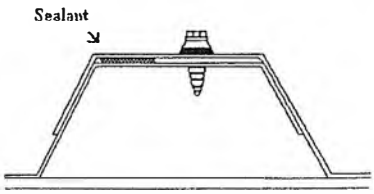
- Military Spec MIL-C-18969B Type II Class B
- Federal Spec TT-C-1796A Type II Class B
- N.A.A.M.M. SS-1C-68
- A.A.M.A. 804.1 AND 807.1
- M.B.M.A. Ice Damming-Five (5) inch static water head test
- F.D.A. Regulations - All new materials used in MB-10A comply with regulations for pressure-sensitive adhesives (#175.125)

INSTALLATION

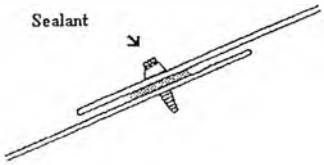
Surface Preparation: All surfaces to be sealed should be free of dust, dirt, oil and moisture before applying sealant.

Working Conditions: Apply in dry conditions above 40°F. Below 40°F atmospheric condensation on surfaces may inhibit adhesion and should be avoided.

Application: Apply MB-10A to surface directly from roll. Press sealant through the silicone release paper with a smooth, even hand motion. NOTE: For metal roofing and siding applications, be certain to place sealant on the "wet" side of the fasteners to prevent wind blown rain from leaking through the fastener holes.



Side Lap



End Lap

PROPERTIES AND PERFORMANCE DATA

TEST METHOD	TEST	TYPICAL RESULTS
GSTM*	Color	Light Gray
ASTM D-217-68	Cone Penetration @77° F, 105g/5 sec, 1/10 mm	55
ASTM C-771-74	Non-Volatiles, % weight @ 212 ± 3°F	99+
ASTM D 792-66	Weight/gallon @77°F, lbs.	12.5
ASTM D 792-66	Specific Gravity @ 77°F	1.55
GSTM 11*	Service Temperature - Range, °F	-60 to 275°F
GSTM 16*	Sag (Three weeks @ 160°F)	None
ASTM C-765-73	Cold Temperature Flexibility (1/2 "Mandrel Bend @ -60°F)	No cracking or loss of Adhesion
GSTM 9*	Webbing and Elongation: @ 77°F @ 32°F	 1,050% + 3,050% +
GSTM 1*	Adhesive/Cohesive Failure Mode @ 77°F	3% / 97%
ASTM D-897-72	Tensile Strength, p.s.i. @ 77°F	25
ASTM D-750-68	Weatherability - 1,000 hours in Q.U.V. Weatherometer (Cycle of 8 hours U.V. @ 150°F; then 4 hours of condensation @ 104°F)	No discoloration, cracking, crazing or loss of adhesion

Test Methods available upon request.

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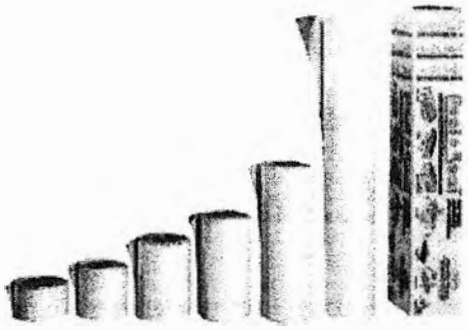
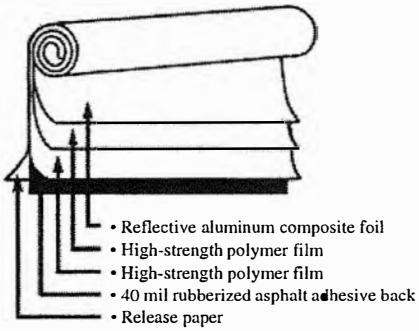
Peel & Seal Self-Stick Aluminum

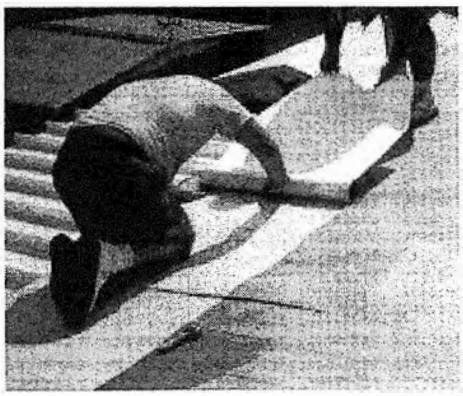
- **Aluminumized surface reflects heat, reduces rooftop temperature as much as 22.5%, cuts cooling costs, is self-cleaning and resists UV radiation.**
- **Extra durable, multi-layers resists abrasion, self-seals around most punctures, needs no additional coating.**
- **Lightweight, doesn't reduce the load bearing capacity of the roof.**
- **Cold applied, no fire hazard from hot tar kettles or torches.**
- **Stretches to allow for building movement, won't crack or dry out, impervious to fungus, algae or bacteria.**



Peel & Seal is packaged 100 square feet per carton and is available in widths of 4", 6", 9", 12", 18" and 36".

Available in Aluminum or White Coated Surface





Peel off the release paper, press the material into place. It's that simple!

The perfect solution for low slope and dozens of other roofing problems, Peel & Seal installs using only a utility knife. You can forget big crews, hot kettles, torches, adhesives & fasteners. No coating is necessary. Peel & Seal adheres to most surfaces and saves time, labor and money. It won't crack or dry out.

Peel & Seal replaces old-style rolled roofing products. It's rugged, lightweight and reflects heat... and it seals around most punctures. It's quick and economical to install and is a perfect answer to roofing, waterproofing, patching and repair... any job requiring tough, weatherproof protection.

IDEAL FOR MANY COLD STORAGE APPLICATIONS

Over 3 million painted parts in stock ready for same day shipping

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Peel & Seal Self-Stick Aluminum

Why Peel & Seal is the fastest easiest and most economical solution to your waterproofing problems.

What is Peel & Seal?

It starts with a reflective aluminum foil. Under the foil are rugged, waterproof, polymer films. Laminated beneath the films is a thick layer of rubberized asphalt. The asphalt compound adheres to most surfaces and seals around most punctures, forming a protective waterproof barrier. Finally, a high-quality release paper is applied to shield the adhesive surface until the **Peel & Seal** is installed.

Why an Aluminum Foil?

The high density aluminum foil used in the manufacture of **Peel & Seal** reflects sunlight and reduces rooftop temperatures by an estimated 22.5%. This membrane may be exposed to direct sunlight without the use of coating, which saves time, labor and money.

Where should I use Peel & Seal?

Use this product anywhere you want a fast, dependable waterproofing barrier. Applying waterproofing materials is generally a messy, complicated process requiring much labor, equipment and skill. **Peel & Seal** simplifies the operation– you just peel off the release paper and apply the waterproof sheet to any prepared surface. **Peel & Seal** may be used for roofing, waterproofing, patching & repair or any job requiring tough, weatherproof protection.

How is it installed?

Simple... align sheet and apply to clean, dry surface by removing the release paper as the material is carefully unrolled and pressed into place. **Peel & Seal** bonds to itself at overlaps. No heat, glues, tapes, fasteners or special tools are required... you need only a pair of scissors or utility knife. Some surfaces will require cleaning and/or priming.

Can Peel & Seal be used for repair work?

It's an excellent choice for patching smooth asphalt roofs. The old roof should be cleaned and primed as necessary, any blisters or irregularities repaired to present a smooth surface and the **Peel & Seal** applied to leaking areas. A minimum of 12" of solid contact should be allowed between the edge of the **Peel & Seal** and any known leaks. A bead of caulk will help to protect exposed edges. Narrow rolls are available for repairs and flashing.

Product Description

Peel & Seal is a self-adhering waterproofing material with a reflective aluminum surface. The sheet features multiple laminations of special aluminum foil, high density polymer films and a thick layer of rubberized asphalt waterproofing compound. The aluminum foil reflects the sun to lower rooftop temperature and reduce energy costs. The films stabilize and reinforce the sheet and act as the first line of defense against leaks. The rubberized asphalt seals tightly at the overlaps and around most punctures, and forms a long-lasting waterproof barrier. **Peel & Seal** requires no coating.

Special Features

Peel & Seal offers the contractor and property owner these extra features:

- Eliminates leaks– multiple layers of protection seal out water. Rubberized asphalt won't crack or dry.
- Sticks to most surfaces– **Peel & Seal** sticks to roof deck for ease of application and to eliminate movement of water under the membrane.
- No Coating Necessary– with **Peel & Seal** you simply peel off the release paper, apply to any prepared surface... and the job is done!
- Easy & Fast to Install– **Peel & Seal** eliminates the need for big crews, hot kettles, torches, adhesives, fasteners, etc. Following the simple instructions anyone can install Peel & Seal using only scissors.

(See complete instructions in box before applying.)

General:

Peel & Seal is a multipurpose waterproofing material. Apply **Peel & Seal** in fair weather at temperatures above 60°F. A minimum slope of 1/2" per foot is required. Not designed for ponding areas. NO TOP COATING IS REQUIRED. Storage: Keep rolls dry, protect from sunlight.

Surface Preparation:

Peel & Seal may be applied directly to roof decks including wood, metal, masonry and existing smooth asphalt roofs. Because of the unpredictable condition of existing roofs, we cannot guarantee the performance of **Peel & Seal** over mineral surfaces. The surface to receive **Peel & Seal** must be clean, dry and free from oil, grease or debris– prime where necessary.

Installation:

Peel & Seal is easily installed by removing the release paper and pressing the aluminized membrane into place. **Peel & Seal** can be cut to fit using scissors or razor knife. **Peel & Seal** adheres to the deck and to itself when overlapped. When overlapping the product, 3" side laps and 6" end laps are required. Align sheet. Peel off first 2' of release paper and adhere sheet to the substrate being careful to maintain proper alignment. Carefully unroll, peeling the release paper and pressing into place as you go. Small wrinkles are not desirable, but can be smoothed out and will not effect the roof's performance. Large ones should be avoided and repaired by cutting and patching before the next roll is applied.

Typical Properties

Roll Size*	36" x 33.5'
Roll Weight	32 lbs.
Thickness	45 mil
Shipping	30 rolls/pallet

•Also 4", 6", 9", 12" and 18" rolls.

Warning: Peel & Seal is slippery. Use caution when walking or standing on the product. **Peel & Seal** is reflective and can contribute to sunburn. Protect skin and eyes.

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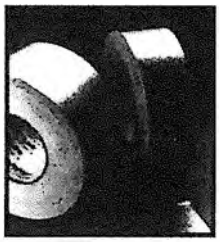
VentureTape®

Insulation Tapes

Waterproof Cloth Duct Tape

1500



A high strength premium quality polyethylene coated cotton cloth tape coated with an aggressive high tack natural rubber adhesive system. Adheres well to sheet metal ducts and conforms well to corners and irregular surfaces. Will not curl when unwound, tears readily.

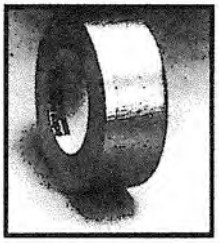
Silver, Black and White available.

Primary use: Vapor sealing sheet metal ducts; general purpose, heavy duty service.

Thickness: 12 mils (300 μ)
Adhesion: 34 oz./inch width (9.6 N/2.5 cm)
Elongation: 18%
Tensile: 22 lbs./inch width (99.6 N/2.5 cm)
Widths: Silver 1, 1½, 2, 3 inches (2.5, 3.8, 5.1, 7.6 cm)
Black 2 inches (5.1 cm)
White 1, 1½, 2 inches (2.5, 3.8, 5.1 cm)
Length: 60 yards (55 m) on 3 inch (7.6 cm) core

Utility Grade Coated Cloth Duct Tape

1501



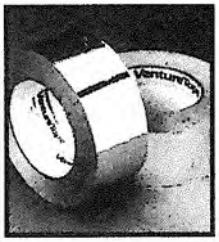
An economical, polyethylene coated cotton cloth duct tape with a natural rubber, pressure sensitive adhesive system. High tack, adheres well to metal surfaces, conforms well to corners and irregular surfaces. Silver color.

Primary use: Sealing sheet metal ducts and general purpose industrial applications.

Thickness: 10 mils (250 μ)
Adhesion: 50 oz./inch width (14.2 N/2.5 cm)
Elongation: 10%
Tensile: 25 lbs./inch width (113.2 N/2.5 cm)
Widths: 2 inches (5.1 cm)
Length: 60 yards (55 m) on 3 inch (7.6 cm) core

1 mil (25 micron) Aluminum Foil Tape

1513CW



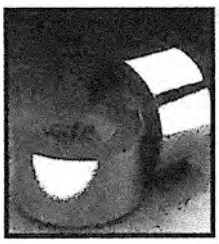
A high strength 1 mil (25 μ) aluminum foil tape coated with Venture's C.W. cold weather acrylic adhesive. High quick stick at normal temperatures; excellent performance at low temperatures and high humidity.

Primary use: Vapor sealing for fiberglass ductboard, sheet metal ducts and FSK systems.

Thickness: 2.3 mils (58 μ) (exclusive of liner)
Adhesion: 64 oz./inch width (18.1 N/2.5 cm)
Elongation: 7%
Tensile: 13 lbs./inch width (58.9 N/2.5 cm)
Widths: 2, 2½, 3, 4 inches (5.1, 6.4, 7.6, 10.2 cm)
Length: 50 yards (46 m) on 3 inch (7.6 cm) core

High Tack 1.5 mil (38 micron) Aluminum Foil Tape

1521CW



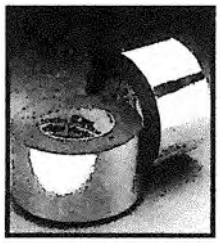
A special 1.5 mil (38 μ) high strength Aluminum Foil Tape with a higher tack, special C.W. cold weather acrylic adhesive system. This formulation combines extremely high quick stick at normal temperatures with superior performance at low temperatures and high humidity.

Primary use: Thinner material allows for superior conformability in vapor sealing of fiberglass ductboard and FSK systems.

Thickness: 3.0 mils (75 μ) (exclusive of liner)
Adhesion: 98 oz./inch width (27.7 N/2.5 cm)
Elongation: 4.4%
Tensile: 21 lbs./inch width (95 N/2.5 cm)
Widths: 2, 2½, 3, 4 inches (5.1, 6.4, 7.6, 10.2 cm)
Lengths: 50, 100 (46, 91 m) yards on 3 inch (7.6 cm) core
U.S. Coast Guard Approval No: 164.012/120/0 for interior finish.
Conforms to British Standard BS 476: Part 7, Class 1; Part 6, Class 0.

2 mil (50 micron) Aluminum Foil Tape

1520CW^NT



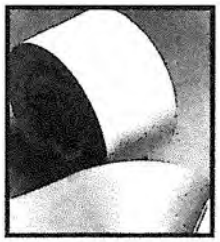
A 2 mil (50 μ) high strength Aluminum Foil coated with special cold weather acrylic adhesive system that combines superior quick stick at normal temperatures with superior low temperature performance at freezing (32°F or 0°C). The ultimate in cold weather tapes. Recommended for use at normal and high temperatures also.

Primary use: Improved vapor sealing of fiberglass ductboard ductwrap and FSK systems.

Thickness: 3.5 mils (88 μ) (exclusive of liner)
Adhesion: 96 oz./inch width (27.1 N/2.5 cm)
Elongation: 4.4%
Tensile: 27 lbs./inch width (122 N/2.5 cm)
Widths: 2, 2½, 3, 4 inches (5.1, 6.4, 7.6, 10.2 cm)
Lengths: 50, 100 (46, 91 m) yards on 3 inch (7.6 cm) core
U.S. Coast Guard Approval No: 164.012/120/0 for interior finish.
Conforms to British Standard BS 476: Part 7, Class 1; Part 6, Class 0.

1.5 mil (38 micron) White Aluminum Foil Tape

1511CW



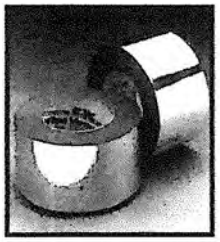
A 1.5 mil (38 μ) white aluminum foil coated with an aggressive cold weather acrylic adhesive system which offers superior quick stick at below zero and elevated temperatures. Zero temper, dead soft aluminum foil conforms well to smooth and embossed surfaces.

Primary use: Matching lap joint and vapor seal for both smooth and satin foil faced board. Matches Thermax® and Atlas® products.

Thickness: 3.5 mils (88 μ) (exclusive of liner)
Adhesion: 100 oz./inch width (28.3 N/2.5 cm)
Elongation: 5%
Tensile: 34 lbs./inch width (154 N/2.5 cm)
Widths: 2, 3, 4, 5 inches (5.1, 7.6, 10.2, 12.7 cm)
Length: 50 yards (46 m) on 3 inch (7.6 cm) core

3 mil (75 micron) Aluminum Foil Duct Tape

1519CW



High strength, 3 mil (75 μ) aluminum foil tape coated with 2 mils (50 μ) of an aggressive, high temperature acrylic adhesive system. Conforms well to corners and irregular surfaces. Superior adhesion to both fibrous and metal ducts, providing an excellent vapor seal. Meets Mil-T-23397B.

Primary use: Moisture and vapor barrier for duct systems. For roofing applications, flashing, joints and insulation. Used as a protective layer during welding.

Thickness: 5.0 mils (125 μ) (exclusive of liner)
Adhesion: 96 oz./inch width (27.1 N/2.5 cm)
Elongation: 16%
Tensile: 27.8 lbs./inch width (125.9 N/2.5 cm)
Widths: 2, 2½, 3, 4 inches (5.1, 6.4, 7.6, 10.2 cm)
Length: 50 yards (46 m) on 3 inch (7.6 cm) core

Clear Polyethylene Tape

921CW

A 5 mil (125 μ) thin, strong and conformable transparent polyethylene film tape with a very high shear, UV resistant cold weather acrylic adhesive with excellent holding properties and cold stick. Excellent resistance to moisture, acids, chemicals, alkalis, oils, abrasion and weathering.

Primary use: Weather seal for applying plastic storm windows, door jams, window casings in low temperature environment. Also used for film can sealing, ink container sealing and splicing polyethylene film.

Thickness: 6.2 mils (157 μ)
Adhesion: 75 oz./inch width (21.2 N/2.5 cm)
Elongation: 250%
Tensile: 12.5 lbs./inch width (56.6 N/2.5 cm)
Sizes: 1" x 45 feet, 2" x 25 feet, 2" x 108 feet
(2.5 cm x 13.7 m, 5.1 cm x 7.6 m, 5.1 cm x 33 m)

Fastener Systems, Inc.

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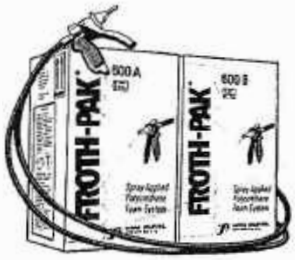
	Density	Theoretical Yield*	Contents	Stock Number	Ordering Information
FROTH-PAK 180	1.0	310 Board Feet 25.8 Cubic Feet	1 A cylinder 1 B cylinder 7½ ft. gun hose assembly (GHA) Assorted nozzles 1 wrench 1 petroleum jelly packet	30FK134	36 lbs./unit 30 units/pallet
	1.75 1.75 Slow Rise 1.75 25FS/MSHA	200 Board Feet 16.6 Cubic Feet		30FK130 30FK132 30FK182	
	2.75	115 Board Feet 9.6 Cubic Feet		30FK135	
	4.0	60 Board Feet 5 Cubic Feet		30FK224	
FROTH-PAK 600 	1.0	1050 Board Feet 87.5 Cubic Feet	1 A cylinder 1 B cylinder 15 ft. gun hose assembly (GHA) Assorted nozzles 1 wrench 1 petroleum jelly packet	30FK218	110 lbs./set 12 sets/pallet
	1.75 1.75 Slow Rise 1.75 25FS/MSHA	600 Board Feet 50 Cubic Feet		30FK214 30FK216 30FK460	
	2.75	400 Board Feet 33.3 Cubic Feet		30FK219	
	4.0	210 Board Feet 17.5 Cubic Feet		30FK225	

FROTH-PAK Nozzles (now Anti-Crossover)

Backcap Color	*Nozzle Type*	*Spray Pattern*	*Stock #*
Yellow	Caulking	Bead, ultra fine coverage	30A2120
White	NS	Spray, small area coverage	30A2021
White	Fan	Fan spray, wide area coverage, spray paint finish	30A2221
Gray	NS	Spray, small area coverage, medium output	30A2022
Black	Pour	Pour, high volume filling of large cavities	30A2323

Other nozzles available – please call for information

FROTH-PAK Accessories

Item	*Stock #*
5½ ft. gun hose assembly	3060T
7½ ft. gun hose assembly	300050
7½ ft. gun hose assembly with nozzles	30A301
15 ft. gun hose assembly	300043
15 ft. gun hose assembly with nozzles	30A302
Insta-Flo 12 Dispenser (Refill kits)	30A347

LARGEST DISTRIBUTOR OF INSTA-FOAM 180 FROTH PAK IN THE U.S.

Fastener Systems, Inc.

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	Density	Theoretical Yield*	Contents	Stock Number	Ordering Information
FROTH-PAK 12	1.75	12 Board Feet 1 Cubic Foot	*12 Kits, each contain:* 1 A can 1 B can 1 thumb controlled spray dispenser with hoses 2 spray nozzles	30FK110	12 units/case 37 lbs./case 12 cases/pallet
FROTH-PAK 12 Refill	1.75	12 Board Feet 1 Cubic Foot	*12 Kits, each contain:* 1 A can 1 B can 2 spray nozzles per kit	30FK111	12 units/case 34 lbs./case 24 cases/pallet
			Insta-Flo Dispenser	30A347	1 each
			Starter Kit Case: 5 A cans 5 B cans 1 Insta–Flo 12 dispenser 10 spray nozzles	30FK112	5 units/case 14 lbs./case 32 cases/pallet
FROTH-PAK 110	1.75	110 Board Feet 9.2 Cubic Feet	1 A cylinder 1 B cylinder Spray nozzles	30FK137	28 lbs./unit 36 units/pallet
	1.75 25FS/MSHA	110 Board Feet 9.2 Cubic Feet	$5\frac{1}{2}$ ft. gun hose assembly (GHA) 1 wrench 1 petroleum jelly packet	30FK195	

* The theoretical yield has become an industry standard for identifying certain sizes of two component kits. Theoretical yield would be perfect laboratory conditions, without taking into account the loss of blowing agent or the variations in application methods and types.

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INSTA-FOAM

INSTA-SEAL POLYURETHANE FOAM SEALANT & ADHESIVE

3 MYTHS ABOUT FILLING AND SEALING GAPS AND HOLES.

1. STUFFING FIBERGLASS AROUND GAPS AND HOLES IS EFFECTIVE IN CONTROLLING AIR LEAKAGE.

Wrong. Yet, that's what most people think! This technique is ineffective in controlling air leakage because fiberglass is porous and has no sealing qualities. In fact, fiberglass insulation is the worst air sealing material available.

2. CAULK IS THE MOST EFFECTIVE PRODUCT TO SEAL GAPS AND HOLES.

Wrong. Insta-Seal has greater expansion properties than caulk or any other sealant products. Unlike caulks, Insta-Seal expands to fill a gap or hole. When cured, the foam assumes the shape of the cavity. It does not shrink or crack and will retain its sealing properties permanently. Insta-Seal is much more economical than caulk. One 24 oz. can of Insta-Seal yields about 8 gallons of cured foam or about 40 tubes of caulk. That's 1/10th the cost of caulk!

3. THERE IS NO NEED TO FILL AND SEAL HOLES AND GAPS IN AREAS WHERE THEY CANNOT BE SEEN.

Wrong again. Today's home buyers are smarter and better educated about energy conservation. Air leakage in homes is the single biggest cause of energy loss. It accounts for roughly 30% to 50% of the energy used in most houses. According to a survey in *Professional Builder* magazine, over 90% of home buyers would spend $600 or more for an energy tight home. With Insta-Seal, builders or contractors can add extra value to the homes they build at very little expense.

WIDEST RANGE OF PRODUCT SIZES AND DISPENSERS

PRODUCT AND DISPENSER GUIDE	Insta-Seal 12 oz.	Insta-Seal 3x 12 / 24 oz.	Insta-Seal Eco-Blend 12 oz.	Insta-Seal 3x Eco-Blend 12 / 20 oz.	Insta-Seal Gun System 24 oz.	Insta-Pro Foam System 24 oz.	Insta-Seal 10 Lb.	Insta-Seal 16 Lb.	Insta-Clean 12 oz.
Straw	▲	▲	▲	▲					
Brass Nozzle							▲	▲	
NBS Gun					▲		▲ (With adapter)	▲ (With adapter)	▲
Insta-Pro Gun (can)						▲			
Insta-Pro Gun (hose)							▲	▲	
BLOWING AGENT	HCFC	HCFC	HYDRO-CARBON	HYDRO-CARBON	HCFC	HCFC	HCFC	HCFC	
YIELD*	250	250/500	250	275/460	650	650	3,500-4,300	5,600-6,900	n/a

CLASSIFICATIONS, BUILDING CODES, AND STANDARDS	
	• ASHRAE 90-75 • BOCA • CCMC #08239-R • HUD Section 507-6
	• ICBO • SBCCI • U.L. Classified Caulking and Sealants R-13655

OTHER GREAT PRODUCTS FROM INSTA-FOAM

FROTH-PAK®
Two component expanding polyurethane spray foam for void filling, insulation, and air sealing.

INSTA-STIK®
Single component polyurethane roofing adhesive for attaching insulation boards to commercial roof deck.

ROOFPAK®
Two component portable polyurethane foam kit used as a temporary roof tie-off to prevent water damage.

INSTA-GRIP®
Single component moisture and chemical resistant polyurethane construction adhesive.

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INSTA-FOAM

INSTA-SEAL POLYURETHANE FOAM SEALANT & ADHESIVE

HOW DOES INSTA-SEAL COMPARE TO OTHER SEALANTS?

◆ **GREATER SEALING PROPERTIES.**

Unlike caulks and other sealants, Insta-Seal expands to fill the gap or hole. When cured, the foam assumes the shape of the cavity and forms an airtight seal. It does not shrink and will retain its sealing properties permanently.

Foam expands around pipe to form an airtight seal.

◆ **STRONGER ADHESION QUALITIES.**

Insta-Seal sticks to most surfaces including wood, metal, masonry, glass, and most plastics. It is also compatible with polystyrene and polyurethane foam insulation board.

◆ **HIGHER INSULATION VALUE.**

Caulk has no insulating properties whereas Insta-Seal provides both insulation and sealant benefits.

◆ **SUPERIOR ECONOMY.**

Insta-Seal is much more economical than caulk. One 24 oz. can of Insta-Seal yields about 8 gallons of cured foam. This is equivalent to about **40 tubes (11 oz.) of caulk** or about **1/10 the cost of caulk**.

◆ **LONGER LIFE.**

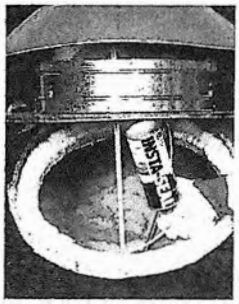
Insta-Seal uses no solvent. It will not dry out, crack or shrink. Because it is semi-rigid when cured, it withstands expansion and contraction, without pulling away as conventional seals do.

◆ PLUMBING

◆ ELECTRICAL

◆ PEST CONTROL

◆ HVAC



◆ JOINTS & GAPS

◆ WINDOWS & DOORS

WHAT IS INSTA-SEAL®?

Insta-Seal is a single component polyurethane foam used as an insulating sealant and for adhesive applications.

WHY USE INSTA-SEAL?

◆ **CREATES A DURABLE AIRTIGHT SEAL**

- Stops air infiltration.
- Minimizes outdoor noise.
- Prevents pest infiltration.
- Prohibits transmission of odor.
- Reduces risk of condensation, moisture damage, and ice build-up.
- Minimizes allergy irritants by keeping out pollen, outside dirt and dust.

◆ **SAVES ENERGY DOLLARS**

- Reduces air conditioning costs.
- Decreases heating costs.
- Provides excellent R-Value.

◆ **ENHANCES OCCUPANT COMFORT**

- Helps maintain a comfortable humidity level.
- Stabilizes temperature inside building by eliminating cold drafts in winter and keeping warm air outside in summer.

WHAT IS AIR INFILTRATION/ EXFILTRATION?

Air infiltration/exfiltration is the uncontrolled leakage of air through cracks and gaps in walls of buildings—around doors, windows, electrical outlets, pipes, vents, baseboards, wall and ceiling joints, etc.

The average house has a multitude of hidden cracks and holes. Add them up and it's like having a *four square foot opening* letting air leak in and out of a home.

The U.S. Department of Energy estimates that air leakage through cracks and gaps in homes is the single biggest cause of residential heating and cooling loss. It accounts for approximately 30% to 50% of the energy used in most homes.

Same day color match - In house painting

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POLY SHEETING
Plastic Construction Film

PRODUCT CODE	WIDTH X LENGTH	OPTIONS	SQ FT/ ROLL	ROLL WEIGHT	ROLLS/ PALLET	NET PLT WEIGHT
.7 MIL						
07509	9' x 400'	C	3600	12.0	99	1188
07512	12' x 400'	C	4800	16.0	80	1280
07591000	9' x 1000'	C	9000	30.1	36	1084
1 MIL						
109	9' x 400'	C, PF	3600	17.2	80	1376
112	12' x 400'	C	4800	22.9	64	1466
1.2 MIL						
1220	20' x 200'	PF	4000	22.9	56	1282
1.5 MIL						
15161	16' x 100'	C	1600	11.4	96	1094
15100	8'4" x 200'	C	1667	11.9	108	1285
1512	12' x 200'	C	2400	17.2	80	1376
1520	20' x 200'	B,C	4000	28.7	56	1607
2 MIL						
SW2050	4'2" x 200'	C	833	7.97	96	765
2100	8'4" x 200'	C	1667	15.9	96	1526
212	12' x 200'	C	2400	22.9	64	1466
220	20' x 200'	C	4000	38.2	35	1337
2.25 MIL						
22503	3' x 100'	B (4/cs)	300	3.23	64	825
3 MIL						
320-50	20' x 50'	C	1000	14.3	80	1144
308	8' x 100'	C	800	11.4	108	1231
320	20' x 100'	B,C	2000	28.7	42	1205
4 MIL						
403-50	3' x 50'	B,C (12/cs)	150	2.87	384	1102
406-50	6' x 50'	B,C (6/cs)	300	5.74	144	827
408-50	8' x 50'	B,C	400	7.65	176	1346
410-50	10' x 50'	B,C	500	9.57	126	1206
412-50	12' x 50'	B,C	600	11.4	72	821
416-50	16' x 50'	C	800	15.3	96	1469
420-50	20' x 50'	B,C	1000	19.1	80	1528
SW403	3' x 100'	C	300	5.74	96	551
403	3' x 100'	B,C	300	5.74	168	964
SW404	4' x 100'	C	400	7.65	96	734
404	4' x 100'	B,C	400	7.65	168	1285
406	6' x 100'	B,C	600	11.4	104	1186
408	8' x 100'	B,C	800	15.3	96	1469
4100	8'4" x 100'	C, FR	833	15.9	96	1526
409	9' x 100'	C	900	17.2	80	1376
494	9'4" x 100'	C,FR	933	17.8	80	1424
410	10' x 100'	B,C	1000	19.1	80	1528
4 MIL (Cont.)						
412	12' x 100'	B,C,FR	1200	22.9	64	1466
414	14' x 100'	C	1400	26.8	48	1286
514	14' x 300'	WH	4200	80.4	16	1286
416	16' x 100'	B,C	1600	30.6	48	1469
420	20' x 100'	B,C,FR,WH	2000	38.2	35	1337
424	24' x 100'	B,C	2400	45.9	35	1607
428	28' x 100'	B,C,WH	2800	53.6	28	1501
432	32' x 100'	B,C	3200	61.2	28	1714
440	40' x 100'	B,C	4000	76.5	24	1836
6 MIL						
610-50	10' x 50'	B,C	500	14.3	99	1416
612-50	12' x 50'	B,C	600	17.2	80	1376
616-50	16' x 50'	B,C	800	22.9	56	1282
620-50	20' x 50'	B,C	1000	28.7	56	1607
606	6' x 100'	B,C	600	17.2	56	963
608	8' x 100'	B,C	800	22.9	56	1282
6100	8'4" x 100'	C	833	23.9	56	1338
609	9' x 100'	C	900	25.8	56	1445
610	10' x 100'	B,C FR	1000	28.7	56	1607
612	12' x 100'	B,C,FR	1200	34.4	49	1686
614	14' x 100'	B,C	1400	40.2	20	804
616	16' x 100'	B,C	1600	45.9	20	918
620	20' x 100'	B,C,FR,WH	2000	57.4	20	1148
RE-620	20' x 100'	C,FR	2000	57.4	20	1148
620	20' x 100'	ASFR	2000	57.4	20	1148
624	24' x 100'	B,C	2400	68.9	25	1723
628	28' x 100'	B,C	2800	80.4	20	1608
632	32' x 100'	B,C	3200	91.9	20	1838
640	40' x 100'	B,C	4000	114	20	2280
640	40' x 100'	BPL	4000	114	16	1824
640-120	40' x 120'	BPL	4800	137	16	2192
Flash-12	12" x 300'	B	300	8.61	168	1446
Flash-18	18" x 300'	B	450	12.9	104	1342
8 MIL						
820	20' x 100'	B,C	2000	76.5	20	1530
10 MIL						
1020	20' x 100'	B,C,FR	2000	95.7	12	1148
RE-1020	20' x 100'	C,FR	2000	95.5	20	1910
AGRICULTURAL FILM						
635	32' x 150'	Black & White	4800	118	12	1424
640	40' x 100'	Black & White	4000	114	16	1824
645	40' x 150'	Black & White	6000	148	16	2368
650	50' x 100'	Black & White	5000	143	9	1287
655	50' x 150'	Black & White	7500	185	12	2220

Options:

ASFR Anti-Static & Flame Retardant Film
B Black Construction Film
BPL Black Pit Liner
C Clear Construction Film
FR Flame Retardant Film
PF Ice Blue
RE Reinforced Film
SW Single-Wound Film (no folds)
WH White Opaque Film

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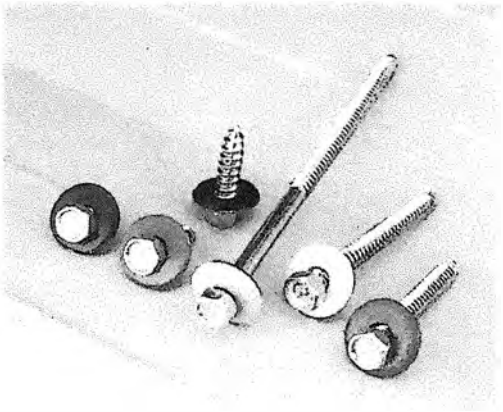
Vent-All™ explosion-venting fasteners limit damage from explosions



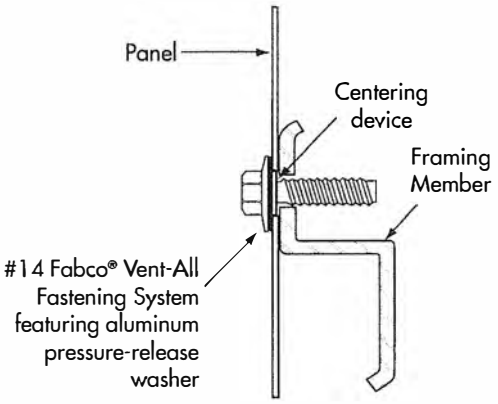
Vent-All™ explosion-venting fasteners, a series of collapsible washers on stainless steel fasteners, are designed to minimize injury and destruction of property from explosions caused by agricultural or industrial operations.

Features

- .729" O.D. washer with special aluminum alloy bonded with EPDM or neoprene sealant
- Washers designed to collapse under force of explosion, allowing panel to separate and vent shock waves

Benefits

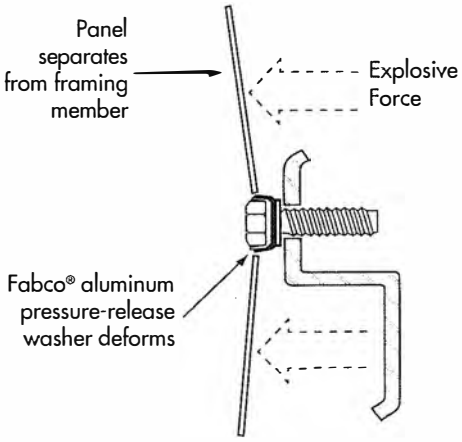
- Maintains standard building integrity
- Minimizes destruction from explosion by quickly dissipating explosive forces
- May be used with any sheet or panel, with or without insulation, in field-assembled or shop-assembled walls



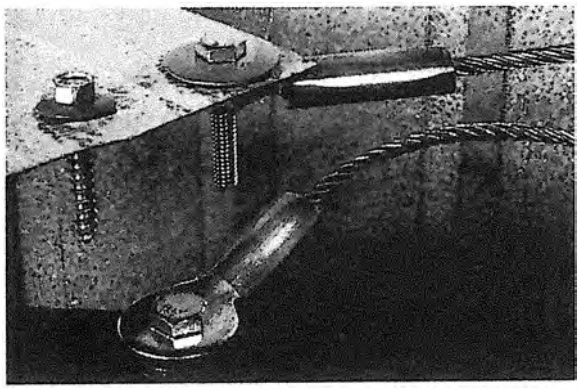
Normal Installed Condition

Washer Designation	Color Code	Release Value per Fastener
EXA-74	Green	70#
EXA-76	Blue	110#
EXA-79	Tan	175#
EXA-84	Light Green	435#
EXA-19	Light Blue	885#

These are the average release pressures for each washer.



Interior Explosion Release Conditions



It is suggested that all sheets or panels be provided with restraint cables, about three feet long, anchored to the structure to prevent sheets from becoming flying projectiles.

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FABCO® FASTENING SYSTEMS

FABCO EXPLOSION VENTING FASTENERS

■ For Damage-Limiting Construction in case of Explosions.

EXPLOSION HAZARDS

As long as highly volatile liquids subject to fume emission are present in manufacturing processes, or operations involve dry materials so fine and light they easily escape into plant air, an explosion is an ever-present danger. These solids, gasses and vapors in industrial structures can generate shock waves from 35 to 120 psi. Pressures can rise from 200 to 2200 psi/second. Otherwise harmless materials, such as flour, sugar, dust, plastic can create havoc in industrial structures.

This peril has continued to exist despite precautionary training programs for workers, carefully balanced ventilating and make-up air systems, totally enclosed motors and electrical control equipment—even physical separation of processing stages to prevent the possible accumulations of conditions which could trigger an explosive blast.

Since the best efforts of industry have not completely eliminated the explosion hazard, considerable attention has been directed toward *minimizing* the loss of life and the destruction of plant buildings and equipment by "explosion venting"—in effect, providing a "path" by which the force of an explosion can escape and be dissipated.

■ Save Equipment from Damage.

■ Reduce Hazards to Personnel.

SEARCH FOR VENTING SYSTEM

The fastener desired would be required to maintain construction integrity under windstorm conditions as well as release when rapidly accelerating shock waves of an explosion occur inside a building.

In the early 1950's, Fabco Fastening Systems initiated experiments in the development of "explosion venting" or "pressure release" fasteners, based on their experience in designing and marketing fasteners for the Metal Building Industry. After private tests were made to develop the fastener concept, an initial series of tests was performed by Factory Mutual Research in 1958. These tests at Factory Mutual Research showed the merits of the system for venting pressures inside structures.

Research and private testing continued, and finally the product was introduced to the Construction Industry. Of the many installations on which FABCO pressure release fasteners were used, a small number of reports were received that explosions had occurred, and the shock waves had vented satisfactorily.

In 1974 FABCO, with confidence in this product, initiated a new series of tests at Factory Mutual Research. Formal approval was granted by Factory Mutual Research

FABCO SYSTEM FOR EXPLOSION VENTING

The FABCO System of Explosion venting is based upon five bearing and sealing washers. These washers are designed to collapse under impact of the shock wave of an explosion, allowing panels to blow off. These washers are .729″ OD special aluminum alloy vulcanized to neoprene or EPDM elastomer sealant.

Washers are assembled to ¼″ diameter stainless steel fasteners which have ⅜″ hexagon heads, are ¾″ to 6″ in length, and may have a centering sleeve, depending on the application.

FABCO pressure-relieving fasteners may be used with any sheet or panel, with or without insulation, in field-assembled or shop-assembled walls.

The five washer release values and washer designations are as follows:

Washer Designation	Color Code	Release Value/Fastener
EXA-74	Green	70#
EXA-76	Blue	110#
EXA-79	Tan	175#
EXA-84	Light Green	435#
EXA-19	Light Blue	885#

These are the average release pressures for each washer.

PERSONNEL SAFETY

For personnel safety it is suggested that all sheets or panels be provided with arresting chains or cables about 3′ long to be anchored to the structure to prevent the sheets from becoming flying projectiles.

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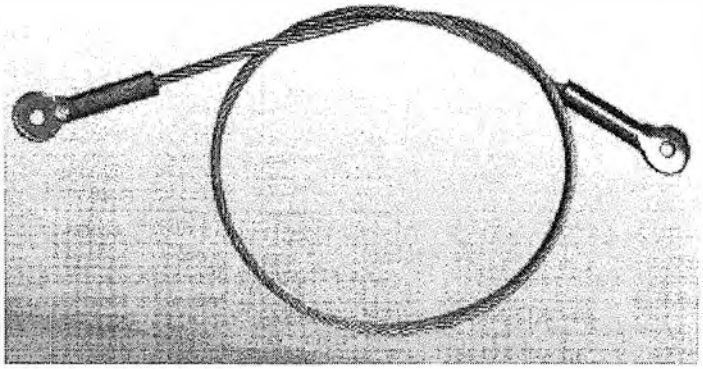
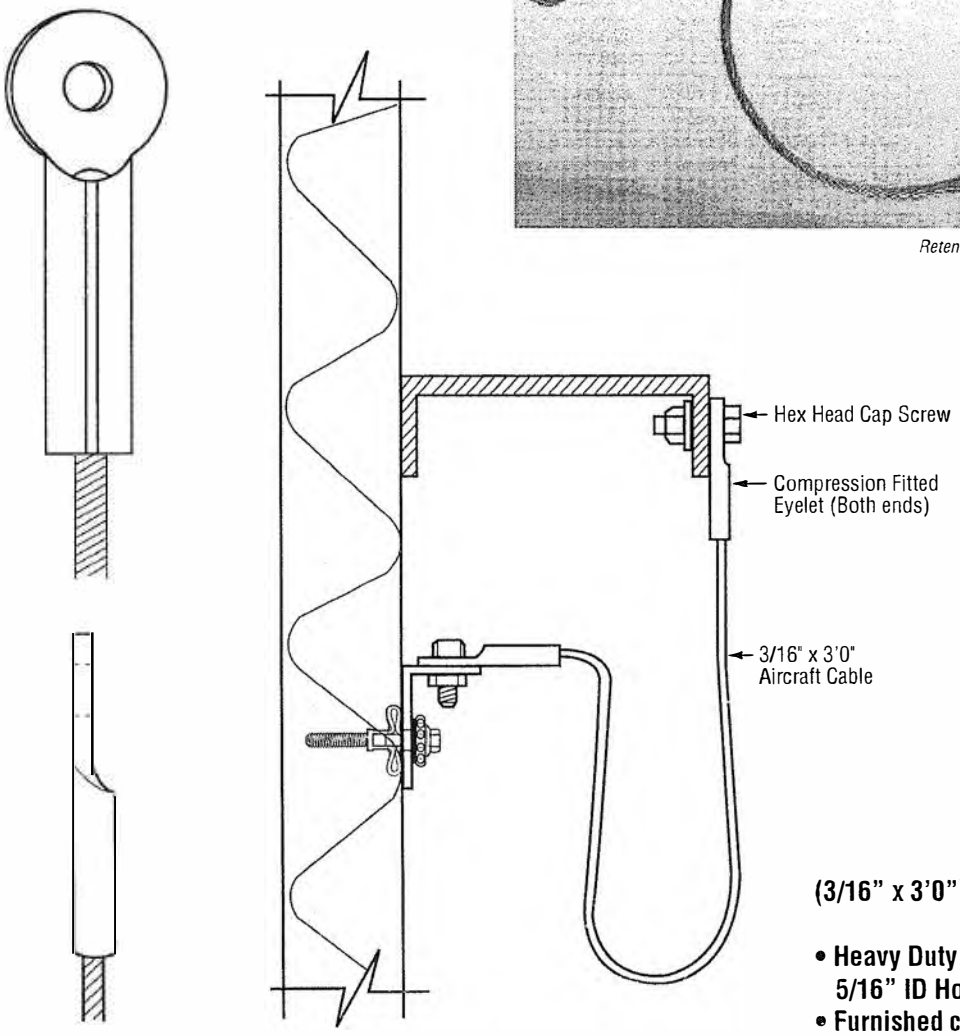
Retention Cable



Retention Cable shown without hardware



(3/16" x 3'0") Retention Cable

- **Heavy Duty Eyes with 5/16" ID Hole**
- **Furnished complete with proper type and size fastener**

AVAILABLE IN STAINLESS STEEL AND CUSTOM MADE LENGTHS

Over 3 million painted parts in stock ready for same day shipping

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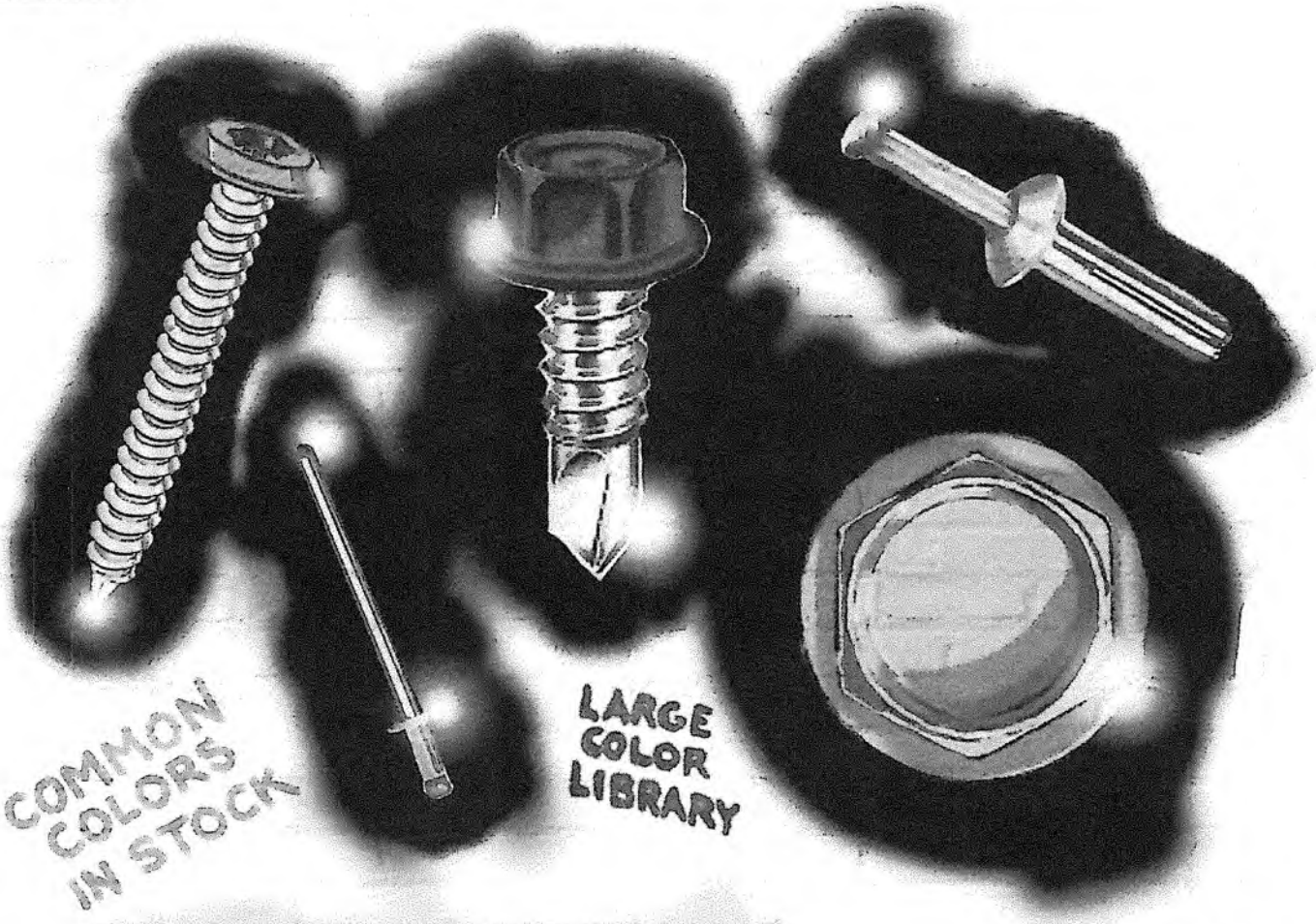

IN HOUSE PAINTING

WE PAINT ANY FASTENER AND FAST !

TUFF BAKED ON FINISH

CUSTOM COLORS

FAST TURNAROUND

FSi

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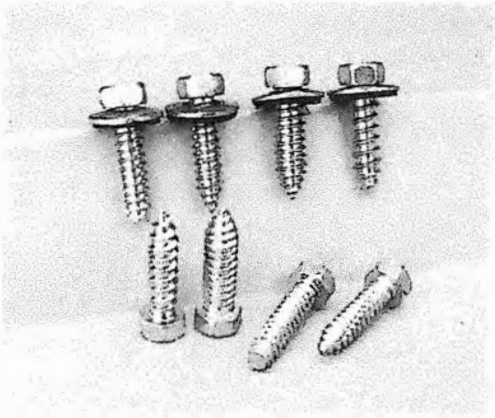
Self-tapping fasteners roll-form threads as they are driven into the mating material, eliminating expensive tapping operations.



Features

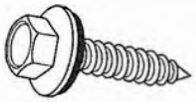
- Three thread/point styles available to match your specific application
- Available in carbon steel, stainless steel or Monel

Benefits

- Save time and labor by eliminating tapping operations
- Standard thread designs allow easy field replacement

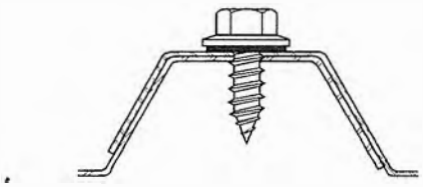
Applications

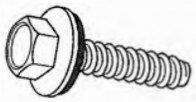
Best performance depends on proper hole size.



#14 Type A

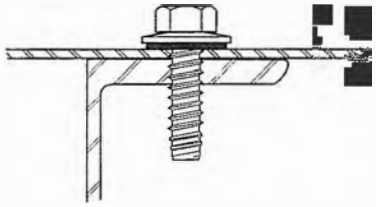
Uses: Cladding and sheet overlap (stitching), for attaching flashing, and for attaching cladding to 18 gage and lighter framing.

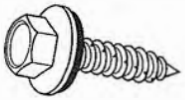




1/4" Type B

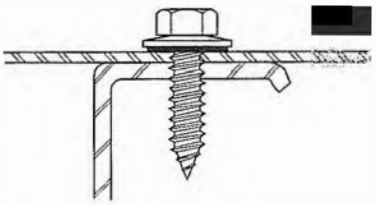
Uses: The tighter thread configuration is designed for attaching cladding to 18 gage and heavier framing members, while the blunt point minimizes the appearance of the fastener inside the building.

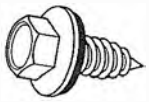




1/4" Type AB

Uses: The tighter thread configuration plus pointed tip make this ideal for aligning sheets during attachment to 18 gage and heavier framing members.

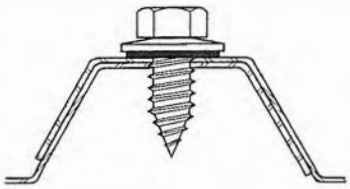




#17 Type AB

Uses: The larger diameter and close thread configuration allow greater resistance to strip-out and shear and results in tighter overlap joints.

This can also be used to replace 1/4" fasteners that have stripped through.



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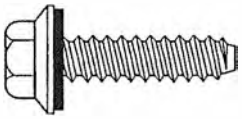
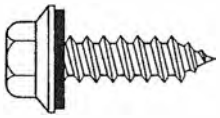
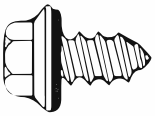
Self-Tapping Carbon Steel Fasteners

• Indented Hex Head • Zinc Plated Sheet Metal Screws • With Neo-Bond® Galvanized Washers

CARBON STEEL

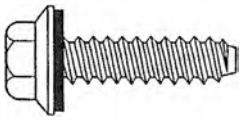


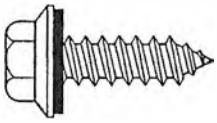


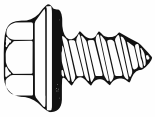


Size	Point	Description	Per M	Quantity
10-16 x 5/8″ HWH	A	Indented Hex Head Carbon Steel	9.1	5,000
12 x 3/4″	A	Indented Hex Head Carbon Steel	10.1	2,500
12 x 1″	A		12.9	2,500
12 x 1½″	A		17.0	2,000
14 x 3/4″	A-AB-B	Indented Hex Head Carbon Steel	14.7	2,500
14 x 1″	A-AB-B		17.0	2,500
14 x 1¼″	A-AB-B		19.0	2,000
14 x 1½″	A-AB-B		21.4	1,500
14 x 1¾″	A-AB-B		23.4	1,500
14 x 2″	A-B		26.0	1,000
14 x 2½″	A-B		30.0	1,000
14 x 3″	A-B		34.0	1,000
14 x 3½″	A-B		38.0	500
14 x 4″	A-B		44.6	500
14 x 5″	A-B		53.5	300
14 x 6″	A-B		61.5	250
14 x 8″	A-AB-B		89.4	250
17 x 3/4″	A-B	Indented Hex Head Carbon Steel	17.0	2,500
17 x 1″	A-B		21.0	2,000
17 x 1½″	A-B		27.0	1,500

MODIFIED 300 SERIES STAINLESS STEEL







Size	Point	Description	Weight Per M	Std. Box Quantity
12 x 3/4″	A-AB-B	Indented Hex Head Carbon Steel	10.1	2,500
12 x 1″	A-AB		12.9	2,500
14 x 3/4″	A-AB-B	Indented Hex Head Carbon Steel	14.7	2,500
14 x 1″	A-AB-B-BP		17.0	2,500
14 x 1¼″	A-B		19.0	2,000
14 x 1½″	A-AB-B-BP		21.4	1,500
14 x 1 3/4″	A-B-BP		23.4	1,500
14 x 2″	A-AB-B-BP		26.0	1,000
14 x 2½″	A-B-BP		30.0	1,000
14 x 3″	A-B		34.0	1,000
14 x 3½″	A-B		38.0	500
14 x 4″	A-B		44.6	500
14 x 4½″	A-B		53.5	300
14 x 5″	A-B		53.5	300
14 x 6″	A-B		61.5	250
14 x 8″	A-B		61.5	250
17 x 3/4″	AB	Indented Hex Head Carbon Steel	17.0	2,000
17 x 1″	AB		21.0	2,000
17 x 1½″	AB		27.0	1,500

All the above parts are available painted and without sealing washers.

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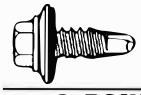
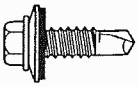
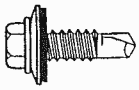
Carbon Steel Self-Drilling Fasteners

• With Neo Bond Sealing Washers • Hex Washer Head

	Size	Description	Weight Per M	Std. Box Quantity
STITCH/LAP POINT 	#10 -12 x 7/8"	Hex Washer Head,	10.2	5,000
	1/4 -14 x 7/8"	Type 1 with	13.2	2,500
	1/4 -14 x 1 1/2"	Bonded Neoprene	19.8	2,500
	#18-9 x 1"	Sealing Washer	18.2	2,000
#2 POINT 	#8-18 x 1/2"	Hex Washer Head,	6.5	10,000
	#8-18 x 5/8"	Type 2 with	7.0	10,000
	#8-18 x 3/4"	Bonded Neoprene	7.7	7,500
	#8-18 x 1"	Sealing Washer	8.4	7,500
	#8-18 x 1 1/2"		12.6	5,00
#2 LONG PILOT POINT	#12-14 x 7/8"	Hex Washer Head,	11.7	2,500
	#12-14 x 1"	Pilot Point Type 2 with	13.9	2,500
	#12-14 x 1 1/4"	Bonded Neoprene	15.0	2,500
	#12-14 x 1 1/4"	Sealing Washer	16.7	2,000
	#12-14 x 2"		20.0	1,500
#3 POINT 	#10-16 x 1/2"	Hex Washer Head,	8.3	10,000
	#10-16 x 5/8"	Type 3 with	9.1	7,500
	#10-16 x 3/4"	Bonded Neoprene	9.7	5,000
	#10-16 x 1"	Sealing Washer	10.3	5,000
	#10-16 x 1 1/4"		12.1	5,000
	#10-16 x 1 1/2"		13.5	2,500
	#10-16 x 2"		14.9	2,500
	#12-14 x 3/4"	Hex Washer Head,	12.7	2,500
	#12-14 x 1"	Type 3 with	14.7	2,500
	#12-14 x 1 1/4"	Bonded Neoprene	16.8	2,500
	#12-14 x 1 1/2"	Sealing Washer	18.0	2,000
	#12-14 x 2"		20.5	1,500
	#12-14x 2 1/2"		24.5	1,000
	#12-14 x 3"		28.0	1,000
	1/4 -14 x 3/4"	Hex Washer Head,	16.4	2,500
	1/4 -14 x 1"	Type 3 with	18.6	2,500
	1/4 -14 x 1 1/4"	Bonded Neoprene	19.9	2,000
	1/4 -14 x 1 1/2"	Sealing Washer	22.4	2,000
	1/4 -14 x 2"		27.0	1,500
	1/4 -14 x 2 1/2"		32.6	1,000
	1/4 -14 x 3"		37.1	500
	1/4 -14 x 4"		47.2	500
#4 POINT	#12-24 x 7/8"	Hex Washer Head,	14.8	2,500
	#12-24 x 1"	Type 4, with	15.0	2,500
	#12-24 x 1 1/4"	Bonded Neoprene	17.0	2,500
		Sealing Washer		
#5 POINT	#12-24 x 1 1/4"	Hex Washer Head,	17.4	2,500
	#12-24 x 1 1/2"	Type 5, with	16.5	2,000
	#12-24 x 2"	Bonded Neoprene	21.6	1,500
	#12-24 x 3"	Sealing Washer	26.7	1,500
	1/4 -14 x 4"	Hex Washer Head,	47.2	500
	1/4 -14 x 5"	Type 5, with	57.3	300
	1/4 -14 x 6"	Bonded Neoprene	67.4	250
	1/4 -14 x 8"	Sealing Washer	90.4	250

All the above parts are available painted and without sealing washers.

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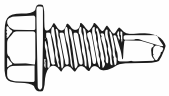
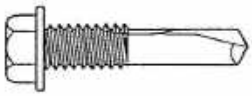
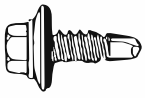
410 Stainless Self-Drilling Fasteners

• Without Sealing Washers **• Hex Washer Head**

	Size	Description	Weight Per M	Std. Box Quantity
STITCH/LAP POINT 	#10-12 x 7/8"	Hex Washer Head, Type 1	7.8	5,000
	1/4 -14 x 3/4"		12.2	2,500
	1/4 -14 x 7/8"		12.5	2,500
	#14-10 x 1"		12.1	2,500
	#18-9 x 1"		15.4	2,000
#2 POINT	#8-18 x 1/2"	Hex Washer Head, Type 2	3.3	10,000
	#8-18 x 3/4"		4.5	7,500
	#8-18 x 1"		5.6	7,500
	#12-14 x 3/4"		9.7	5,000
#2 LONG PILOT POINT	#12-14 x 1"	Hex Washer Head, Pilot Point Type 2	10.3	2,500
	#12-14 x 1 1/4"		11.5	2,500
	#12-14 x 1 1/2"		13.7	2,000
#3 POINT	#10-16 x 1/2"	Hex Washer Head, Type 3	5.3	7,500
	#10-16 x 3/4"		6.8	5,000
	#10-16 x 1"		7.8	5,000
	#10-16 x 1 1/2"		10.5	2,500
	#12-14 x 3/4"	Hex Washer Head, Type 3	9.7	2,500
	#12-14 x 1"		11.7	2,500
	#12-14 x 1 1/4"		12.3	2,500
	#12-14 x 1 1/2"		12.9	2,000
	#12-14 x 2"		15.5	1,500
	1/4 -14 x 3/4"	Hex Washer Head, Type 3	12.2	2,500
	1/4 -14 x 1"		15.5	2,500
	1/4 -14 x 1 1/4"		17.5	2,000
	1/4 -14 x 1 1/2"		20.3	1,500
	1/4 -14 x 2"		25.6	1,500
	1/4 -14 x 2 1/2"		30.9	1,000
	1/4 -14 x 3"		35.0	500
#4 POINT 	#12-24 x 1 1/4"	Hex Washer Head, Type 4	14.0	2,500
#5 POINT	#12-24 x 1 1/4"	Hex Washer Head, Type 5	13.9	2,500
STITCH/LAP POINT 	#10-12 x 7/8"	Hex Washer Head, Type 1 with Bonded Neoprene Sealing Washer	10.6	5,000
	1/4 -14 x 3/4"		15.2	2,500
	1/4 -14 x 7/8"		16.3	2,500
	#14-10 x 1"		15.1	2,500
	#18-9 x 1"		18.4	2,000

All the above parts are available painted and with sealing washers.

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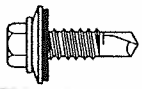
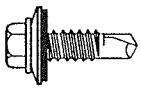
410 Stainless Self-Drilling Fasteners

• With Sealing Washers • Hex Washer Head

	Size	Description	Weight Per M	Std. Box Quantity
#2 POINT 	#8-18 x ½″	Hex Washer Head,	6.8	10,000
	#8-18 x ¾″	Type 2 with	8.0	7,500
	#8-18 x 1″	Bonded Neoprene	8.6	7,500
	#12-14 x ¾″	Sealing Washer	11.5	5,000
#2 LONG PILOT POINT	#12-14 x 1″	Hex Washer Head,	13.3	2,500
	#12-14 x 1¼″	Pilot Point Type 2 with	14.5	2,500
	#12-14 x 1½″	Bonded Neoprene	16.7	2,000
		Sealing Washer		
#3 POINT 	#10-16 x ½″	Hex Washer Head,	8.3	7,500
	#10-16 x ¾″	Type 3 with	9.5	5,000
	#10-16 x 1″	Bonded Neoprene	11.9	5,000
	#10-16 x 1½″	Sealing Washer	13.9	2,500
	#12-14 x ¾″	Hex Washer Head,	12.7	2,500
	#12-14 x 1″	Type 3 with	14.7	2,500
	#12-14 x 1¼″	Bonded Neoprene	13.9	2,500
	#12-14 x 1½″	Sealing Washer	18.0	2,000
	#12-14 x 2″		19.5	1,500
	¼ -14 x ¾″	Hex Washer Head,	15.2	2,500
	¼ -14 x 1″	Type 3 with	18.5	2,500
	¼ -14 x 1¼″	Bonded Neoprene	20.5	2,000
	¼ -14 x 1½″	Sealing Washer	23.3	2,000
	¼ -14 x 2″		28.6	1,500
	¼ -14 x 2½″		30.9	1,000
	¼ -14 x 3″		38.5	500
#4 POINT	#12-24 x 1¼″	Hex Washer Head, Type 4 with Bonded Neoprene Sealing Washer	17.0	2,500
#5 POINT	#12-24 x 1¼″	Hex Washer Head, Type 5 with Bonded Neoprene Sealing Washer	16.9	2,500

Carbon Steel Self-Drilling Fasteners

• Without Sealing Washers • Phillips Pan Head

#2 POINT	#6-20 x ⅜″	Phillips Pan Head	1.8	10,000
	#6-20 x ½″	Type 2	2.2	10,000
	#8-18 x ½″	Phillips Pan Head	3.3	10,000
	#8-18 x ⅝″	Type 2	4.0	10,000
	#8-18 x ¾″		4.4	10,000
	#8-18 x 1″		5.1	7,500
	#8-18 x 1½″		6.9	7,500
#3 POINT	#10-16 x ½″	Phillips Pan Head	4.8	7,500
	#10-16 x ⅝″	Type 3	5.6	7,500
	#10-16 x ¾″		5.7	7,500
	#10-16 x 1″		7.2	7,500
	#10-16 x 1½″		9.6	7,500
	#10-16 x 2″		12.0	5,000

All the above parts are available painted and without sealing washers.

Same day color match - In house painting

Fastener Systems, Inc.
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West Chester, PA 19382
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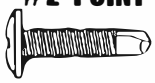
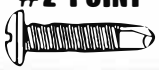
Carbon Steel Self-Drilling Wafer Head Fasteners

• Wafer Head

	Size	Description	Weight Per M	Std. Box Quantity
#2 POINT 	#8-18 x ½″	Phillips Wafer Head	3.2	10,000
	#8-18 x ¾″	Type 2	4.1	10,000
	#8-18 x 1″	Low Profile	5.0	8,000
	#8-18 x 1¼″		5.9	6,000
	#8-18 x 1⅝″		7.3	5,000

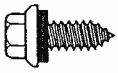
410 Stainless Steel Self-Drilling Fasteners

• Without Sealing Washers • Phillips Pan Head

#2 POINT 	#8-18 x ½″	Phillips Pan Head	3.3	10,000
	#8-18 x ¾″	Type 2	4.2	10,000
	#8-18 x 1″		5.1	7,500
#3 POINT	#10-16 x ½″	Phillips Pan Head	4.8	7,500
	#10-16 x ¾″	Type 3	5.7	7,500
	#10-16 x 1″		7.2	5,000

FLAT-TOP™ Self-Drilling & Self-Tapping Fasteners

• Carbon Steel • Under-Cut Hex Heads and EPDM Sealing Washers • OxySeal II Long-Life Coating
• Socket Support • Deeper Undercut to Entrap Sealant

STITCH/LAP POINT	1/4-14 x ⅞″	Hex Head Under-Cut, Type 1 with EPDM Sealing Washer	12.6	2,500
#2 LONG PILOT POINT	#12-14 x 1″	Hex Head Under-Cut,	12.9	2,500
	#12-14 x 1¼″	Pilot Point Type 2	16.2	2,500
	#12-14 x 1½″	with EPDM Sealing Washer	17.1	2,000
	#12-14 x 2″		20.0	1,500
	¼-14 x 1″	Hex Head Under-Cut,	18.0	2,500
	¼-14 x 1¼″	Pilot Point Type 2 with EPDM Sealing Washer	20.0	2,500
SELF-TAPPING 	14 x ¾″	Hex Head Under-Cut,	13.2	2,500
	14 x 1″	Type A-AB with	17.0	2,500
	14 x 1½″	EPDM Sealing Washer	21.0	2,500
	14 x 2″		24.0	1,500
	17-14 x 1″		16.0	1,500

FLAT-TOP™ 410 Stainless Steel Self-Drilling & Self-Tapping Fasteners

STITCH/LAP POINT	1/4-14 x ⅞″	Hex Head Under-Cut,	16.3	2,500
	1/4-14 x ¾″	Type 1 and AB with EPDM Sealing Washer	14.7	2,500
#3 POINT	12-14 x ¾″	Hex Head Under-Cut,	12.7	2,500
	12-14 x 1″	Type 3 with	14.7	2,500
	12-14 x 1¼″	EPDM Sealing Washer	15.9	2,500
	12-14 x 1½″		18.0	2,000
	¼-14 x ¾″	Hex Head Under-Cut,	15.2	2,500
	¼-14 x 1″	Type 3 with	18.5	2,500
	¼-14 x 1¼″	EPDM Sealing Washer	20.5	2,000
	¼-14 x 1½″		23.3	2,000
	¼-14 x 2″		28.6	1,000

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

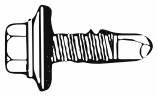
Metal to Wood Fasteners

• Carbon Steel • 1/4″ Hex Washer Head • With Neo-Bond® Washers

	Size	Description	Weight Per M	Std. Box Quantity
WOODGRIP®	#10-16 x 1″	Hex Head Woodgrip®	8.7	3,000
	#10-16 x 1½″	Sharp Point with	10.8	2,500
	#10-16 x 2″	Bonded Neoprene	13.1	2,500
	#10-16 x 2½″	Sealing Washer	15.4	1,000
	#10-16 x 3″		17.7	1,000
	#12-14 x ¾″		15.0	2,500
WOODTITE®	#10-16 x 1″	Hex Head Woodtite®	8.2	2,500
	#10-16 x 1½″	Type 17 Point with	10.5	2,500
	#10-16 x 2″	Bonded Neoprene	12.3	2,000
	#10-16 x 2½″	Sealing Washer	14.8	1,500
	#10-16 x 3″		17.0	1,000
	#14-10 x 1″	Hex Head Woodtite®	15.0	2,500
	#14-10 x 1½″	Type 17 Point with	18.6	2,000
	#14-10 x 2″	Bonded Neoprene	22.7	1,500
		Sealing Washer		
ZAC WOODGRIP®	#10-16 x 1″	Hex Head Woodgrip®	9.5	2,500
	#10-16 x 1½″	Sharp Point ZAC®	11.5	2,500
	#10-16 x 2″	Cap with Bonded	14.0	2,000
	#10-16 x 2½″	Neoprene Sealing Washer	16.5	1,500
	#10-16 x 3″		19.0	1,000
	#12 x ¾″		6.3	2,500
WOOD TO METAL	#10-24 x 1 7/16″	Phillips Wafer Head Type3 with Wings	10.0	2,500
	#11-16 x 2 15/16″	Phillips Flat Head	23.0	1,000
	#11-16 x 3 7/16″	Type4 with Wings	25.0	1,000
	#11-16 x 3 15/16″		30.0	500
	#12-24 x 1 5/8″	Phillips Wafer Head	13.6	2,500
	#12-24 x 2″	Type4 with Wings	17.6	1,500
	#12-24 x 2½″		22.1	1,000
	¼-20 x 2¾″	Phillips Wafer Head Type4 with Wings	23.1	1,000

Aluminum Self-Drilling Fasteners

• Hex Washer Head (1/4″ Across Flat) with Reduced Diameter Tapered Compression Point
• With Aluminum Neo-Bond® Washers

	Size	Description	Weight Per M	Std. Box Quantity
#1 POINT 	#11-13 x 1″	Hex Head Aluminum	4.0	2,500
	#11-13 x 1½″	Woodgrip with Bonded	5.0	2,000
	#11-13 x 2″	Neoprene Sealing Washer	6.0	1,500
	#11-13 x 2½″		7.0	1,000

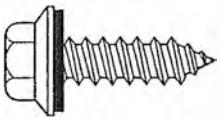
We put the *fast* in fasteners

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

Self-Tapping 410 Stainless Steel Sheeting Fasteners

• Indented 3/8″ Hex Head • With Stainless Steel Neo-Bond® Washers

410 STAINLESS STEEL

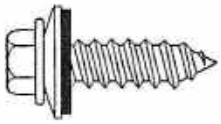


Size	Description	Weight Per M	Std. Box Quantity
14 x ¾″	Indented Hex Head,	14.7	2,500
14 x 1″	Type A-AB-B, with	17.0	2,500
14 x 1½″	Bonded Neoprene	21.4	1,500
14 x 2″	Sealing Washer	26.0	1,000
14 x 2 ½″		30.0	1,000

Scrubolt® Sheeting Fasteners

• Indented 3/8″ Hex Head • Zinc Plated • With Galvanized Neo-Bond® Washer

CARBON AND STAINLESS STEEL



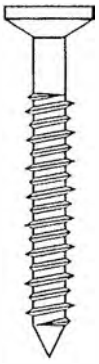
Size	Description	Weight Per M	Std. Box Quantity
11/32″ x 7/8″	Indented Hex Head,	33.2	1,000
11/32″ x 1¼″	Type AB with	41.3	1,000
11/32″ x 1½″	Bonded Neoprene	45.3	1,000
11/32″ x 1¾″	Sealing Washer	49.4	1,000
11/32″ x 2″		53.4	1,000
11/32″ x 2¾″		65.6	1,000
11/32″ x 3½″		77.8	500
11/32″ x 5″		90.0	500
23/64″ x 1″	Indented Hex Head,	34.0	1,000
23/64″ x 2¼″	Type AB with	53.9	1,000
23/64″ x 3½″	Bonded Neoprene	73.8	500
23/64″ x 5″	Sealing Washer	93.7	500
23/64″ x 6″		109.4	500

Fastener Systems Tapcon® Type Masonry System

PHILLIPS SLOTTED HEX WASHER HEAD

Size	Description
3/16″ x 1¼″	Phillips Slotted
3/16″ x 1¾″	Hex Washer Head
3/16″ x 2¼″	
3/16″ x 2¾″	
3/16″ x 3¼″	
3/16″ x 3¾″	
3/16″ x 4″	
¼″ x 1¼″	Phillips Slotted
¼″ x 1¾″	Hex Washer Head
¼″ x 2¼″	
¼″ x 2¾″	
¼″ x 3¼″	
¼″ x 3¾″	
¼″ x 4″	
¼″ x 5″	
¼″ x 6″	

PHILLIPS FLAT HEAD

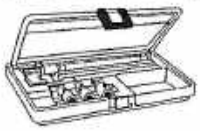


Size	Description
3/16″ x 1¼″	Phillips Flat Head
3/16″ x 1¾″	
3/16″ x 2¼″	
3/16″ x 2¾″	
3/16″ x 3¼″	
3/16″ x 3¾″	
3/16″ x 4″	
¼″ x 1¼″	Phillips Flat Head
¼″ x 1¾″	
¼″ x 2¼″	
¼″ x 2¾″	
¼″ x 3¼″	
¼″ x 3¾″	
¼″ x 4″	
¼″ x 5″	
¼″ x 6″	

304 AND 410 STAINLESS STEEL

Size	Description
¼" x 1¼"	Hex Washer
¼" x 1¾"	Head Tapcon®
¼" x 2¼"	and Phillips
¼" x 2¾"	Flat Head Tapcon®

INSTALLATION TOOL KIT



SDS AND ROUND SHANK CARBIDE DRILL BITS ARE AVAILABLE FOR TAPCON® FASTENING SYSTEM

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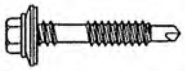
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

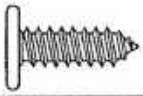
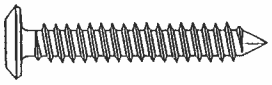
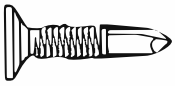
Rigid and Blanket Self-Drilling Insulation Fasteners

• Hex Washer Head with High Thread • Zinc Plated • With Washers

	Size	Description	Weight Per M	Std. Box Quantity
#3 POINT	#12 (¼ -14) x 1⅞″ #12 (¼ -14) x 2⅜″ #12 (¼ -14) x 3″	Hex Washer Head with High Thread Type 3 with 1-1/8″ Plastic Washer for interior insulation	25.9 30.4 42.0	750 500 250
#3 POINT 	#12 (¼ -14) x 1⅞″ #12 (¼ -14) x 2⅜″ #12 (¼ -14) x 3″	Hex Washer Head with High Thread Type 3 with Bonded Neoprene Washer for exterior insulation	22.8 30.3 34.1	1,500 1,000 1,000

Low-Profile Panel Clip Fasteners

• Carbon Steel • 410 Stainless: Passivated • 304 Stainless Steel

	Size	Description	Weight Per M	Std. Box Quantity
PANCAKE HEAD SELF-TAPPING Carbon Steel and 410 Stainless 	#10-12 x 1″ #10-12 x 2″	Phillips Pancake Head Type A	6.9 13.2	5,000 5,000
	#12-11 x 1″ #12-11 x 1¼″	Phillips Pancake Head Type A	10.2 12.0	2,500 2,500
PANCAKE HEAD SELF DRILLING Carbon Steel and 410 Stainless	#10-16 x 1″ #10-16 x 2″	Phillips Pancake Head Type 3	6.8 13.0	5,000 5,000
	#12-14 x 1″	Phillips Pancake Head Type 3	10.0	2,500
BEVEL FLAT HEAD Carbon Steel and 304 Stainless 	¼″-14 x 2″ ¼″-14 x 3″ ¼″-14 x 4″ ¼″-14 x 5″ ¼″-14 x 6″ ¼″-14 x 7″ ¼″-14 x 8″	Polarfast® Torx® Beveled Flat Head Type BP	23.0 33.0 43.0 53.0 63.0 73.0 83.0	1,000 1,000 1,000 1,000 1,000 500 500
FLAT WAFER HEAD SELF-DRILLING Carbon Steel 	#10-24 x ¾″ #10-24 x 1″ #10-24 x 1¼″ #10-24 x 1½″	Phillips Flat Wafer Head Type 3	7.9 9.6 11.3 13.0	5,000 5,000 5,000 3,500

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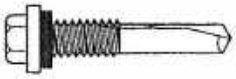
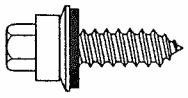
ULTIMATE® LONG-LIFE FASTENERS

• Carbon Steel Insert with Zinc Die Cast Head Assembled to EPDM Washer

	Size	Description	Weight Per M	Std. Box Quantity
STITCH/LAP POINT	¼ - 14 x ⅞″	5/16 Hex Undercut Head	17.2	2,500
	¼ - 14 x 1″	with Zinc Cast Head	19.2	2,000
	#18 - 9 x 1″	Type 1 with EPDM Neoprene Washer	26.5	2,000
STITCH/LAP POINT	¼ - 14 x ⅞″	3/8 Hex Undercut Head	18.0	2,500
	¼ - 14 x 1″	with Zinc Cast Head Type 1 with EPDM Neoprene Washer	20.3	2,000
#2 LONG PILOT POINT	#12-14 x 1″	5/16 Hex Undercut Head	15.1	2,500
	#12-14 x 1¼″	with Zinc Cast Head	18.1	2,000
	#12-14 x 1½″	Type 2 with	19.2	1,500
	#12(¼-14) x 1⅞″ (Insul-Dril®)	EPDM Neoprene Washer	26.2	1,500
	#12-14 x 2″		20.7	1,500
	#12-14 x 3″		31.2	500
	¼ - 14 x 1¼″		19.2	1,500
#2 LONG PILOT POINT	#12-14 x 1″	3/8 Hex Undercut Head	16.1	2,000
	#12-14 x 1¼″	with Zinc Cast Head	19.6	2,000
	#12-14 x 1½″	Type 2 with	20.8	1,500
	#12-14 x 2″	EPDM Neoprene Washer	23.1	1,500
#4 POINT 	#12-24 x 1¼″	5/16 Hex Undercut Head with Zinc Cast Head Type 4 with EPDM Neoprene Washer	18.1	2,000
#4 POINT	#12-24 x 1¼″	3/8 Hex Undercut Head with Zinc Cast Head Type 4 with EPDM Neoprene Washer	19.6	2,000
AB POINT	¼ - 14 x ¾″	5/16 Hex Undercut Head	15.2	2,500
	¼ - 14 x 1″	with Zinc Cast Head	17.9	2,000
	¼ - 14 x 1¼″	Type AB	19.3	2,000
	¼ - 14 x 1½″	EPDM Neoprene Washer	22.1	1,500
	¼ - 14 x 2″		24.1	1,000
AB POINT	¼ - 14 x ¾″	3/8 Hex Undercut Head	15.4	2,500
	¼ - 14 x 1″	with Zinc Cast Head	18.5	2,000
	¼ - 14 x 1¼″	Type AB	20.0	2,000
	¼ - 14 x 1½″	EPDM Neoprene Washer	22.7	1,500
	¼ - 14 x 2″		24.5	1,000
AB POINT	#17-14 x ¾″	3/8 Hex Flat with	17.0	2,000
	#17-14 x 1″	Zinc Cast Head Type AB EPDM Neoprene Washer	18.0	1,500
AB POINT 	11/32″ x ⅞″	3/8 Hex Flat with	33.5	1,000
	11/32″ x 1¼″	Zinc Cast Head	49.6	1,000
	11/32″ x 1¾″	Type AB with 7/8″ Diameter Bonded Neoprene Washer	49.6	1,000

All the above parts are available painted and without sealing washers.

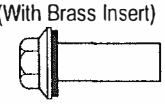
Fast overnight service

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

Grommet Seal Fasteners

•For Fastening Side Lap & Trim in Fiberglass or Vinyl Panels •Hex Head Machine Screw
• Assembled with Black EPDM Grommet with Concealed Brass Nut Insert & Neo Bond® Washer

	Size	Hole Size		Weight Per M	Std. Box Quantity
MATERIAL	#6-32 X 1″	¼″	Grommet Seal	8.0	1,500
302 Stainless Screw	#10-32 X 1″	⅜″	Fasteners	17.0	1,500
(With Brass Insert)	#10-32 X 1¼″	⅜″		18.8	1,500



Neo Bond® Flat Bond Sealing Washer

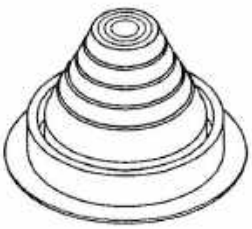
•For All Fastener Sizes •Galvanized Steel, 302 Stainless and Aluminum Backing Materials • EPDM

	Outside Diameter*	Inside Diameter*		Standard Carton Quantity	
SPECIFICATIONS	½″	#8	.180	12,500	Available in Galvanized Stainless Steel and Aluminum
		#10	.200		
		#12	.230		
		#14	.260		
	15mm	#12	.240	10,000	
		#14	.275		
	⅝″	#12	.240	7,500	
		#14	.275		
		#17	.310		
	¾″	#14	.275	6,000	
		5/16″	.360		
		⅜″	.410		
	1″	#12	.240	2,500	
	1⅛″	#10	.200	2,000	
		#14	.275		

*Additional Sizes Made to Order

Master Flash® Pipe Flashings

	No.	Pipe Size	Base Dimension	OpeninG Diameter		Box Quantity
SPECIFICATIONS	#1	¼″ - 2″	4½″	Closed	Available in EPDM and Silicone	10 pcs.
	#2	1¼″ - 3″	6″	⅞″		10 pcs.
	#3	¼″ - 4″	8″	Closed		10 pcs.
	#4	3″ - 6″	10″	2½″		5 pcs.
	#5	4″ - 7″	11″	3½″		5 pcs.
	#6	5″ - 9″	12″	4″		5 pcs.
	#7	6″ - 11″	14″	5″		5 pcs.
	#8	7″ - 13″	17″	6″		5 pcs.
	#9	10″ - 19″	26½″	7″		2 pcs.
	#10	12″ - 26″	34″	10″		5 pcs.



NOTE: Numbers I and 3 are closed top. When using pipe flashing on a very steep pitched roof or on a surface with deep corrugation, use the next largest size for increased flange flexibility. For material specifications, contact our Technical Services Department.

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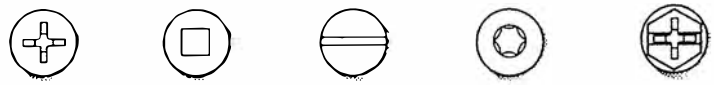
Product Capabilities & Technical Data

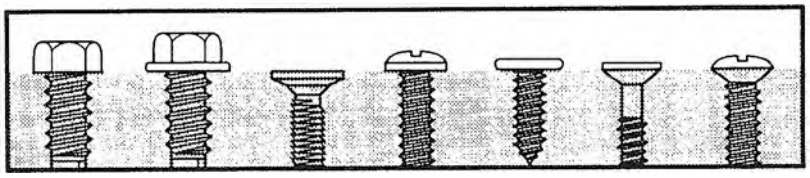
Head Drive Systems



Cross Recess | Square Recess | Slotted Head | Six Lobe | Combo-Head Hex Washer, Slotted and Cross Recess

Head Styles Available

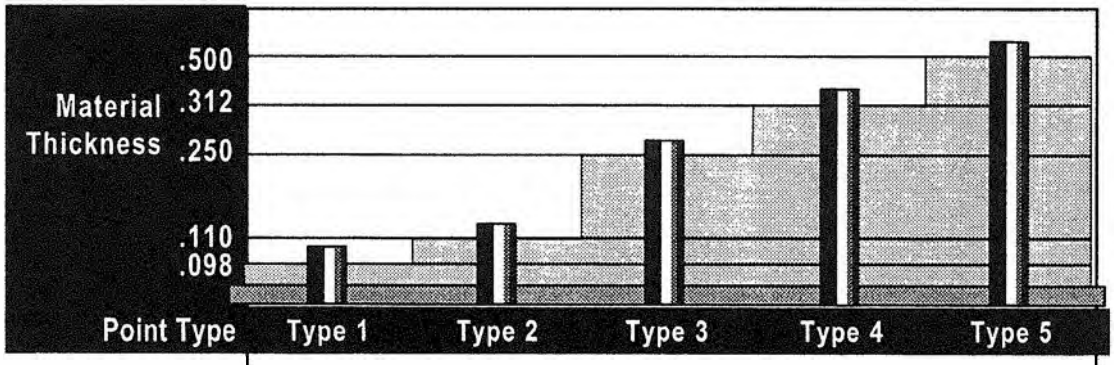
Hex Head | Hex Washer Head | Flat Wafer Head | Pan Head | Pancake Head | Flat Countersunk Head | Oval Countersunk Head



Decimal (inch) Equivalents of Thread Diameters / Decimal (inch) Equivalents of Sheet Metal Gauges

Thread Diameter	Decimal Equivalent	Gauge	Thickness (in.)
#6	.140	26	.018
#7	.150	24	.024
#8	.160	22	.030
#9	.180	20	.036
#10	.190	18	.048
#11	.200	16	.060
#12	.210	14	.075
#13	.230	12	.105
¼"	.240	10	.134
#14	.250	8	.164
#17	.285	4	.224
#18	.304	1/4	.250
11/32"	.344		

Drill Point Capabilities



Point Type	Type 1	Type 2	Type 3	Type 4	Type 5
	#10 (.035-.090)	#6 (.035-.098)	#8 (.100-.140)	#12(.145-.312)	#12 (.250-.500)
	#12 (.035-.090)	#8 (.035-.100)	#10 (.110-.175)	¼" (.250-.312)	¼" (.250-.500)
	¼" (.035-.090)	#10 (.090-.110)	#12 (.090-.210)		
	#18 (.035-.098)	#12 (.050-.140)	¼" (.110-.250)		

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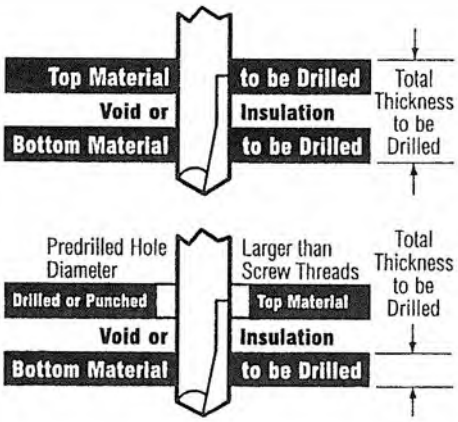
Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

Product Capabilities & Technical Data

Metal to Metal Fastening To Determine Drilling Tip Length

The length of the tip required on a drilling fastener is determined by adding up the thickness of the top material, any insulation or void between the top material and bottom material, and the thickness of the bottom material. If a hole larger than the screw thread has been pre-drilled or punched into the top material, only the thickness of the bottom material need be considered. The threaded portion of the shank must be long enough to extend into and through the bottom material drilled.



Fastener Type	Recommended Driving Speed
Drilling Fasteners	
#6 through #10 dia.	2500 RPM max.
#12 through #18 dia.	1800 RPM max.
Self-Tapping Fasteners	
Carbon & 410 Stainless	1800 RPM max.
300 Stainless	800 RPM max.
Nylon Head Fasteners	
Self-Tapping	800 RPM max.
Drilling	1800 RPM max.

Fastener Size	Washer O.D.
#8 thru #10	1/2"
#12 thru #1/4"	15mm
#18	15mm

Fastener Strength

Fastener Diameter	Minimum Tensile	Minimum Torque	Minimum Shear
6-20	1125 lbs.	25 in. lbs.	750 lbs.
8-18	1575 lbs.	42 in. lbs.	1000 lbs.
9-16	2350 lbs.	65 in. lbs.	1500 lbs.
10-16	2100 lbs.	61 in. lbs.	1400 lbs.
10-24	2350 lbs.	65 in. lbs.	1500 lbs.
12-14	2800 lbs.	92 in. lbs.	2000 lbs.
12-24	3250 lbs.	100 in. lbs.	2100 lbs.
¼ -14	3850 lbs.	150 in. lbs.	2600 lbs.
¼ -20	4275 lbs.	168 in. lbs.	2700 lbs.
17-14	5200 lbs.	175 in. lbs.	3125 lbs.
18-9	4550 lbs.	170 in. lbs.	2575 lbs.

Suggested Drill Size & Pull-Out Test Results

for Self-Tapping Sheeting Fasteners

To determine the tension required to pull a properly applied screw out of a structural steel member

Steel Thickness	Point Type	Drill Size	Average Ultimate Pullout
26 Ga. (.018)	A, AB	⅛" (.125)	243 lbs.
24 Ga. (.024)	A, AB	5/32" (.156)	340 lbs.
22 Ga. (.030)	A, AB	5/32" (.156)	372 lbs.
20 Ga. (.036)	A, AB	5/32" (.156)	412 lbs.
18 Ga. (.048)	A, AB, BP	3/16" (.187)	518 lbs.
16 Ga. (.060)	A, AB, B, BP	3/16" (.187)	674 lbs.
14 Ga. (075)	AB, B, BP	#7 (.201)	831 lbs.
12 Ga. (.105)	AB, B, BP	#7 (.201)	1681 lbs.
⅛" (.125)	AB, B, BP	#2 (.221)	1780 lbs.
10 Ga. (.134)	AB, B, BP	#2 (.221)	1812 lbs.
3/16" (.187)	B, BP	#2 (.221)	2855 lbs.
¼" (.250)	B, BP	#2 (.221)	3355 lbs.
⅜" (.375)	B, BP	#2 (.221)	3391 lbs.*
½" (.500)	B, BP	#1 (.228)	3500 lbs.*

*Exceeds tensile strength of fastener.

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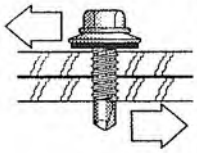
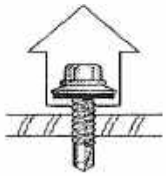
Product Capabilities & Technical Data

Shear Values

for Carbon Steel Drilling Fasteners



Fastener Diameter		Gauge 2x26 (.036)	2x24 (.046)	2x22 (.060)	2x20 (.072)	2x18 (.096)	2x16 (.120)	2x14 (.150)	2x12 (.210)	2x1/8 (.250)	2x3/16 (.375)	2x1/4 (.500)
12-14	Type1	435	706	756	1021	1455	/	/	/	/	/	/
¼-14	Type1	514	852	888	1247	1767	/	/	/	/	/	/
8-18	Type2	297	499	563	743	1063	1081	/	/	/	/	/
10-16	Type2	315	481	592	833	1209	1271	/	/	/	/	/
12-14	Type2	368	603	626	901	1373	1761	2141	/	/	/	/
8-18	Type3	/	/	/	733	1093	1213	1217	/	/	/	/
10-16	Type3	/	/	/	731	1269	1543	1555	/	/	/	/
10-24	Type3	/	/	/	754	1211	1557	1697	/	/	/	/
12-14	Type3	/	/	/	772	1361	1623	1973	1989	/	/	/
¼-14	Type3	/	/	/	933	1445	2103	2587	2653	2823	/	/
12-24	Type4	/	/	/	/	/	/	/	2051	2703	/	/
12-24	Type5	/	/	/	/	/	/	/	/	2703	2723	2765



Pull-Out Values (Lbs.) for Self-Drilling Fasteners

Size	Point	Gauge 26	24	22	20	18	16	14	12	1/8	3/16	1/4
8-18	T/2	122	196	268	301	494	706	962	1561	/	/	/
	T/3	123	194	242	288	473	666	913	1427	2290	/	/
10-16	T/1	151	244	314	360	568	829	1114	1799	/	/	/
	T/2	134	217	275	371	550	787	1036	1656	/	/	/
	T/3	127	211	269	302	502	711	970	1477	2080	/	/
10-24	T/3	124	203	254	336	498	704	903	1378	2073	2615	/
12-14	T/1	161	264	341	393	652	911	1262	1952	/	/	/
	T/2	159	246	286	378	608	851	1184	1859	2571	3523	/
	T/3	145	214	292	344	554	760	1066	1634	2423	3001	/
12-24	T/4	/	/	/	/	498	700	989	1535	2444	3488	3847
	T/5	/	/	/	/	490	702	916	1530	2210	3704	4002
¼ -14	T/1	211	332	431	565	803	1154	/	/	/	/	/
	T/2	169	268	317	433	648	925	1155	/	/	4696	/
	T/3,T/4,T/5	144	234	296	349	613	883	1148	1861	2409	4553	5036
¼ -20	T/3	143	228	274	366	559	784	1008	1681	2545	3557	/
	T/4	/	/	/	/	557	791	1119	1806	2553	4300	4592

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Closure Strips

G-10: A Semi-Rigid Cross Link Polyethylene, Fused Together for a Plywood-Like Lamination. Excellent Weathering Characteristics.
Perma-Tite: Closed Cell Rubber Closure (EPT) Eliminates Moisture Absorption. Excellent Chemical Resistance. Pliable for Easy Handling.

PANEL PROFILE	Pitch of Corr.	Height of Corr.	Width of Strip	Length of Strip	Pcs. Per Box	Ft. Per Box
11/16 Flat Strip for 2-1/2" Vertical	N/A	11/16"	1"	40"	90	300'
2.5" Corrugated	2½"	9/16"	1"	38½"	108	346.5'
2.66" Corrugated	2.66"	½"	1"	36" 39.9"	120 120	360' 399'
2.66" Corrugated	2.66"	9/16"	1"	36"	108	324'
2.67" Corrugated	2.67"	⅞"	1"	36" 41.385"	96 96	288' 331'
4" Box Rib Inner/Outer	4" 4"	1" 1"	1" 1"	40" 40"	66 72	220' I 240' O
4.2" Corrugated/Non-Tapered	4.2"	1 1/16"	1"	39.9"	72	239'
4-7/8" V-Beam	4⅞"	1¾"	1"	36 9/16"	48	146'
5.33" V-Beam	5.33"	1¾"	1"	40"	48	1 60'
Bink Rib/Fabral Hefti-Rib	7.2"	1½"	1"	39.6"	60	198'
Binkley Pan-L Rib Inner/Outer	12" 12"	1½" 1½"	1" 1"	36" 36"	42 42	126' I 126' O
Inner-Butler Rib II Outer-Shadowrib II	12" 12"	1½" 1½"	1" 1"	36" 36"	36 36	108' I 108' O
Cincinnati Regal Rib Inner/Outer	12" 12"	9/16" 9/16"	1" 1"	36" 36"	72 72	216' I 216' O

ADHESIVE BEAD
Additional cost for application of adhesive bead.

All closures also available in other thicknesses. Fire retardant materials available.
Many Closure Configurations not shown ARE AVAILABLE. Call for Price & Delivery.

Same day color match - In house painting

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Perma-Tite: Closed Cell Rubber Closure (EPT) Eliminates Moisture Absorption. Excellent Chemical Resistance. Pliable for Easy Handling.

PANEL PROFILE	Pitch of Corr.	Height of Corr.	Width of Strip	Length of Strip	Pcs. Per Box	Ft. Per Box
R - Panel Inner/Outer	12″	1 ¼″	1″	36″	50	150′ I O
R - Panel with Dovetail Inner/Outer	12″	1¼″	1″	36″	50	150′ I O
M - Panel with Dovetail Inner/Outer	6″	¾″	1″	36″	50	150′ I O
Granite City Strong Panel Inner/Outer	9″ 9″	9/16″ 9/16″	1″ 1″	36″ 36″	72 72	216′ I 216′ O
McElroy Max-Rib Inner/Outer	9″ 9″	¾″ ¾″	1″ 1″	36″ 36″	60 60	180′ I 180′ O
Republic Rigid Rib	3″	½″	1″ 36″	30″	132	396′
Reynolds Rain Lock	2.67″	9/16″	1″	48″	120	480′
Robertson Huski Rib	7″	1½″	1″	38½″	60	192.5′
Wheeling Channel Drain Inner/Outer	6″ 6″	½″ ½″	1″ 1″	36″ 36″	90 90	270′ I 270′ O
Wheeling Panel Drain Inner/Outer	3″ 3″	½″ ½″	1″ 1″	30″ 30″	144 144	360′ I 360′ O
B Deck Outer(Small plug)/Inner(Big plug)	6″ 6″	1½″ 1½″	1″ 1″	36″ 36″	36 36	108′ O 108′ I

ADHESIVE BEAD
Additional cost for application of adhesive bead.

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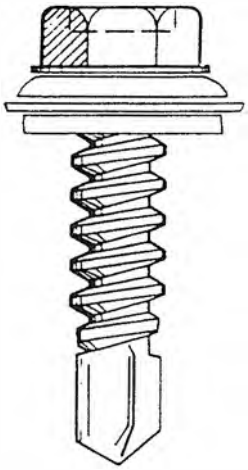
Piasta Multi-Metal Self-Drilling Screws Stainless Steel 18-8

A PATENTED PRODUCT BY PIASTA THAT DRILLS THROUGH STEEL AND STAINLESS BECAUSE THE DRILL POINT IS STEEL



Piasta Multi-Metal Self-Drilling Screws have a steel drill point welded onto a Stainless 18-8 (304) screw. This provides the maximum corrosion resistance of a Stainless head and body combined with the superior drilling capacity of a steel self-drilling point. The screw is then coated with Ruspert for added rust protection and lubricity.

MECHANICAL PROPERTIES AND DRILLING CAPACITY

NOMINAL SCREW SIZE	PLATE THICKNESS	TENSIL STRENGTH	SHEAR BREAKING LOAD	TWIST BREAKING LOAD	THREAD FORMING TORQUE	THREAD PULL-OUT LOAD OF	THREAD BREAKING LOAD	MAXIMUM DRILLING CAPACITY
	0.039				5.64	309	16.1	
#8	0.079				23.86	915	50.08	
	0.126	1,411	917	35.8	26.03		49.0	.091
(4.2MM)	0.166				22.99		49.9	
	0.237							
	0.039				7.38	309	14.8	
#10	0.079				18.66	932	59.4	
	0.126	1,741	1,131	59.0	33.41	1,426	65.1	.126
(4.8MM)	0.166				36.01		86.8	
	0.237				47.29		89.4	
	0.039				8.68	320	12.6	
#12	0.079				19.09	942	52.1	
	0.126	2,380	1,547	08.1	27.33	1,450	60.7	.126
(5.5MM)	0.166				25.60	2,001	85.5	
	0.237				38.18	2,292	98.9	
	0.039				9.54	881	19.5	
#14	0.079				22.99	1.014	61.2	
	0.126	2,321	2,193	150.01	33.41	1,748	63.8	.177
(6.8MM)	0.166				36.44	2,116	101.5	
	0.237				39.48	2,931	162.3	
	in	*1b*	*1b*	*1b-in*	*1b-in*	*1b-in*	*1b*	*in*

Sheer Strength Values are between 65-70% of Tensile Strength. Test results have been obtained with Hot-Rolled Steel Sheets.

All results based on manufacturer's tests, except Shear Breaking Load whose source is estimated values based on Japan Industrial Fastener Association findings.

Test results are for Hex Washer screws; values on Phillips recess will be reduced by approximately 15%.

Data on Tapping Torque, Thread Breaking Load, and Thread Pull-Out are for #3 Point. Values will be increased for #2 Point.

BONDED SEALING WASHERS

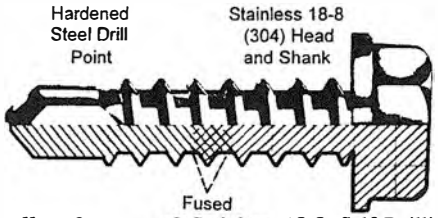
Our Multi-Metal Self-Drilling Screws are available with Neoprene and EDPM bonded Stainless 18-8 washer assemblies to provide seals against liquid, vapor, and air infiltration. The Sealing Washers act as a cushioning agent, dampening vibration and reducing galvanic corrosion between dissimilar metals.

CUSTOM COLORS - PAINTED HEADS

Our screws are available with rugged baked enamel painted heads in an infinite variety of matched colors. Turn-around time is minimal and the quality of the finish is assured.

RUSPERT COATED FOR ENHANCED CORROSION PROTECTION

Ruspert provides triple protection from corrosion. The zinc layer protects the metal from red rust, the film layer makes the zinc inert and the top layer repulses any corrosion and surppresses white rust. Ruspert offers superior resistance to salt water, chemicals, weatherization, corrosive gases as well as inhibiting galvanic corrosion.



FSI offers 2 types of Stainless 18-8 Self-Drilling Screws. Our **Multi-Metal** screw combines a steel drill point with a Stainless 18-8 head and shank to drill through steel and stainless material. The screw is Rustpert coated for added rust protection and lubricity.

MULTI-METAL SELF-DRILLING SCREWS
Material Length & Drilling Capacity

SCREW SIZE	MINIMUM LENGTH UNDER HEAD	MINIMUM LENGTH STAINLESS 18-8 PART	MINIMUM LENGTH STEEL PT. & ATTACHMENT AREA	MAXIMUM DRILLING CAPACITY
#6	1/2"	.275"	.236"	.091"
#8	1/2"	.275"	.236"	.091"
#10	3/4"	.335"	.413"	.126"
#12	3/4"	.394"	.354"	.126"
#14	1"	.413"	.571"	.177"

We put the *fast* in fasteners

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Corrosion-Resistant Fasteners

ULTIMATE™ ZINC-HEADED FASTENERS— 5/16" AND 3/8" HEADS.

New from Atlas, UltiMate zinc-headed self-drilling or self-tapping screws offer the most corrosion-resistant way to fasten all types of long-life panels such as Galvalume® or Steelox®.

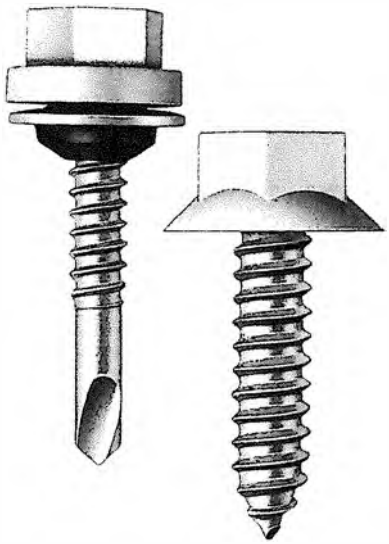
Atlas UltiMate fasteners are not merely capped, they're *cast* with a full 1/16" of zinc alloy. The head is inseparable from the carbon steel shank.

Not only is our zinc head *thicker*, the zinc itself is of better quality because Atlas uses the hardest zinc alloy available. Capped fasteners must use a softer zinc alloy because the cap must be crimped around the head.

Every UltiMate zinc-headed fastener includes a PVC sealing washer housed in the undercut hex head. Tests with these fasteners driven into high-pressure air tanks have proven them to be airtight.

We warrant* that the zinc-alloy head will remain free of red rust for the life of the building.

UltiMate self-drillers feature the ULTRA-Z milled point that starts cutting faster, with less pressure, to eliminate walking and increase productivity.



NYLON-HEADED FASTENERS—7/16" HEADS COLORMATE® AND COLORDRILL® NYLON-HEADED SCREWS

Atlas ColorMate and ColorDrill nylon-headed screws, available in carbon or stainless steel, look great and last long. Both have a rigid-collar head molded from a tough thermoplastic—Dupont ZYTEL® 101 nylon resin. The nylon head is reinforced with fiberglass. The chemical bond between the nylon and glass fibers helps the head retain its physical properties regardless of exposure to ultraviolet radiation, heat and moisture. It also increases the resistance to torque damage during application.

The head is permanently joined to a hardened steel shank by injection molding for a good connection and high pull-over values. Choose from two head styles.

ColorDrill screws feature the ULTRA-Z point which drills faster, eliminates walking and improves productivity.

Uncommonly durable, decorative and economical, nylon-headed fasteners will match or surpass the service life of modern-day industrial sheeting. They are warranted for 20 years. To match your color of sheeting, just let us know. Precise color matching is one of our specialties.

COLORMATE IS AVAILABLE IN BOTH SELF-DRILLING & TAPPING VERSIONS

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
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(800) 232-5060
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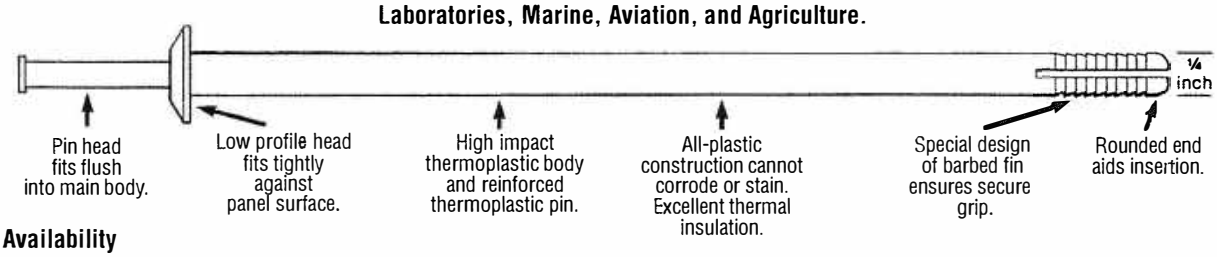
Drive Rivets - High Impact Thermoplastic

These Drive Rivets are approved by the USDA and are specified for panel installations and all types of fastening jobs in Building, Construction, Transportation, Food Processing, Kitchens, Cold Storage, Laboratories, Marine, Aviation, and Agriculture.



Availability
Diameter: 1/4 inch
Lengths: 3/4", 1", 1 1/2", 2, 3, 4, 5, 6
Color: White, Beige, Grey, Blue, Gold, Cream, Pumpkin, Brown, Yellow, Green, Black

Description
These Drive Rivets are very easy to use without the need for special tools or skills.

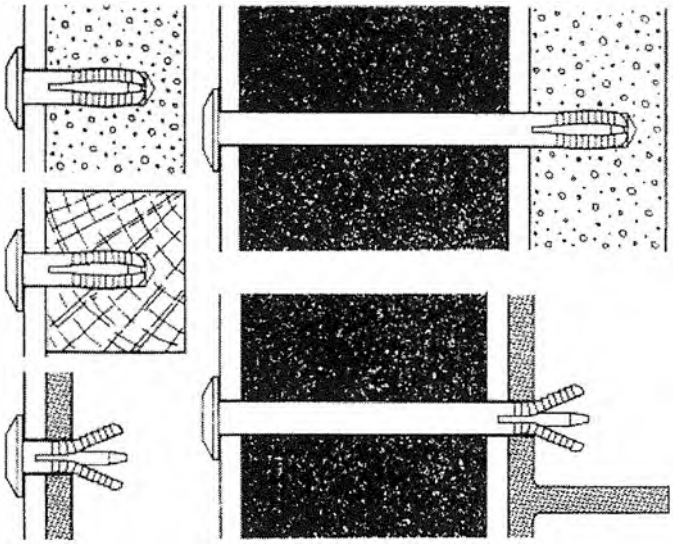
They are injection molded from top quality compounds which are completely non-toxic, colorfast and fully stabilized for long life and maximum performance.

Correct design ensures that the low profile head gives a snug surface fit to prevent snagging or accumulation of dirt. All-plastic construction cannot corrode or stain and aids thermal insulation.

Fixing
Instruction leaflet supplied with fasteners.

Uses
Instruction leaflet supplied with fasteners. These Drive Rivets are ideal for fastening panels, sheets and wall fixtures. They can be used for fixing to any solid substrate such as brick, stone, concrete, steel, timber and they will also grip securely behind frameworks of metal or wood.

The longer rivets are used for fastening through thick materials such as cork or foam insulation block.



Standard Colors:
Standard Colors are White, Beige, Gray, Cream (colonial white/cream) 5" and 6" sizes stocked in white only.
Special Colors:
Blue, Gold, Pumpkin, Brown , Yellow, Green and Black

More versatile and more reliable than adhesives:
- These Rivets do not age-harden, dry out or lose bond strength over a period of time.
- Rivets give permanent, visible evidence of secure fastening. Nothing out of sight to deteriorate.
- Rivets do not give off odors, do not need primers or special surface preparations.
- Rivets can be used just about anywhere, including wet areas. No waiting- No mess.

FSI STOCKS NYLON THREADED ROD

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
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(610) 692-6658
FAX (610) 692-8151

Nylon Panel Bolts, Threaded Rod, Nuts & Washers

Nylon Threaded Rods, Nuts and Washers

- **Carriage style bolts available in Hex-head**
- **1/4", 3/8", 1/2", 5/8" and 3/4" and other sizes available**
- **Lengths up to 36"**
- **Rod lengths up to 8'**

High-quality machine-threaded bolts and rods for medium-heavy duty industrial applications. Full range of injection-molded threaded accessories

Excellent thermal insulation properties, tough, lightweight, sanitary, will not taint, corrode or stain. U.S.D.A. approved.

Description and Technical Data:

• These Nylon threaded fasteners are designed for applications in the light to medium-heavy load range. Although designed especially for cold-storage work, they are also useful for any type of assembly or fastening work requiring a tough, lightweight material.

• Used in many industries such as Cold Storage, Freezer Plants, Food & Drink Processing, Kitchens, Clean-rooms, Laboratories, Hospitals, Transportation, Marine, Aviation, Chemical, Electrical, etc. Ideal for use in sanitation areas.

• These lightweight fasteners are very easy to use without need of special tools. A little extra care in tightening the nuts will ensure a fastening job of excellent appearance and endurance. The maximum safe working loads should be observed.

• Nylon will not taint, corrode, or stain, requires no special surface preparation and can be used immediately - even in wet conditions. Nylon threaded fasteners are accepted by U.S.D.A. in Federally inspected establishments.

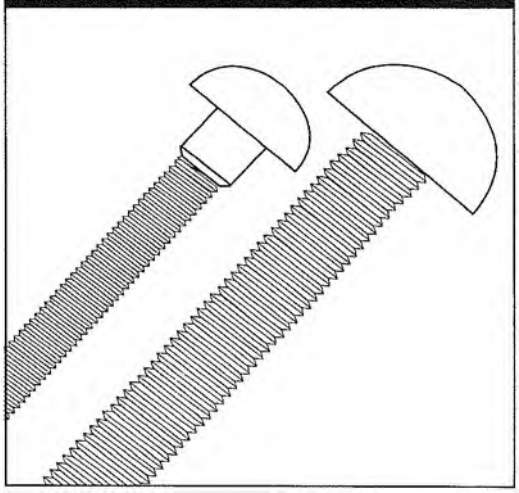
Material
Nylon type 6, one of the hardest and strongest grades of engineering thermoplastic.

Quality
All plain rod used for machining bolts and threaded rods is 100% crack tested and tensile strength is accurately controlled. Careful inspection includes testing each length with the aid of light boxes or ultrasonics to eliminate flaws or inclusions prior to threading. Mechanical strength properties are more critically controlled than for commercial nylon.

Sizes
Isometric course to DIN 975
Diameters in mm: M4, M6, M8, M10, M12, M16, M20mm
(Diameters in inches: 1/4", 3/8", 1/2", 5/8", and 3/4")
Lengths
Any length up to 8 inches long.

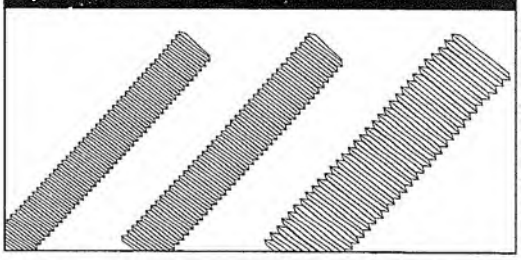
Tightening & Use of Nuts
Nuts should be tightened by hand and given half-a-turn with a spanner. Care should be taken not to overtighten nuts when used with any threaded plastic. We do not recommend the use of steel nuts with threaded plastics.

Nylon round head panel bolts



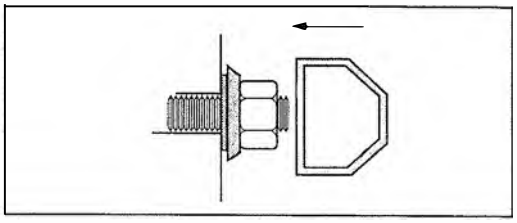
A product offering a range of different head shapes insert-molded onto nylon threaded rod. Far stronger than any all-molded bolt and less costly than machining from solid bar.
Typical applications include: insulation panels, door frames, light fittings, bump rails, suspending lightweight evaporators, ducts, electrical gear, etc.

Nylon threaded rod



Nylon snap-on caps

Designed for M6, M10, and M12 sized nuts (1/4", 3/8", 1/2", 3/4", 5/8") these snap-on caps greatly improve the appearance of any installation and can be used with metal or plastic nuts. By concealing nut & exposed thread, they prevent snagging, staining and possible build-up of dirt or debris which may harbor bacteria.



Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
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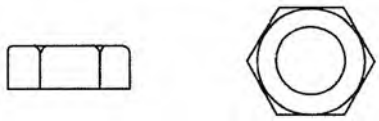
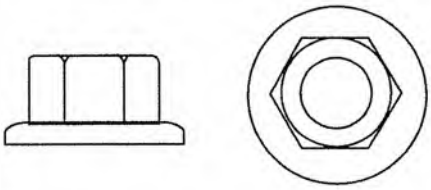
FAX (610) 692-8151

Nylon Panel Bolts, Threaded Rod, Nuts & Washers

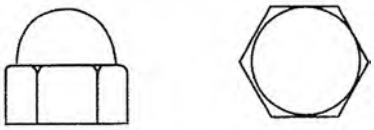
Nylon Hexagonal Full Nuts



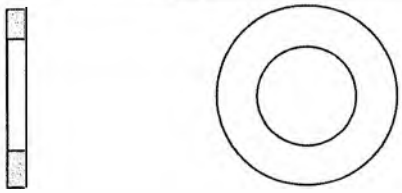
Nylon Washer Faced Nuts



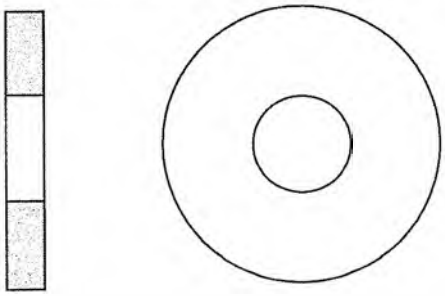
Nylon Domehead Cap Nuts



Nylon Standard Washers



Nylon Loadspreading Washers



Physical Properties- Nylon Type 6.6

ASTM Test Methods and Results		Nylon 6.6
Melting temperature, crystalline° C		210-220
Tensile strength at break, psi	D638	6000-24,000
Elongation at break, %	D638	3-100, 300
Tensile yield strength, psi	D638	11,700-7400
Compressive strength, psi	D695	13,000-16,000
Flexural strength, psi	D790	15,700, 5800
Tensile modulus, 10^3 psi	D638	380-100
Compressive modulus, 10^3 psi	D695	250
Izod impact ft-lb/in. of notch	D256A	0.6-2.2, 3.0
(1/8" thick specimen)		R119
Hardness Rockwell scale	D785	80-83
Coef. of linear expansion	D696	
10^{-6} in/in/°C		5.8
Thermal conductivity, 10^{-4} cal/cm/	C177	
sec-cm^2-°C		
Specific gravity	D792	1.12-1.14
Water absorption % 24hr	D570	1.3-1.9
(1/8" thick specimen) saturation		8.5-10.0
Chemical resistance		Good
Flammability	D635	Self-extinguishing
Tolerance on length: plus or minus 2%		Slow burning
Tolerance on diameter: plus or minus 4%		

Chemical Resistance- Nylon Type 6.6

Resistant to:	Not Resistant to:
Common solvents	Phenols, cresols
Lubricants	Formic Acid
Hydrocarbons,	Concentrated Mineral acids
Esters, ketones	and alkalis
Aqueous solutions of acids and	Strong oxidizing agents
alkalis between pH5 and pH11	including the halogens

Non-Warranty: All information is offered in good faith but without warranty, either express or implied. Application advice is freely available but all risks must be assumed by the user. We will accept no liability for any consequential loss or damage other than free replacement of any defective product supplied by the corporation, provided that proper storage and handling has been observed. We reserve the right to change design material specifications at any time without notice.

640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382

(800) 232-5060
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Features

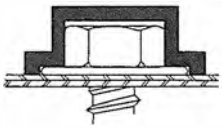
- Hex head or lock rivet shapes
- Made from EVA copolymer resins
- Available in many standard colors; others can be special ordered to meet your needs

Benefits

- Resistant to ultraviolet radiation and weather degradation
- Will not chip or flake, unlike painted fasteners
- Resistant to chemical exposure

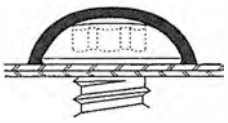
Hex Head Color Cap

Roofing or siding applications; covers 3/8" hex head



Lock Rivet Color Cap

Roofing or siding applications



**ADDITIONAL STYLES, SIZES AND COLORS ARE AVAILABLE.
CONTACT YOUR FSI REPRESENTATIVE FOR COMPLETE DETAILS.**

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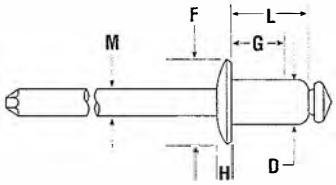
CELUS INDUSTRIAL RIVETS

DOMED HEAD

Celus Industrial Quality aluminum/aluminum rivets are a low cost alternative to screws, bolts or spot welding. They conform to the IFI specification 114 and are quick and easy to install with hand or power tools. Both aluminum bodies and mandrels have a polished finish and are sealed to prevent discoloration.



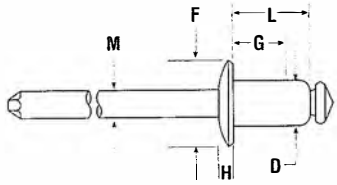
Aluminum Rivet/Aluminum Mandrel

(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia.	(F) Flange Dia.	(H) Head Height	(L) Barrel Length	Celus Part Number	(G) Grip Range	Typical Ultimate Strength * Shear	Tensile
1/8	129-.133 #30	076	250	.032	275	A/A42D	.020-.125	129 lbs	176 lbs
					337	A/A43D	.126-.187		
					400	A/A44D	.188-.250		
					462	A/A45D	.251-.312		
					525	A/A46D	.313-.375		
					650	A/A48D	.376-.500		
5/32	.160-.164 #20	095	.312	.039	300	A/A52D	.020-.125	187 lbs	263 lbs
					425	A/A54D	.126-.250		
					550	A/A56D	.251-.375		
3/16	.192-.196 #11	114	.375	.047	325	A/A62D	.020-.125	262 lbs	375 lbs
					450	A/A64D	.126-.250		
					575	A/A66D	.251-.375		
					.700	A/A68D	.376-.500		
					825	A/A610D	.501-.625		

Max. Barrel Length per IFI 114

DOMED HEAD

Celus Industrial Quality aluminum/steel rivets also conform to IFI specification 114. The aluminum bodies are polished and sealed to prevent discoloration. The carbon steel mandrels are plain finish with a corrosion protective coating.



Aluminum Rivet/Steel Mandrel

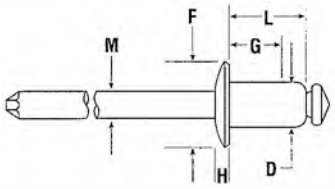
(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia.	(F) Flange Dia.	(H) Head Height	(L) Barrel Length	Celus Part Number	(G) Grip Range	Typical Ultimate Strength * Shear	Tensile
1/8	129-.133 #30	076	250	032	275	A/S42D	.020-.125	210 lbs	325 lbs
					.337	A/S43D	.126-.187		
					.400	A/S44D	.188-.250		
					.525	A/S46D	.251-.312		
5/32	.160-.164 #20	095	.312	.039	.300	A/S52D	.020-.125	340 lbs	490 lbs
					.425	A/S54D	.126-.250		
					.550	A/S56D	.251-.375		
3/16	.192-.196 #11	.114	.375	.047	.325	A/S62D	.020-.125	445 lbs	720 lbs
					.450	A/S64D	.126-.250		
					.575	A/S66D	.251-.375		
					.700	A/S68D	.376-.500		
					.825	A/S610D	.501-.625		

Values shown are a guide only and may vary depending upon the application

Max. Barrel Length per IFI 114

DOMED HEAD

Celus Industrial Quality steel/steel rivets also conform to IFI specification 114. The steel rivet bodies are zinc plated with a dichromate protective coating. The carbon steel mandrels are plain with a corrosion protective coating.



Steel Rivet/Steel Mandrel

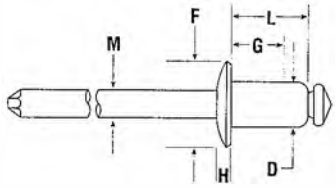
(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia.	(F) Flange Dia.	(H) Head Height	(L) Barrel Length	Celus Part Number	(G) Grip Range	Typical Ultimate Strength * Shear	Tensile
1/8	.129-.133 #30	076	250	032	.275	S/S42D	.020-.125	295 lbs	425 lbs
					337	S/S43D	.126-.187		
					400	S/S44D	.188-.250		
					525	S/S46D	.251-.375		
5/32	.160-.164 #20	.095	312	039	300	S/S52D	020-.125	410 lbs	570 lbs
					425	S/S54D	126-.250		
					550	S/S56D	251-.375		
3/16	.192-.196 #11	114	375	047	325	S/S62D	020-.125	590 lbs	815 lbs
					450	S/S64D	126-.250		
					575	S/S66D	251-.375		
					700	S/S68D	376-.500		
					825	S/S610D	501-.625		

Max. Barrel Length per IFI 114

DOMED HEAD

Celus offers painted rivets from stock in six popular colors. They are offered in our low cost Industrial Quality aluminum/aluminum in white, black, brown, bronze, cream, and ivory, and in steel/steel in white and black. Painted rivets can be packaged in a wide variety of containers including poly bags, plastic tubs, small placon boxes, Celus small packs and bulk containers.

Celus invites your requests for quotation on any custom colored or special plated rivets with minimum quantities of only 20M required. Private label packaging and poly bag orders can also be arranged.



Painted Rivets – Aluminum/Aluminum

(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia.	(F) Flange Dia.	(H) Head Height	(L) Barrel Length	Celus Part Number	(G) Grip Range	Typical Ultimate Strength * Shear	Tensile
1/8	129-.133 #30	076	250	032	275	A/A42DP	020-.125	129 lbs	176 lbs
					337	A/A43DP	126-.187		
					400	A/A44DP	188-.250		
					525	A/A46DP	251-.375		

Max. Barrel Length per IFI 114

Painted Rivets – Steel/Steel

(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia.	(F) Flange Dia.	(H) Head Height	(L) Barrel Length	Celus Part Number	(G) Grip Range	Typical Ultimate Strength * Shear	Tensile
1/8	.129-.133 #30	.076	.250	.032	.275	S/S42DP	.020-.125	295 lbs	425 lbs

Max. Barrel Length per IFI 114

Values shown are a guide only and may vary depending upon the application

Communication is the key to FSI's success

640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382

(800) 232-5060
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FAX (610) 692-8151

CELUS HI-SHEAR RIVETS

DOMED HEAD

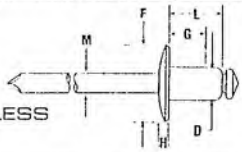
Celus Hi-Shear stainless steel rivets offer the highest strength and purity and help to improve the quality of the finished product with a neat, mar-free surface. Both rivet bodies and mandrel are 300 series stainless steel and exceed the IFI specification 114.

Stainless Rivet/Stainless Mandrel

(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia.	(F) Flange Dia.	(H) Head Height	(L) Barrel Length	Celus Part Number	(G) Grip Range	Typical Ultimate Strength* Shear	Tensile
3/32	.096-.100 #41	.057	.188	.024	.250	SS/SS32D	.020-.125	260 lbs	335 lbs
					.375	SS/SS34D	.126-.250		
1/8	.129-.133 #30	.076	.250	.032	.212	SS/SS41D	.020-.062	550 lbs	700 lbs
					.275	SS/SS42D	.063-.125		
					.337	SS/SS43D	.126-.187		
					.400	SS/SS44D	.188-.250		
					.462	SS/SS45D	.251-.312		
					.525	SS/SS46D	.313-.375		
					.650	SS/SS48D	.376-.500		
5/32	.160-.164 #20	.095	.312	.039	.300	SS/SS52D	.020-.125	650 lbs	820 lbs
					.425	SS/SS54D	.125-.250		
					.550	SS/SS56D	.251-.375		
					.675	SS/SS58D	.376-.500		
					.800	SS/SS510D	.501-.625		
3/16	.192-.196 #11	.114	.375	.047	.325	SS/SS62D	.020-.125	1000 lbs	1375 lbs
					.387	SS/SS63D	.126-.187		
					.450	SS/SS64D	.188-.250		
					.575	SS/SS66D	.251-.375		
					.700	SS/SS68D	.376-.500		
					.825	SS/SS610D	.501-.625		
1/4	.257-.261 F	.151	.500	.069	.500	SS/SS84D	.020-.250	1400 lbs	1920 lbs
					.625	SS/SS86D	.251-.375		
					.750	SS/SS88D	.376-.500		

Max Barrel Length per IFI 114

LARGE FLANGE



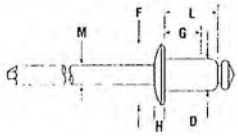
Stainless Rivet/Stainless Mandrel

(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia.	(F) Flange Dia.	(H) Head Height	(L) Barrel Length	Celus Part Number	(G) Grip Range	Typical Ultimate Strength* Shear	Tensile
1/8	.129-.133 #30	.076	.375	.057	.275	SS/SS42LF	.020-.125	550 lbs	700 lbs
3/16	.192-.196 #11	.114	.625	.065	.575	SS/SS66LF	.250-.375	1000 lbs	1375 lbs
					.825	SS/SS610LF	.500-.625		
					.950	SS/SS612LF	.626-.750		

Max Barrel Length per IFI 114

DOMED HEAD

Celus offers copper rivet bodies with either a solid brass mandrel or a copper plated steel mandrel. Recommended where corrosion protection is required or for decorative applications, these rivets exceed the IFI specifications 114. Copper/brass rivet bodies are copper alloy with a bright lacquer finish and have a polished brass mandrel.



Copper/steel rivet bodies are copper alloy with a bright lacquer finish and have a carbon steel, copper plated mandrel.

Copper Rivet/Solid Brass Mandrel

(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia.	(F) Flange Dia.	(H) Head Height	(L) Barrel Length	Celus Part Number	(G) Grip Range	Typical Ultimate Strength* Shear	Tensile
1/8	.129-.133 #30	.076	.250	.032	.275	C/B42D	.020-.125	215 lbs	300 lbs
					.400	C/B44D	.126-.250		

CELUS CLOSED-END RIVETS

DOMED HEAD

Aluminum/aluminum closed-end rivets are the choice to make where a tight, leakage resistant seal is required. Conforming to all IFI specification 126 requirements, rivet bodies are 1100 aluminum alloy with aluminum mandrels.

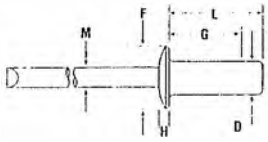
Aluminum Rivet/Aluminum Mandrel

(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia.	(F) Flange Dia.	(H) Head Height	(L) Barrel Length	Celus Part Number	(G) Grip Range	Typical Ultimate Strength* Shear	Tensile
1/8	.129-.133 #30	.073	.238	.050	.300	A42AD-CE	.020-.125	100 lbs	110 lbs
					.422	A43AD-CE	.126-.187		
					.485	A44AD-CE	.188-.250		
					.610	A46AD-CE	.251-.375		
5/32	.160-.164 #20	.091	.312	.065	.500	A54AD-CE	.020-.250	130 lbs	160 lbs
3/16	.192-.196 #11	.109	.375	.080	.406	A62AD-CE	.020-.125	210 lbs	250 lbs
					.531	A64AD-CE	.126-.250		
					.656	A66AD-CE	.251-.375		
					.781	A68AD-CE	.376-.500		

Max Barrel Length per IFI 126

DOMED HEAD

Celus aluminum/steel closed-end rivets offer greater tensile and shear strength than open-end rivets and provide much better mandrel retention, as well as leakage resistance. Meeting the IFI specification 126, the rivet bodies are aluminum alloy with carbon steel mandrels, both having a protective coating.

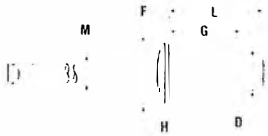


Aluminum Rivet/Steel Mandrel

(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia.	(F) Flange Dia.	(H) Head Height	(L) Barrel Length	Celus Part Number	(G) Grip Range	Typical Ultimate Strength* Shear	Tensile
1/8	.129-.133 #30	.073	.238	.050	.360	A42D-CE	.020-.125	240 lbs	280 lbs
					.422	A43D-CE	.126-.187		
					.485	A44D-CE	.188-.250		
					.610	A46D-CE	.251-.375		
5/32	.160-.164 #20	.091	.312	.065	.500	A54D-CE	.020-.250	350 lbs	480 lbs
3/16	.192-.196 #11	.109	.375	.080	.406	A62D-CE	.020-.125	500 lbs	690 lbs
					.531	A64D-CE	.126-.250		
					.656	A66D-CE	.251-.375		
					.781	A68D-CE	.376-.500		
1/4	.257-.261 F	.142	.500	.098	.570	A84D-CE	.126-.250	900	1100
					.695	A86D-CE	.251-.375		

Max Barrel Length per IFI 126
*Values shown are a guide only and may vary depending upon the application

DOMED HEAD



Stainless Rivet/Stainless Mandrel

(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia.	(F) Flange Dia.	(H) Head Height	(L) Barrel Length	Celus Part Number	(G) Grip Range	Typical Ultimate Strength* Shear	Tensile
1/8	.125-.133 #30	.073	.238	.050	.422	SS43SSD-CE	.020-.187	495 lbs	495 lbs
3/16	.192-.196 #11	.109	.375	.080	.531	SS64SSD-CE	.126-.250	969 lbs	989 lbs

Max Barrel Length per IFI 126

Fastener Systems, Inc.
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DESA INTERNATIONAL

- Fastens metal, leather, canvas and vinyl in seconds
- Hardened steel construction
- Extended nose piece for hard to reach locations
- Comfortable non-slip handle grips
- Interchangeable nose pieces included with tool
- Sets 3 sizes of rivets: 1/8", 5/32" and 3/16"

Rivet Tool
No. 00113
- Ideal for typical DIY applications around the home and workshop

Buy Pack
Quantity: 6 Units
Master Pack
Quantity: 24 Units
Weight: 28 lbs. Cube: 0.64
Dimensions: 15-1/4" x 9-1/4" x 7-3/4"

Professional Rivet Tool
No. 00601
- Ideal for the heavy use DIYer and tradesman
- Longer handles allow for easy use
- Includes nose piece wrench

Buy Pack
Quantity: 6 Units
Master Pack
Quantity: 24 Units
Weight: 34 lbs. Cube: 0.86
Dimensions: 17-3/4" x 11" x 7-3/4"

Swivel-Head Professional Rivet Tool
No. 37001
- Ideal for the tradesman and heavy use DIYer
- Rivet head swivels 360° for riveting at any angle
- Improved handle leverage allows for easy use
- Includes nose piece wrench

Buy Pack
Quantity: 6 Units
Master Pack
Quantity: 24 Units
Weight: 43 lbs. Cube: 1.02
Dimensions: 17-3/4" x 12-3/4" x 7-3/4"

Product selection and value that meets your customers' riveting needs

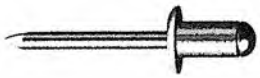
Packaged in reusable vinyl storage pouch

AccuBird

12 Volt Cordless Riveting

Blind Rivet Diameter	Material	Pcs. per Battery Charge	Standard Nosepiece	Retaining Nosepiece
3/32 (2.4mm)	alu/steel	1,900	17/18	17/18R
1/8 (3.0 and 3.2 mm)	alu/steel	1,300	17/24	17/24R
1/8 (3.0 and 3.2 mm)	all steel	1,100	"	"
1/8 (3.0 and 3.2 mm)	all stainless steel	1,000	"	"
5/32 (4.0 mm)	alu/steel	1,000	17/27	17/27R
5/32 (4.0 mm)	all steel	900	"	"
5/32 (4.0 mm)	all stainless steel	800	"	"
3/16 (4.8 and 5.0 mm)	alu/steel	700	17/32	17/32R
3/16 (4.8 and 5.0 mm)	all steel	500	"	"
3/16 (4.8 and 5.0 mm)	all stainless steel	400	"	"

Work Capacity: *3/32" to 3/16" blind rivets*
Weight: *4.8 lbs. (2.2 kg)*
Working Stroke: *.79" (20 mm)*
Traction Power: *1,900 lbs. (8,500 N)*
Power Pack: *12 Volt, rechargeable NiCad*
Battery Charger: *110V/60Hz, 60 minute charge time*



Retaining nosepieces hold rivet securely in the tool nose prior to setting the rivet.

Extra length nosepieces are available.

Same day color match - In house painting

Fastener Systems, Inc.

640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382

(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

Part Number Identification

R V 66 0 4-6-8w

- OLYMPIC BULB-TITE
- Rivet Material: 0 - Aluminum, 7 - Steel, 9 - Monel
- Head Style: 1 - Countersunk Head; 2 - Flat Head; 3 - 9- Diameter Dome Head (Protruding Crown); 4 - Dome Head (Protruding Crown); 5 - Large Flange Head; 6 - Dome Head (Recessed Crown); 7 - Dome Head (Shaveable)
- Nominal Diameter in 1/32 Inch
- Maximum Grip in 1/16 Inch
- Washer for Weather Resistance (Opt.)

A Body Diameter

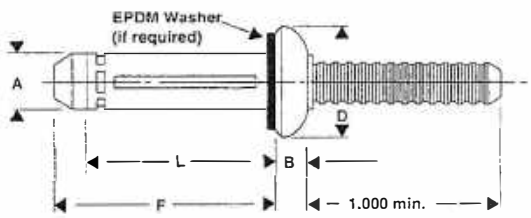
B Head Height

D Head Diameter

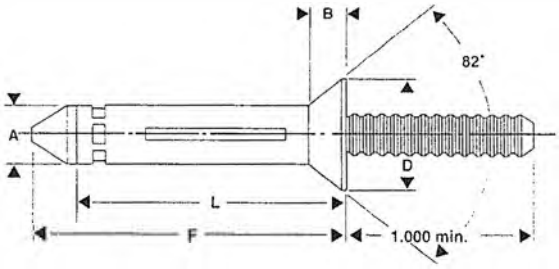
F Blind Side Protrusion

L Rivet Body Length

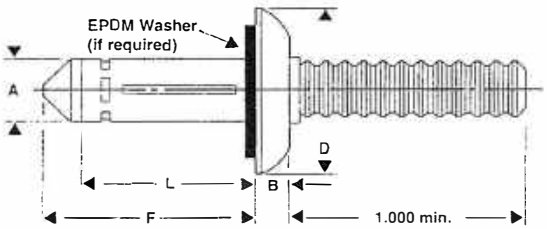
RV6604 Dome Head (Protruding Crown)



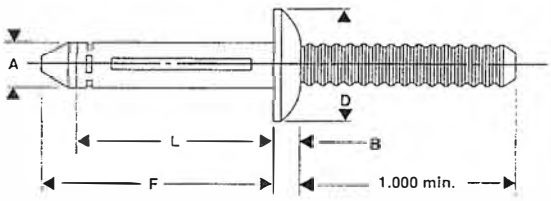
RV6601 Countersunk Head (82°)



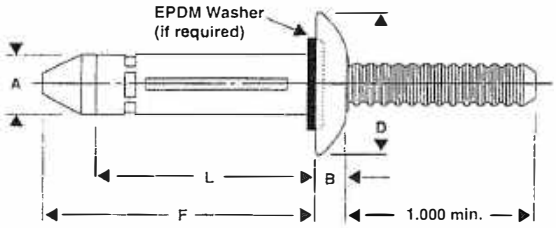
RV6605 Large Flange Head (Protruding Crown)



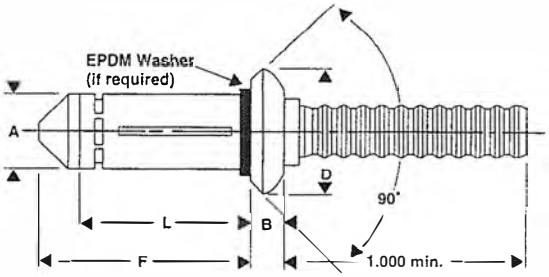
RV6602 Low Profile Flat Head



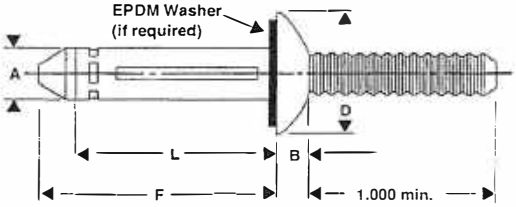
RV6606 Dome Head (Recessed Crown)



RV6603 Dome Head (Protruding Crown)



RV6607 Shaveable Brazier Head



WE PAINT BULB TITE RIVETS

When the last thing you think about is fasteners....think about us first

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

Bulb-tite® Blind Rivets

BULB-TITE BLIND RIVETS

WE STOCK RIVETING TOOLS FOR BULB TITE RIVETS

	Head Style	Max. A	Part Number	Grip Range	Hole Size Drill No.	Nominal Dimensions L	B	D	F	Typical Values In Pounds Shear	Tensile	Clamp-up
Aluminum Rivet/ Aluminum Mandrel	*Countersunk*	.205	RV6601-6-4	.106-.250	(.209–.221)	.750	.103	.372	.935	740	460	130
			RV6601-6-6	.187-.375	#4	.875			1.060			
			RV6601-6-8	.312-.500		1.000			1.185			
			RV6601-6-10	.437-.625		1.125			1.310			
			RV6601-6-12	.563-.750		1.250			1.435			
		.246	RV6601-8-4	.150-.250	(.250–.263)	.795	.147	.480	1.005	1100	675	250
			RV6601-8-6	.187-.375	#E	.920			1.130			
			RV6601-8-8	.250-.500		1.045			1.255			
	Low Profile Flat Head	.161	RV6602-5-4	.125-.250	(.162–.167)	.770	.043	.367	.862	465	245	80
			RV6602-5-6	.187-.375	#20	.832			.987			
			RV6602-5-8	.250-.500		.957			1.112			
		.205	RV6602-6-4	.125-.250	(.209–.221)	.750	.057	.443	.935	740	460	130
			RV6602-6-6	.187-.375	#4	.875			1.060			
			RV6602-6-8	.250-.500		1.000			1.185			
			RV6602-6-10	.375-.625		1.125			1.310			
			RV6602-6-12	.500-.750		1.250			1.435			
	Dome Head	.304	RV6603-9-3	.032-.187	(.308–.327)	843	.145	.615	1.000	1500	1100	375
			RV6603-9-6	.032-.375	5/16	1,090			1.325			
			RV6603-9-10	.250-.625		1,340			1.575			
			RV6603-9-12	.375-.750		1,465			1.700			
	Dome Head	.161	RV6604-5-4	.067-.250	(.162–.167)	.770	.069	.343	.925	465	245	80
			RV6604-5-8	.250-.500	#20	.957			1.112			
		.205	RV6604-6-3	.050-.187	(.209–.221)	.687	.088	.443	.872	740	460	130
			RV6604-6-4	.062-.250	#4	.750			.935			
			RV6604-6-6	.187-.375		.875			1.060			
			RV6604-6-8	.312-.500		1.000			1.185			
			RV6604-6-10	.437-.625		1.125			1.310			
			RV6604-6-12	.563-.750		1.250			1.435			
		.246	RV6604-8-4	.062-.250	(.250–.263)	.795	.113	.560	1.005	1100	675	250
			RV6604-8-6	.125-.375	1/4	.920			1.130			
			RV6604-8-8	.250-.500		1.045			1.235			
			RV6604-8-10	.375-.625		1.170			1.360			
	Large Flange	.304	RV6605-9-6	.042-.375	(.308–.327)	1.090	.145	.743	1.325	1500	1100	375
			RV6605-9-10	.250-.625	5/16	1.340			1.575			
			RV6605-9-12	.375-.750		1.465			1.700			
	Low Profile Dome Head	.205	RV6606-6-3	.050-.187	(.209–.221)	.687	.094	.469	.872	740	460	130
			RV6606-6-4	.062-.250	#4	.750			.935			
			RV6606-6-6	.187-.375		.875			1.060			
			RV6606-6-8	.312-.500		1.000			1.185			
			RV6606-6-10	.437-.625		1.125			1.310			
			RV6606-6-12	.563-.750		1.250			1.435			
		.246	RV6606-8-4	.040-.250	(.250–.263)	.795	.111	.543	1.005	1100	675	250
			RV6606-8-6	.125-.375	1/4	.920			1.130			
			RV6606-8-8	.250-.500		1.045			1.255			
			RV6606-8-10	.375-.625		1.170			1.380			
Steel Rivet/ Steel Mandrel	*Countersunk*	.246	RV6671-8-4	.150-.250	(.250–.263)	.895	.147	.494	1.005	1835	1000	500
			RV6671-8-6	.187-.375	1/4	1.020			1.130			
			RV6671-8-8	.250-.500		1.145			1.355			
	Low Profile Dome Head	.246	RV6676-8-4	.040-.250	(.250–.263)	.795	.111	.542	1.005	1850	1025	500
			RV6676-8-6	.125-.375	1/4	.920			1.130			
			RV6676-8-8	.250-.500		1.045			1.255			
			RV6676-8-10	.375-.625		1.170			1.380			
Monel Rivet/ Stainless Steel Mandrel	*Dome Head*	.246	RV6696-8-4	.040-.250	(.250–.263)	.795	.111	.542	1.005	2100	1455	450
			RV6696-8-6	.125-.375	1/4	.920			1.130			
			RV6696-8-8	.250-.500		1.045			1.255			
			RV6696-8-10	.375-.625		1.170			1.360			
Aluminum Rivet/ Aluminum Mandrel	*Shaveable Series*	.161	RV6607-5-5	.020-.312		.800	.072	.312	.920	465	245	80
		.205	RV6607-6-6	.050-.375		.875	.094	.469	1.060	740	460	130
		.205	RV6607-6-8	.050-.500		1.000	.094	.469	1.185	740	460	130
		.246	RV6607-8-8	.050-.500		1.045	.120	.469	1.235	1100	675	250

We put the *fast* in fasteners

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

PORTABLE RIVETING TOOLS

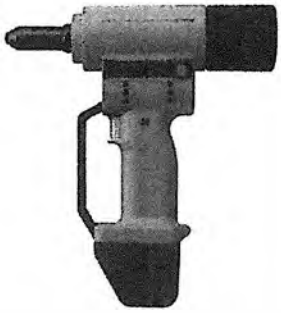
GESIPA applied it's more than 40 years of expertise in the design and manufacture of quality blind rivet tools to the development of a revolutionary new product line. The proven benefits of battery powered portable tooling are combined with innovative design features to form the AccuBird®, PowerBird®, and FireBird® family of blind rivet tools. GESIPA battery powered portables offer high utility and provide performance equal to industrial grade pneumatic/hydraulic power riveting tools. All three GESIPA portables come in their own rugged steel carrying case along with battery charger and a 12 volt long life rechargeable battery.

The AccuBird® sets 3/32" to 3/16" diameter standard blind rivets. Choose the PowerBird® for heavy-duty applications installing 1/4" diameter standard and structural blind rivets. GESIPA'S FireBird® installs blind rivet nuts. The tool's precise (spin-on/pull/spin-off) setting method yields consistent quality rivet nut installation. The Fire Bird® comes equipped with standard nose tips for 8-32, 10-32, and 1/4-20 size rivet nuts. See the chart for optional nose tip sizes.

Safety, utility, reliability and long service life make the "Bird" family a logical alternative to conventional blind riveting tools.

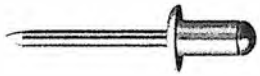
12 Volt Cordless Riveting

AccuBird



Blind Rivet Diameter	Material	Pcs. per Battery Charge	Standard Nosepiece	Retaining Nosepiece
3/32 (2.4mm)	alu/steel	1,900	17/18	17/18R
1/8 (3.0 and 3.2 mm)	alu/steel	1,300	17/24	17/24R
1/8 (3.0 and 3.2 mm)	all steel	1,100	"	"
1/8 (3.0 and 3.2 mm)	all stainless steel	1,000	"	"
5/32 (4.0 mm)	alu/steel	1,000	17/27	17/27R
5/32 (4.0 mm)	all steel	900	"	"
5/32 (4.0 mm)	all stainless steel	800	"	"
3/16 (4.8 and 5.0 mm)	alu/steel	700	17/32	17/32R
3/16 (4.8 and 5.0 mm)	all steel	500	"	"
3/16 (4.8 and 5.0 mm)	all stainless steel	400	"	"

Work Capacity: *3/32" to 3/16" blind rivets*
Weight: *4.8 lbs. (2.2 kg)*
Working Stroke: *.79" (20 mm)*
Traction Power: *1,900 lbs. (8,500 N)*
Power Pack: *12 Volt, rechargeable NiCad*
Battery Charger: *110V/60Hz, 60 minute charge time*



Retaining nosepieces hold rivet securely in the tool nose prior to setting the rivet.

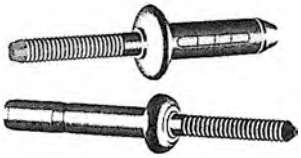
Extra length nosepieces are available.

12 Volt Cordless Riveting

PowerBird

Blind Rivet Diameter	Material	Pcs. per Battery Charge	Standard Nosepiece
STANDARD			
1/4" (6.4mm)	alu/steel	250	17/45
1/4" (6.4mm)	steel/steel	150	17/45
MEGA-GRIP			
3/16" (4.8mm)	aluminum	360	17/31 MG
3/16" (4.8mm)	steel or stainless	250	17/31 MG
1/4" (6.4mm)	aluminum	250	17/41 MG
1/4" (6.4mm)	steel or stainless	80	17/41 MG
BULB-TITE			
1/4" (6.3mm)	aluminum	350	17/42 BT
1/4" (6.3mm)	steel	180	17/42 BT
1/4" (6.3mm)	stainless/manel	230	17/42 BT
9/32" (7.7mm)	aluminum	280	17/48 BT

Work Capacity: *3/16" and 1/4", and 9/32"BT*
Weight: *4.8 lbs. (2.2 kg)*
Working Stroke: *.79" (20mm)*
Traction Power: *2,900 lbs. (13,000 N)*
Power Pack: *12 Volt, rechargeable NiCad*
Battery Charger: *110V/60Hz, 60 minute charge time*



12 Volt Cordless Riveting

FireBird

Rivet Nut Thread Size	Rivet Nut Material	Nuts Per Charge	Part Number Mandrel		Part Number Nosepiece	
6-32 (M3)	alum.	600	(6-32)	7262663	(6-32)	7262698
	steel	550	(M3)	7262019	(M3)	7262086
8-32 (M4)	alum.	520	(8-32)	7262574	(8-32)	7262620
	steel	480	(M4)	7262027	(M4)	7262094
10-32 (M5)	alum.	480	(10-32)	7262582	(10-32)	7262639
	steel	400	(M5)	7262035	(M5)	7262108
1/4-20 (M6)	alum.	400	(1/4-20)	7262590	(1/4-20)	7262647
	steel	300	(M6)	7262043	(M6)	7262116
5/16-18 (M8)	alum.	340	(5/16-18)	7262604	(5/16-18)	7262124
	steel	180	(M8)	7262051	(M8)	7262124
3/8-16 (M10)	alum.	300	(3/8-16)	7262671	(3/8-16)	7262655
	steel	*	(M10)	7262078	(M10)	7262132

Work Capacity: *6-32 to 5/16-18 Steel and Aluminum blind rivet nuts (3/8-16 Aluminum only). *The FireBird tool should not be used with rivet nuts requiring a setting force greater than 2,800 lbs.*
Weight: *4.8 lbs. (2.2 kg)*
Working Stroke: *adjustable up to .216" (5.5mm)*
Traction Power: *3,200 lbs. (14,500 N)*
Power Pack: *12 Volt, rechargeable NiCad*
Battery Charger: *110V/60Hz, 60 minute charge time*

Fastener Systems, Inc.
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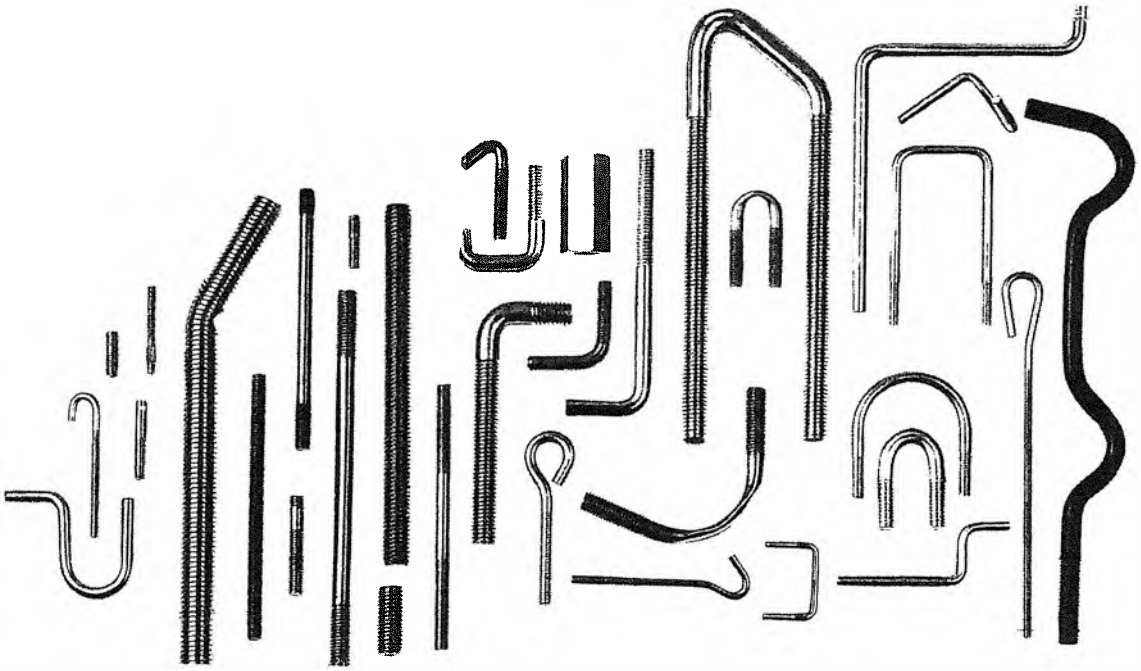
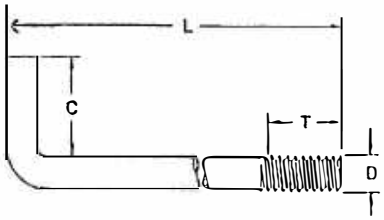
THREADED RODS & PARTS



Coupling Nuts | Rods & Studs | Bent Bolts | U-Bolts | Specials

STEEL ANCHOR BOLTS



D	C	T
3/8-16 All Sizes	1½"	1½"
1/2-13 All Sizes	2"	1½"
5/8-11 X 6"-10"	2"	3"
5/8-11 X 12"+	2"	4"
3/4-10 All Sizes	3"	4"
1-8 All Sizes	3"	5"

SIZES

3/8(16) x 6"	1/2(13) x 6"	5/8(11) x 6"	3/4(10) x 8"	1(8) x 12"
3/8(16) x 8"	1/2(13) x 8"	5/8(11) x 8"	3/4(10) x 10"	1(8) x 14"
3/8(16) x 10"	1/2(13) x 10"	5/8(11) x 10"	3/4(10) x 12"	1(8) x 15"
3/8(16) x 12"	1/2(13) x 12"	5/8(11) x 12"	3/4(10) x 14"	1(8) x 16"
	1/2(13) x 14"	5/8(11) x 14"	3/4(10) x 15"	1(8) x 18"
	1/2(13) x 16"	5/8(11) x 15"	3/4(10) x 16"	1(8) x 21"
	1/2(13) x 18"	5/8(11) x 16"	3/4(10) x 18"	1(8) x 24
	1/2(13) x 20"	5/8(11) x 18"	3/4(10) x 20"	1(8) x 30"
			3/4(10) x 24"	1(8) x 36"
			3/4(10) x 30	

Over 3 million painted parts in stock ready for same day shipping

Fastener Systems, Inc.
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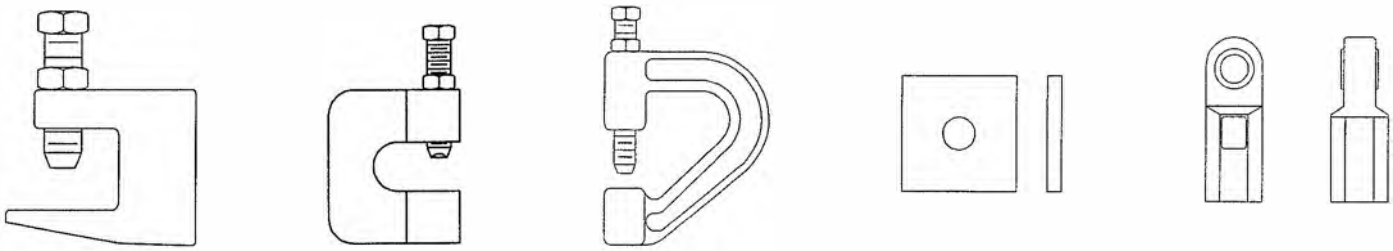
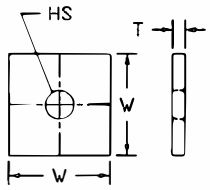
HANGERS



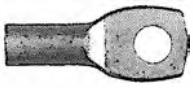
DOCK WASHER / PLATE WASHER



Square Steel Plate

SIZE RANGE:
7/16" thru 1-5/16" hole size (HS)
1/8" thru 1/2" thickness (T)
2" thru 8" width (W)
MATERIAL: Carbon steel
ALTERNATE MATERIAL OR FINISH: EG, HDG
SERVICE: Square steel washer plate used on top of back to back channel or angle for hanger rod or U-bolt attachment.
ORDERING: Specify HS, T,W, model number and name.
NOTE: Any dimensions HS, W and T may be ordered at P.O.A. Standard sizes 2" thru 8" square (1" increments).

EYE COUPLINGS



ITEM CODE	SIZE	BOX/CTN QUANTITY
EC14	1/4"	100/1000
EC38	3/8"	100/1000

THREADED ROD AVAILABLE IN STAINLESS STEEL

CONTINUOUS THREADED ROD

MATERIAL: Carbon steel, threaded complete length.

FINISH: Black or electro-galvanized.

SERVICE: Continuous threaded rod can be cut to required length. Sizes below stocked in 6', 10', and 12' lengths. Other diameters from 6/32 to 2", other materials, SAE National Fine thread, and other lengths can be furnished to order.

ROD SIZE	WGT./C APPROX.	MAX. REC. LOAD, LB.
1/4	12	240
5/16	20	300
3/8	30	610
1/2	54	1130
5/8	85	1810
3/4	120	2710
7/8	170	3770
1	225	4960
1-1/8	280	6230
1-1/4	350	8000
1-3/8	450	9000
1-1/2	500	11630

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

Product Information

HangerMate®

Threaded Rod Anchoring System

APPLICATIONS: Purlins, Steel and Wood (BRUTE™ Series Sidemount Anchors)

Purlin

UL c UL LISTED PIPE HANGER

4" Pipe

Elco Cat. No. ZE800
For Side Attachment To
16 Gauge - 14 Gauge Steel
Tapped To Accept
3/8-16 Threads
Supplied With 5/16-18 Hex Nuts

Steel

Elco Cat. No. ZE815
For Side Attachment To
Steel Up To 1/4"
Tapped To Accept
3/8-16 Threads

Steel

UL c UL LISTED PIPE HANGER

4" Pipe

Elco Cat. No. ZE819
For Side Attachment To
Steel Up To 1/4"
Tapped To Accept
3/8-16 Threads
Supplied With 5/16-24 Hex Nuts

Wood

Elco Cat. No. ZE830
For Side Attachment To
Wood Joists Or Beams
Tapped To Accept
3/8-16 Threads

Wood

UL c UL LISTED PIPE HANGER

3" Pipe

Elco Cat. No. ZE845
For Side Attachment To
Wood Joists Or Beams
Tapped To Accept
3/8-16 Threads

APPLICATIONS: Steel, Light-Gauge Steel and Purlins

Steel/Metal

Elco Cat. No. ZE405
For Attachment To
Steel Up To 1/4"
Tapped To Accept 1/4-20 Threads

Steel/Metal

UL c UL LISTED PIPE HANGER

4" Pipe

FM APPROVED

Elco Cat. No. ZE605
For Attachment To
Steel Up To 1/4"
Tapped To Accept 3/8-16 Threads

Steel/Metal

UL c UL LISTED PIPE HANGER

4" Pipe

FM APPROVED

Elco Cat. No. ZE609
For Attachment To
Steel Up To 1/4"
Tapped To Accept 3/8-16 Threads
5/16-24 Hex Nuts Required
For Light-Gauge Applications

Purlins/ Light-Gauge Steel

UL c UL LISTED PIPE HANGER

4" Pipe

Elco Cat. No. ZE655
For Attachment To
The Bottom Of Purlins
Tapped To Accept 3/8-16 Threads
Supplied With 5/16-18 Hex Nuts

APPLICATIONS: Concrete/Masonry and Wood

Concrete/Masonry and Wood

Elco Cat. No. ZE455
For Attachment To
Concrete/Masonry And Wood
Tapped To Accept
1/4-20 Threads

Concrete/Masonry and Wood

FM* APPROVED

4" Pipe

Elco Cat. No. ZE560
For Attachment To
Concrete/Masonry And Wood
Tapped To Accept 3/8-16 Threads
*FM Approved in concrete applications only

Wood Only

FM APPROVED

4" Pipe

Elco Cat. No. ZE710
For Attachment To Wood Joists And Beams
Tapped To Accept 3/8-16 Threads
Approved For 3/4"-4" Diameter Pipe

Product Information
HangerMate® *Threaded Rod Anchoring System*

STAFDA ASSOCIATE

FSI STOCKS THREADED ROD
IN STAINLESS STEEL AND ZINC PLATED

FSI specializes in solving problems

Fastener Systems, Inc.
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Bolmar Industrial Center
West Chester, PA 19382
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Installation Components

Elco Cat. No. ZE240
Drill Bit Adaptor Kit

Elco Cat No. ZE200
Brute™ Gold-Colored Recessed Drive Socket
(use for metal and wood side-mount applications)

Elco Cat. No. ZE215
Recessed Drive Socket
(use for vertical-mount metal and wood applications)

Elco Cat. No. ZE220
Recessed Drive Sleeve
(use for concrete/masonry applications)

Elco Cat. No. ZE360
Tanged Drill Bit
(use with ZE240 Adaptor Kit)

Elco Cat. No. ZE380
SDS Hex Shank Drill Bit

Elco Cat. No. ZE230
Carbide Countersink Tool
(use with ZE560 in FM-approved concrete/masonry applications)

Elco Cat. No. ZE235
SDS Drive Countersinking Socket
(use with ZE560)

Elco Cat. No. ZE245
Drive Sleeve
(use with ZE455 and ZE280)

Elco Cat. No. ZE280
3/8" Hex Driver
(use with ZE405 and ZE455)

The HangerMate® product information presented here was current at time of printing. However, as Elco strives to offer the highest-performing threaded rod anchoring products, we suggest that users obtain the most current HangerMate® product information prior to purchase or installation.

Complete and up-to-date HangerMate® product information, including new products, product performance testing results and code body approvals, is available for each HangerMate® anchor by contacting Elco Textron (800.435.7213 or gmelvin@elco.textron.com) or by visiting your HangerMate® distributor.

Product Performance and Technical Data

Listings and Approvals

Catalog #	Listings/Approvals	Description	Rod Size	Installation
HangerMate Vertical-Mount Anchors				
ZE405	N/A	Self-Drilling Anchor for Steel 16 gage - 1/4"	1/4-20 Rod	Use ZE260 Drive Socket/Steel
ZE455	N/A	Self-Tapping Anchor for Wood and Concrete	1/4-20 Rod	Use ZE280/Wood Applications Use ZE240, (ZE360 or ZE380 bit), ZE245 & ZE280/Concrete
ZE560	Meets NFPA 13 2-6.1/Wood FM/For Concrete/Countersunk 4" Pipe	Self-Tapping Anchor for Wood and Concrete	3/8-16 Rod	Use ZE215/Wood Use ZE240, ZE360 or ZE380 & ZE220 Drive Sleeve/Concrete FM/Approved/Use ZE380 & ZE230, and ZE235 Drive Socket
ZE605	UL/cUL/ULC/FM 4" Pipe	Self-Drilling Anchor for Steel 16 gage - 1/4"	3/8-16 Rod	Use ZE215 Drive Socket/Steel
ZE609	UL/cUL/FM 4" Pipe	Self-Drilling Anchor for Steel 16 gage - 1/4"	3/8-16 Rod	Use ZE215 Drive Socket/Steel Use ZE609 for Light Gage Applications
ZE655	UL/cUL 4" Pipe	Self-Drilling Anchor for Steel Purlins/16-14 gage	3/8-16 Rod	Use ZE215 Drive Socket/Steel Purlins
ZE710	FM 4" Pipe	Self-Tapping Anchor for Wood	3/8-16 Rod	Use ZE215 Drive Socket/Wood
HangerMate "Brute" Side-Mount Anchors				
ZE800	UL/cUL 4" Pipe	Self-Drilling Anchor for Steel Purlins/16-14 gage	3/8-16 Rod	Use ZE200 Gold-Colored Drive Socket/Steel Purlins
ZE815	N/A	Self-Drilling Anchor for Steel 16 gage -1/4"	3/8-16 Rod	Use ZE200 Gold-Colored Drive Socket/Steel
ZE819	UL/cUL 4" Pipe	Self-Drilling Anchor for Steel 16 gage - 1/4"	3/8-16 Rod	Use ZE200 Gold-Colored Drive Socket/Steel
ZE830	Meets NFPA 13 2-6.1/Wood	Self-Tapping Anchor for Wood	3/8-16 Rod	Use ZE200 Gold-Colored Drive Socket/Wood
ZE845	UL/cUL 3" Pipe	Self-Tapping Anchor for Wood	3/8-16 Rod	Use ZE200 Gold-Colored Drive Socket/Wood

Ultimate Average Pullout Values
(values expressed in lbs.)

Catalog #	Concrete	Wood	Steel								
			16 Ga.	16 Ga. w/Nut	14 Ga.	14 Ga. w/Nut	12 Ga.	12 Ga. w/Nut	1/8"	3/16"	1/4"
ZE405	N/A	N/A	516	N/A	649	N/A	1433	N/A	2783	3948	4304**
ZE455	2181	1694	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ZE560	2181	1694	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ZE605	N/A	N/A	735	N/A	1044	4065	1655	N/A	1889	3255	4545
ZE609*	N/A	N/A	735	2801	1044	4065	1655	4925	1889	3255	4545
ZE655*	N/A	N/A	735	2801	1044	4065	N/A	N/A	N/A	N/A	N/A
ZE710	N/A	2353	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ZE800	N/A	N/A	735	2801	1044	4065	N/A	N/A	N/A	N/A	N/A
ZE815	N/A	N/A	735	N/A	1044	N/A	1655	N/A	2783	3255	4545
ZE819*	N/A	N/A	735	2801	1044	4065	1655	4925	2783	3255	4545
ZE830	N/A	1889	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ZE845	N/A	1889	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Anchors are packed with retainer nuts. **Fastener failed during testing.
These values are for the HangerMate anchors installed in the materials shown; an appropriate safety factor should be applied to these values. For pullout values in steel thicknesses not shown, contact Elco Textron Inc. The tensile strength of the threaded rod may be less than these values and must therefore be determined to be adequate by the end user.

Important Product & Warranty Information!

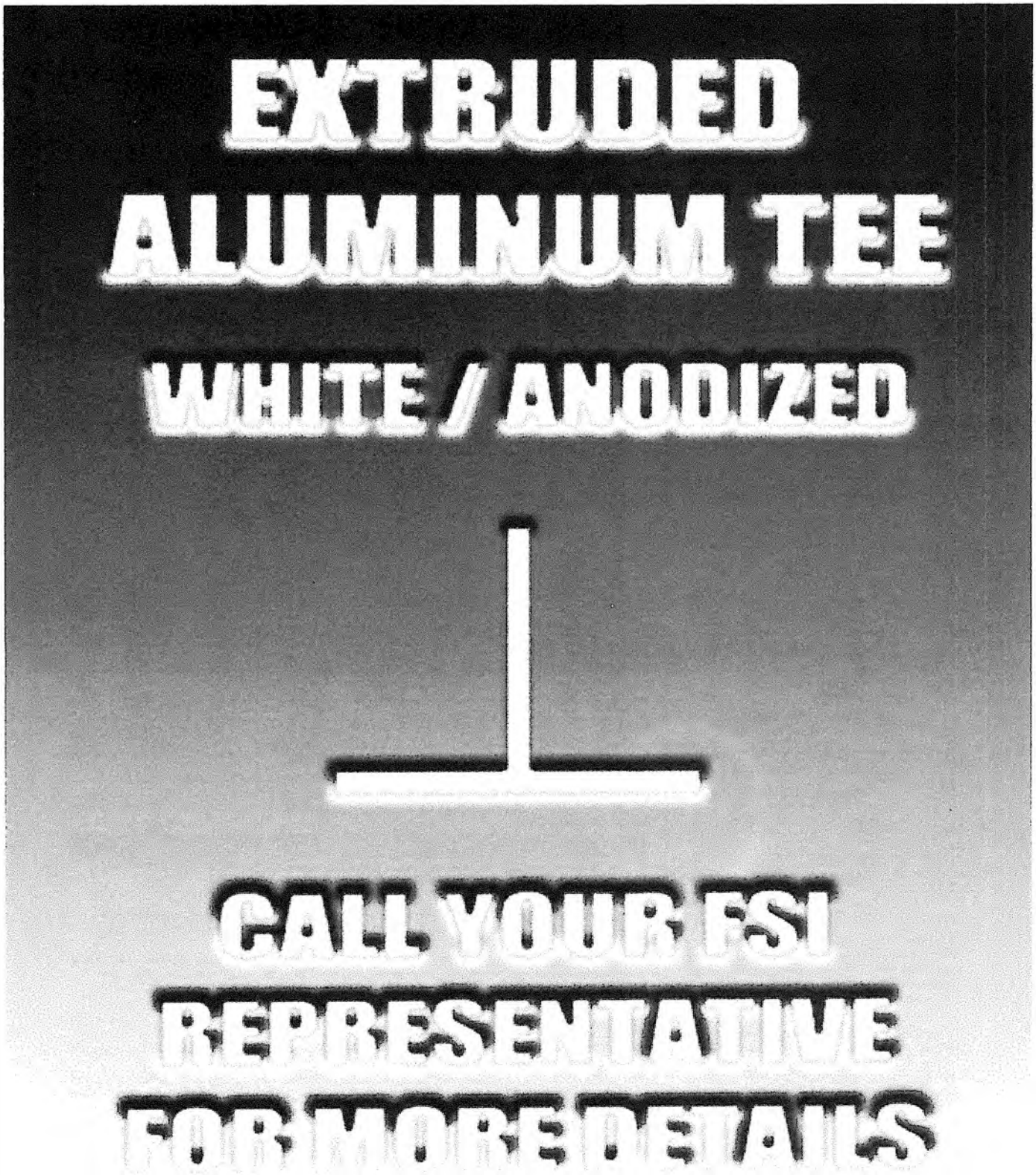
- As with all cutting tools and fasteners, normal safety precautions should be observed to avoid electrical installations, other utilities and reinforcement bars; careful use will provide the utmost safety and reliability.
- The wearing of safety glasses by users and persons in the vicinity is required by Federal Law.
- Shoulders of installed HangerMate anchors must be flush to the metal, masonry or wood substrate materials. HangerMate anchors should not be subjected to vibratory or shock loads resulting from such applications as anchorings for reciprocating machinery, crane rails or hoists.
- Care should be taken to not damage HangerMate anchors or the substrate into which they are installed when loading pipe, installing cable tray, or otherwise suspending components from HangerMate anchors. Failure to do so may result in significant loss of holding power.
- Complete HangerMate product information and technical application assistance is available from Elco Textron by calling 800.435.7213.

This literature was prepared as an introductory summary of the HangerMate threaded rod anchoring system from Elco Textron Inc. and is not, therefore, intended to describe all hazards, limitations, warnings, precautions, etc. pertaining to the use of the product. The information and data presented herein are believed to be accurate and reliable, however, due to the wide variety of possible intervening factors, the suitability of the product for the use intended is the sole responsibility of the user. Specifications and other information contained herein supersede all previously published material and are subject to change without notice.

All HangerMate anchors are warranted to be manufactured free from defects in material and workmanship. Under this warranty, Elco Textron will provide, at no charge, replacement product for any HangerMate anchors proven to be defective when installed in accordance with our published recommendations and in applications considered by us as suitable for this product. This warranty is in lieu of any and all warranties, expressed or implied, and in no case will Elco Textron Inc. be liable for incidental, liquidated or consequential damages.

HangerMate anchors are made in the USA and conform to the *Buy America Act*

HangerMate and Brute are trademarks of Elco Textron Inc.



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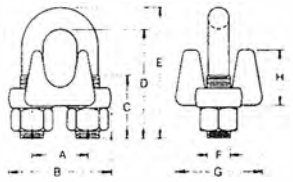
WIRE ROPE CLIPS

FORGED WIRE ROPE CLIPS

Forged • Carbon Steel • Hot Galvanized



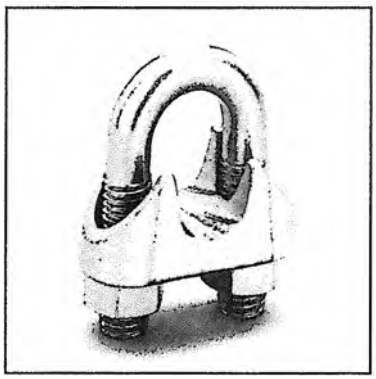
- All clips are supplied with cold-forged double chamfered, heavy hex, UNC-2B nuts.*
- Meet Federal Specification FF-C-450c, Type I, Class 1.
- Base, U-bolt and nuts are hot-dip galvanized in accordance with ASTM Specification A-153.*
- Forged wire rope clips are not designed for load carrying purposes therefore, working load limits have not been established.

Stock No.	Size for Rope Dia.	Dimensions A	B	C	D	E	F	G	H	Min. No. Clips for Max. Strength	Min. Spacing Between Clips	Approx. Wt. Per 100 Pcs.
18500*	1/8	1/2	1	7/16	3/4	15/16	7/32	27/32	7/16	2	3/4	6.0
18505	3/16	19/32	1 3/32	5/8	31/32	1 3/16	1/4	15/16	1/2	2	1 1/8	9.0
18510	1/4	11/16	1 7/16	7/8	1 7/32	1 1/2	5/16	1 1/8	11/16	2	1 1/2	18.0
18515	5/16	7/8	1 11/16	1	1 5/8	1 31/32	3/8	1 5/16	3/4	2	1 7/8	30.0
18520	3/8	1	1 15/16	7/8	1 5/8	2	7/16	1 1/2	7/8	2	2 1/4	44.5
18530	1/2	1 3/16	2 1/4	1 1/16	1 29/32	2 5/16	1/2	1 13/16	1 3/32	3	3	71.6
18540	5/8	1 1/4	2 3/8	1 7/16	2 3/8	2 7/8	9/16	2 1/16	1 1/4	3	3 3/4	100.0
18545	3/4	1 1/2	2 3/4	1 1/2	2 13/16	3 3/8	5/8	2 5/16	1 15/32	4	4 1/2	140.0
18550	7/8	1 3/4	3 3/16	1 7/8	3 1/8	3 7/8	3/4	2 7/16	1 1/2	4	5 1/4	200.0
18555	1	1 7/8	3 1/2	2 1/4	3 1/2	4 1/4	3/4	2 11/16	1 3/4	5	6	245.0
18560	1 1/8	2 1/16	3 11/16	2 3/16	3 7/8	4 5/8	3/4	3	2	6	6 3/4	285.0
18565	1 1/4	2 3/16	4 1/16	2 3/8	4 1/4	5 1/8	7/8	3 1/4	2 5/32	6	7 1/2	415.0
18570	1 1/2	2 15/32	4 1/2	2 7/16	5	5 7/8	7/8	3 3/8	2 13/32	7	9	543.0

*1/8 only is supplied with regular hex nut and zinc plated U-bolt.

MALLEABLE WIRE ROPE CLIPS

Carbon Steel • Zinc Plated



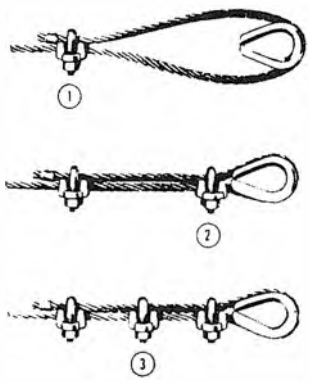
- All regular hex nuts.
- Clips meets Federal Specification FF-C-450, Type I, Class 2
- Bulk pack

Stock No.	Rope Size	Inside Length of U-Bolt	Min. No. of Clips for Max. Strength	Approx. Wt. Per 100 Pcs.
20900	**1/16***	23/32	2-4	3.0
20905	**1/8***	23/32	2-4	4.5
20910	**3/16**	15/16	2-4	6.5
20915	**1/4**	1 1/32	2-4	12.0
20920	**5/16**	1 5/16	2-4	12.0
20925	**3/8**	1 1/2	2-4	19.0
20930	**7/16**	1 7/8	3-4	21.8
20935	**1/2**	1 7/8	3-4	37.0
20940	**9/16**	2 1/4	3-4	46.0
20945	**5/8**	2 3/8	3-4	54.0
20950	**3/4**	2 3/4	4-5	80.0
20955	**7/8**	3 1/8	4-5	116.0
20960	**1**	3 1/2	4-5	137.0
20965	**1-1/8**	3 7/8	6-8	267.0
20970	**1-1/4**	4 1/4	6-8	328.0

*NOTE: Not covered by FF-C-450 Type I, Class 2

USE CLIPS PROPERLY FOR MAXIMUM EFFICIENCY

1. U-Bolt should bear on dead end of rope.
2. Use recommended number of clips, depending on safety requirement.
3. Spacing between clips should be 6 times the rope diameter.
4. Nuts should be re-tightened after initial load.



How To Attach Drop Forged Wire Rope Clips

The right way to attach wire rope clips is illustrated at left. The base or saddle should bear on the live end of the rope — U-bolt on the short or dead end. *Staggering* or *reversing* the clips does NOT give additional holding power.

1. ATTACH *FIRST* CLIP one base width from dead end of rope. Tighten nuts securely.
2. ATTACH *SECOND* CLIP as close to loop as possible. Tighten nuts firmly but not completely tight.
3. ATTACH *ALL OTHER* CLIPS (if required) equally spaced between the first two. Tighten nuts firmly.

CAUTION

Apply the initial load to the rope. Alternately and uniformly retighten *all* nuts securely, to compensate for any reduction of rope diameter. Inspect and periodically retighten. The number of clips shown should be used for 6x19 or 6x37 class, fiber core or IWRC, IPS or XIPS, right regular or long lay Wire Rope, and 8x19 or 8x7 class, fiber core, IPS or XIPS, Wire Rope.

For 6x19 Seale construction or similar large outer wire constructions, add one extra clip for sizes 1" and larger. Where service conditions are unusually severe, or for other classes of rope not mentioned above, add one additional clip.

Drop Forged Wire Rope Clips, when properly applied to new rope will develop high efficiencies (approximately 80%) based upon the catalog breaking strength of the wire rope. Failure to follow the above instructions will cause a reduction in efficiency.

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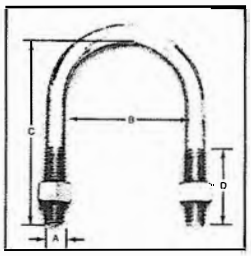
U - BOLTS - S - HOOKS - BEVEL WASHERS

Dimensions in inches • Weights in pounds
Please include stock number and size when ordering

U-BOLTS

Unassembled
With Nuts
Carbon Steel • Zinc Plated



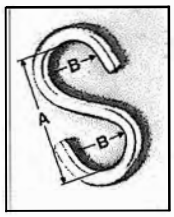
- All sizes manufactured with rolled threads.
- Cut thread available upon request.
- U-bolts available up to 1¾" diameter rod.
- Square and V-bend bolts available upon request.
- Send drawing for special sizes.
- Bulk packaging.
- Special packaging available upon request.
- **Available in 304 Stainless Steel**

Stock No.	Thread Dia. A	Width Bet. Legs B	Inside Length C	Thread Length D	Pipe Size	Wt. Per 100 Pcs.
34010	**1/4**–20	3/4	1 1/4	3/4	3/8	4.8
34020	**1/4**–20	3/4	1 3/4	3/4	3/8	5.8
34030	**1/4**–20	3/4	2 1/4	1 1/2	3/8	6.8
34070	**1/4**–20	1	1 3/4	3/4	1/2	6.0
34080	**1/4**–20	1 1/8	2	3/4	3/4	6.5
34090	**1/4**–20	1 3/8	2 1/4	3/4	1	7.4
34100	**1/4**–20	1 3/4	2 3/4	1	1 1/4	8.5
34110	**1/4**–20	2	3 1/4	1 1/4	1 1/2	9.5
34120	**1/4**–20	1 1/2	3 1/2	2	1	9.8
34200	**5/16**–18	1 3/8	2 3/16	1	1	11.6
34210	**5/16**–18	1 3/8	3 11/16	1 1/2	1	16.5
34220	**5/16**–18	1 3/4	2 11/16	1	1 1/4	13.6
34240	**5/16**–18	2	2 11/16	1	1 1/2	13.6
34250	**5/16**–18	2	3 11/16	1 1/2	1 1/2	17.2
34270	**5/16**–18	2 1/2	3 3/16	1 1/2	2	16.0
34292	**3/8**–16	1	2 1/4	1 1/4	1/2	17.7
34301	**3/8**–16	1 3/8	3 1/8	1 1/2	1	21.5
34303	**3/8**–16	1 1/2	2 1/2	1 1/4	1	19.2
34304	**3/8**–16	2	3 1/8	1 1/4	1 1/2	23.0
34310	**3/8**–16	2 1/2	3 5/8	1 1/2	2	24.9
34320	**3/8**–16	3	4 1/8	1 1/2	2 1/2	28.0
34330	**3/8**–16	3 5/8	4 5/8	1 1/2	3	32.3
34400	**1/2**–13	3	4 1/2	1 1/2	2 1/2	58.0
34410	**1/2**–13	3 1/2	5	1 1/2	3	66.5
34420	**1/2**–13	4	5 1/2	1 1/2	3 1/2	68.0
34430	**1/2**–13	4 5/8	6	1 1/2	4	74.0
34440	**1/2**–13	5 5/8	7	2	5	86.5
34450	**1/2**–13	6 3/4	8	2	6	101.5
34455	**1/2**–13	8 3/4	10 3/8	2	8	125.0
34474	**5/8**–11	8 3/4	11 1/2	4	8	253.0

Stock No.	Wt. Per 100 Pcs.
With Strap Washers and Nuts Unassembled	
35407	9.5
35408	10.1
35409	10.8
35410	13.3
35411	14.4
35412	14.6
35420	16.4
35421	21.2
35422	18.3
35424	19.5
35425	23.2
35427	21.8
—	—
35429	31.1
—	—
35430	31.8
35431	38.0
35432	41.2
35433	46.3

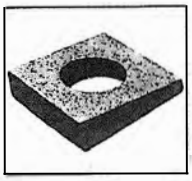
S-HOOKS

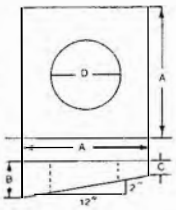
Zinc Plated



Stock No.	Size	Wire Dia.	Inside Length A	I.D. Eye B	Approx. Wt. Per 100 Pcs.
41705	**5/32**	.134	1	3/8	1.2
41710	**3/16**	.192	1 3/8	3/8	3.0
41715	**1/4**	.250	1 3/4	21/32	6.7
41720	**5/16**	.313	1 7/8	3/4	11.0
41725	**3/8**	.375	2 23/84	1 25/32	20.4

MALLEABLE BEVEL WASHERS





Stock No.	Bolt Dia.	A	B	C	D	Approx. Wt. Per 100 Pcs.
70005	**1/4**	11/16	7/32	5/64	5/16	1.6
70010	**5/16**	11/16	5/16	9/64	3/8	6.0
70015	**3/8**	1 1/4	11/32	5/32	7/16	9.5
70020	**1/2**	1 1/4	11/32	5/32	9/16	10.2
70025	**5/8**	1 1/2	13/32	5/32	11/16	15.4
70030	**3/4**	1 1/2	15/32	7/32	13/16	16.4
70035	**7/8**	2	9/16	7/32	15/16	34.2
70040	**1**	2	9/16	7/32	1 3/32	32.5
70045	**1-1/8**	2 1/4	5/8	9/32	1 3/16	50.0
70050	**1-1/4**	2 1/2	23/32	5/16	1 5/16	75.0

FSI STOCKS ALL THREAD IN ZINC AND STAINLESS STEEL

Same day color match - In house painting

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
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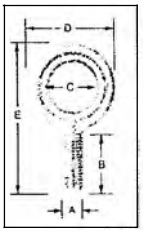
STAINLESS STEEL EYE BOLTS

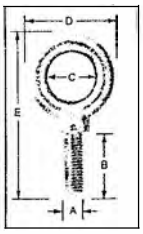
STAINLESS STEEL EYE BOLTS

304 Stainless Steel

Plain Pattern



Shoulder Pattern

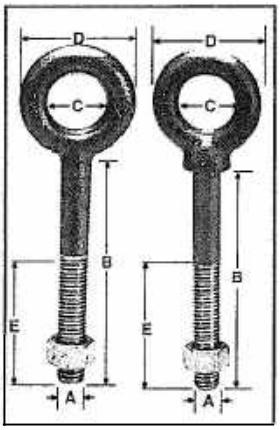


Plain Pattern

Stock No.	Thread Size UNC-2A A	Shank Length B	I.D. Eye C	O.D. Eye D	Overall Length E	Blanks ★	Approx. Wt. Per 100 Pcs.	Rated Capacity*
SS13611	**1/4**-20	1	3/4	1 3/16	2 3/8	SSR13611	5.0	460
SS13621	**5/16**-18	1 1/8	7/8	1 7/16	2 13/16	SSR13621	9.6	780
SS13631	**3/8**-16	1 1/4	1	1 11/16	3	SSR13631	14.0	1,160
SS13641	**1/2**-13	1 1/2	1 3/16	2 1/8	3 21/32	SSR13641	29.5	2,150
SS13661	**5/8**-11	1 3/4	1 3/8	2 9/16	4 3/8	SSR13661	58.0	3,440
SS13672	**3/4**-10	2	1 1/2	2 13/16	4 7/8	SSR13672	88.5	5,140
SS13702	**1**-8	2 1/2	1 13/16	3 9/16	6 1/8	SSR13702	226.0	9,370
Shoulder Pattern						**Blanks**		
SS14611	**1/4**-20	1	3/4	1 3/16	2 3/8	SSR14611	5.0	460
SS14621	**5/16**-18	1 1/8	7/8	1 7/16	2 13/16	SSR14621	9.6	780
SS14631	**3/8**-16	1 1/4	1	11/16	3 1/4	SSR14631	16.0	1,160
SS14641	**1/2**-13	1 1/2	1 3/16	2 1/8	3 31/32	SSR14641	34.8	2,150
SS14661	**5/8**-11	1 3/4	1 3/8	2 9/16	4 3/4	SSR14661	67.0	3,440
SS14672	**3/4**-10	2	1 1/2	2 13/16	5 1/4	SSR14672	100.0	5,140
SS14702	**1**-8	2 1/2	1 3/4	3 9/16	6 1/8	SSR14702	260.0	9,370

STAINLESS STEEL NUT EYE BOLTS

Forged • 304 Stainless Steel
Plain and Shoulder Pattern



WARNING

RATED CAPACITY IS DRASTICALLY REDUCED WHEN LOADING AT ANY ANGLE.

LOADING MUST NEVER BE MADE AT AN ANGLE GREATER THAN 45° FROM BOLT CENTER-LINE. AT AN ANGLE OF 45°, RATED CAPACITY IS REDUCED TO 1/4 OF THE TABULATED VALUE.

Plain Pattern

Stock No.	Thread Dia. A	Shank Length B	I.D. of Eye C	O.D. of Eye D	Thread Length E	Blanks ★	Approx. Wt. Per 100 Pcs.	Rated Capacity*
SS12314	**1/4**	4	1/2	1	1	SSR12314	8	460
—	**1/4**	6	1/2	1	1	SSR12316	9	—
SS12323	**5/16**	4	5/8	1 1/4	1 1/4	SSR12323	15	780
—	**3/8**	6	1	1 1/2	1 1/2	SSR12336	29	—
SS12341	**1/2**	4 1/2	1	1 5/16	2	SSR12341	41	2,150
SS12343	**1/2**	6	1	1 5/16	2	SSR12343	42	2,150
—	**1/2**	12	1	1 5/16	2	SSR12348	55	—
SPECIAL	**1/2**	AL	1	1 5/16	2	SPECIAL	—	2,150
SS12350	**5/8**	4	1 3/8	2 1/2	2 1/4	SSR12350	82	3,440
SS12352	**5/8**	6	1 3/8	2 1/2	2 1/4	SSR12352	98	3,440
—	**5/8**	12	1 3/8	2 1/2	2 1/4	SSR12357	125	—
SPECIAL	**5/8**	AL	1 3/8	2 1/2	2 1/4	SPECIAL	—	3,440
SS12362	**3/4**	6	1 1/2	2 13/16	2 1/2	SSR12362	138	5,140
—	**3/4**	12	1 1/2	2 13/16	2 1/2	SSR12367	175	—
SPECIAL	**3/4**	AL	1 1/2	2 13/16	2 1/2	SPECIAL	—	5,140
SS12371	**7/8**	6	1 11/16	3 1/4	2 1/2	SSR12371	214	7,130
—	**7/8**	12	1 11/16	3 1/4	2 1/2	SSR12375	300	—
SPECIAL	**7/8**	AL	1 11/16	3 1/4	2 1/2	SPECIAL	—	7,130
SS12380	**1**	6	1 13/16	3 9/16	3	SSR12380	280	9,370
—	**1**	12	1 13/16	3 9/16	3	SSR12385	350	—
SPECIAL	**1**	AL	1 13/16	3 9/16	3	SPECIAL	—	9,370
Shoulder Pattern						**Blanks**		
SS17734	**3/8**	4 1/2	3/4	1 1/2	1 1/2	SSR17334	25	1,160
—	**3/8**	6	3/4	1 1/2	1 1/2	SSR17736	29	—
—	**3/8**	10	3/4	1 1/2	1 1/2	SSR17739	34	—
SPECIAL	**3/8**	AL	3/4	1 1/2	1 1/2	SPECIAL	—	1,160
SS17743	**1/2**	6	1	1 15/16	2	SSR17743	42	2,150
—	**1/2**	12	1	1 15/16	2	SSR17745	55	—
SPECIAL	**1/2**	AL	1	1 15/16	2	SPECIAL	—	2,150
SS17752	**5/8**	6	1 3/8	2 1/2	2 1/4	SSR17752	98	3,440
—	**5/8**	12	1 3/8	2 1/2	2 1/4	SSR17754	125	—
SPECIAL	**5/8**	AL	1 3/8	2 1/2	2 1/4	SPECIAL	—	3,440
SS17762	**3/4**	6	1 1/2	2 13/16	2 1/2	SSR17762	138	5,140
—	**3/4**	12	1 1/2	2 13/16	2 1/2	SSR17767	175	—
SPECIAL	**3/4**	AL	1 1/2	2 13/16	2 1/2	SPECIAL	—	5,140
SS17690	**1**	6	1 13/16	3 9/16	3	SSR17690	280	9,370
—	**1**	12	1 13/16	3 9/16	3	SSR17693	350	—
SPECIAL	**1**	AL	1 13/16	3 9/16	3	SPECIAL	—	9,370

* Rated capacity—Full sized shank and eye—unaltered.
** Note—5/8" to 1" diameter shank lengths can be manufactured longer than 18" on request.
★ Blanks have no rated capacity.

All stainless electropolished.

Fastener Systems, Inc.
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Bolmar Industrial Center
West Chester, PA 19382
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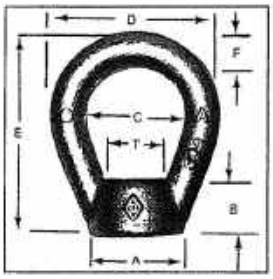
STAINLESS STEEL EYE NUTS - EYE BOLTS - U BOLTS - ROPE CLIPS

STAINLESS STEEL EYE NUTS

Forged • 304 Stainless Steel



304 Stainless Steel

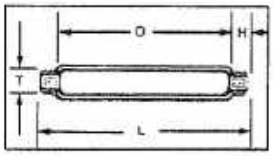
Stock No.	Thread Dia. T	A	B	C	D	E	F	Approx. Wt. Per 100 Pcs.	Rated Capacity
SS16037	**3/8**-16	7/8	5/8	1 1/4	2	2 1/2	3/8	22.0	2,700
SS16050	**1/2**-13	7/8	5/8	1 1/4	2	2 1/2	3/8	19.5	2,700
SS16062	**5/8**-11	1 3/8	3/4	1 1/2	2 1/2	3	1/2	60.0	5,000
SS16075	**3/4**-10	1 3/8	3/4	1 1/2	2 1/2	3	1/2	56.0	5,000
SS16087	**7/8**-9	1 9/16	1 1/16	2 1/4	4	5	7/8	174.1	10,000
SS16100	**1**-8	1 9/16	1 1/16	2 1/4	4	5	7/8	167.2	10,000

316 Stainless Steel

Stock No.	Thread Dia. T	A	B	C	D	E	F	Approx. Wt. Per 100 Pcs.	Rated Capacity
SS16237	**3/8**	7/8	5/8	1 1/4	2	2 1/2	3/8	22.0	2,700
SS16250	**1/2**	7/8	5/8	1 1/4	2	2 1/2	3/8	19.5	2,700
SS16262	**5/8**	1 3/8	3/4	1 1/2	2 1/2	3	1/2	60.0	5,000
SS16275	**3/4**	1 3/8	3/4	1 1/2	2 1/2	3	1/2	56.0	5,000

STAINLESS STEEL TURNBUCKLE BODIES

Forged • 304 Stainless Steel

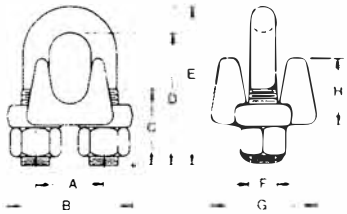


Stock No.	Size in Inches: Thread Dia. T		Take-Up O	Head H	Body Length L	Approx. Wt. Per 100 Pcs.	Rated Capacity
SS10612	3/8	x	6	9/16	7 1/8	33	1,200
SS10616	1/2	x	6	3/4	7 1/2	56	2,200
SS10628	5/8	x	6	7/8	7 3/4	85	3,500
SS10640	3/4	x	6	1 1/16	8 1/8	140	5,200

All stainless electropolished.

STAINLESS STEEL WIRE ROPE CLIPS

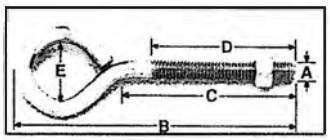
Forged • 304 Stainless Steel



Stock No.	Size for Rope Dia.	Dimensions A	B	C	D	E	F	G	H	Min. No Clips for Max. Strength	Min. Spacing Between Clips	Approx. Wt. Per 100 Pcs.
SS18510	1/4	11/16	1 7/16	7/8	1 7/32	1 1/2	5/16	1 1/8	11/16	2	1 1/2	18.0
SS18520	3/8	1	1 15/16	7/8	1 5/8	2	7/16	1 1/2	7/8	2	2 1/4	44.5
SS18530	1/2	1 3/16	2 1/4	1 1/16	1 29/32	2 5/16	1/2	1 13/16	1 3/32	3	3	71.6
SS18540	5/8	1 1/4	2 3/8	1 7/16	2 3/8	2 7/8	9/16	2 1/16	1 1/4	3	3 3/4	100.0
SS18545	3/4	1 1/2	2 3/4	1 1/2	2 13/16	3 3/8	5/8	2 5/16	1 15/32	4	4 1/2	140.0

STAINLESS STEEL WROUGHT EYE BOLTS

304 Stainless Steel



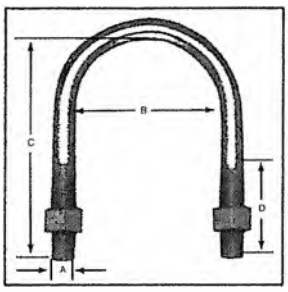
NOT RECOMMENDED FOR LIFTING

Stock No.	Thread Dia. A	Overall Length B	Shank Length C	Thread Length D	I.D. Eye E	Wt. Per 100 Pcs.
SS21400	**1/4**-20	2	1	7/8	9/16	3.6
SS21420	**1/4**-20	2 5/8	1 13/16	1 1/2	3/8	4.0
SS21440	**1/4**-20	3 1/2	2 1/2	1 1/2	9/16	5.2
SS21450	**1/4**-20	4	3	1 1/2	9/16	5.4
SS21500	**5/16**-18	3 1/4	2 3/16	2	1/2	7.8
SS21520	**5/16**-18	4	2 5/8	2	3/4	9.9
SS21610	**3/8**-16	4	2 1/4	2 1/8	1	15.7
SS21630	**3/8**-16	6	4 1/4	2 1/2	1	20.6
SS21640	**3/8**-16	8	6 1/4	2 1/2	1	25.3

• Furnished with stainless steel hex nuts (unassembled) • Available bulk only

STAINLESS STEEL U-BOLTS

304 Stainless Steel



Stock No.	Thread Dia. Inches A	Width Bet. Legs Inches B	Inside Length Inches C	Thread Length Inches D	Pipe Size Inches	Wt. Per 100 Pcs.
SS34010	**1/4**-20	3/4	1 1/4	3/4	3/8	4.8
SS34030	**1/4**-20	3/4	2 1/4	1 1/2	3/8	6.8
SS34070	**1/4**-20	1	1 3/4	3/4	1/2	6.0
SS34080	**1/4**-20	1 1/8	2	3/4	3/4	6.5
SS34090	**1/4**-20	1 3/8	2 1/4	3/4	1	7.4
SS34100	**1/4**-20	1 3/4	2 3/4	1	1 1/4	8.5
SS34110	**1/4**-20	2	3 1/4	1 1/4	1 1/2	9.5
SS34200	**5/16**-18	1 3/8	2 3/16	1	1	11.6
SS34220	**5/16**-18	1 3/4	2 11/16	1	1 1/4	13.6
SS34240	**5/16**-18	2	2 11/16	1	1 1/2	13.6
SS34270	**5/16**-18	2 1/2	3 9/16	1 1/2	2	16.0
SS34292	**3/8**-16	1	2 1/4	1 1/4	1/2	17.7
SS34303	**3/8**-16	1 1/2	2 1/2	1 1/4	1	19.2
SS34304	**3/8**-16	2	3 1/8	1 1/4	1 1/2	23.0
SS34310	**3/8**-16	2 1/2	3 5/8	1 1/2	2	24.9
SS34320	**3/8**-16	3	4 1/8	1 1/2	2 1/2	28.0
SS34330	**3/8**-16	3 5/8	4 5/8	1 1/2	3	32.3

• Furnished with stainless steel hex nuts (unassembled) • All sizes manufactured with rolled threads • Cut thread available upon request • Send drawing for special sizes • Bulk packaging • Special packaging available upon request.

All stainless electropolished.

We put the *fast* in fasteners

Fastener Systems, Inc.
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Bolmar Industrial Center
West Chester, PA 19382
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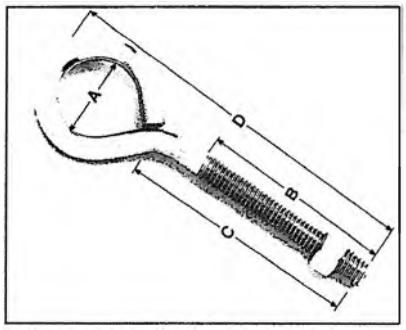
WROUGHT NUT EYE BOLTS

BENT EYES

Carbon Steel • Zinc Plated



NOT RECOMMENDED FOR LIFTING

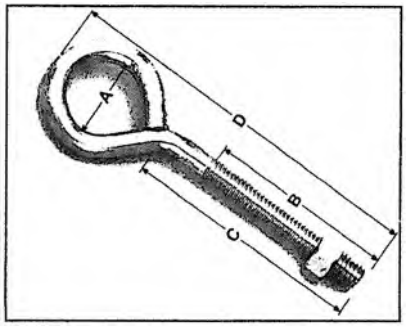
- Furnished with hex nuts (unassembled)
- Available bulk only
- All sizes manufactured with rolled threads
- Special packaging available upon request

Stock No.	Thread Dia.	I.D. Eye A	Thread Length B	Shank Length C	Overall Length D	Approx. Wt. Per 100 Pcs.
21370	**8**–32	1/4	1	1 1/16	1 5/8	1.2
21371	**8**–32	3/8	1	1 1/16	1 3/4	1.4
21380	**10**–24	5/16	1 1/8	1 1/4	1 15/16	1.6
21381	**10**–24	3/8	7/8	1	1 11/16	1.5
21382	**10**–24	3/8	1	2	2 11/16	2.0
21383	**10**–24	3/8	1 1/2	3	3 11/16	2.5
21390	**12**–24	3/8	1 3/8	1 7/16	2 3/16	2.5
21400	**1/4**–20	9/16	7/8	1	2	3.6
21410	**1/4**–20	9/16	1 3/8	1 1/2	2 1/2	4.0
21420	**1/4**–20	3/8	1 1/2	1 13/16	2 5/8	4.0
21430	**1/4**–20	9/16	1 1/2	2	3	4.6
21440	**1/4**–20	9/16	1 1/2	2 1/2	3 1/2	5.2
21450	**1/4**–20	9/16	1 1/2	3	4	5.4
21460	**1/4**–20	9/16	1 1/2	4	5	6.6
21470	**1/4**–20	9/16	1 1/2	5	6	7.0
21500	**5/16**–18	1/2	2	2 3/16	3 1/4	7.8
21510	**5/16**–18	3/4	1 7/8	1 15/16	3 1/4	8.2
21520	**5/16**–18	3/4	2	2 5/8	4	9.9
21530	**5/16**–18	3/4	2 1/2	3 5/8	5	11.6
21540	**5/16**–18	3/4	2 1/2	4 5/8	6	13.4
21600	**3/8**–16	5/8	2 3/8	2 1/2	3 7/8	13.2
21610	**3/8**–16	1	2 1/8	2 1/4	4	15.7
21620	**3/8**–16	1	2 1/2	3 1/4	5	16.8
21630	**3/8**–16	1	2 1/2	4 1/4	6	20.6
21640	**3/8**–16	1	2 1/2	6 1/4	8	25.3
21650	**3/8**–16	1	2 1/2	7 3/8	9 1/2	29.2
21660	**3/8**–16	1	2 1/2	9 7/8	11 1/2	37.0
21670	**3/8**–16	1	2 1/2	11 7/8	13 1/2	41.0
21700	**7/16**–14	1	2 1/2	4	6	27.2
21710	**7/16**–14	1	2 1/2	6	8	35.3
21720	**7/16**–14	1	2 1/2	8	10	41.8
21730	**7/16**–14	1	2 1/2	10	12	48.5
21740	**1/2**–13	1	2 3/4	3	5	34.0
21750	**1/2**–13	1	3	4	6	37.3
21760	**1/2**–13	1	3	5	7	42.3
21770	**1/2**–13	1	3	6	8	46.2
21780	**1/2**–13	1	3	8	10	54.3
21790	**1/2**–13	1	3	10	12	63.5
21800	**5/8**–11	1 1/4	3	3 1/2	6	62.5
21810	**5/8**–11	1 1/4	3	5 1/2	8	74.6
21820	**5/8**–11	1 1/4	3	7 1/2	10	90.5
21830	**5/8**–11	1 1/4	3	9 1/2	12	103.5

D

BENT EYES WELDED CLOSED

Carbon Steel • Zinc Plated



NOT RECOMMENDED FOR LIFTING

24500	**1/4**–20	9/16	7/8	1	2	3.6
24510	**1/4**–20	9/16	1 3/8	1 1/2	2 1/2	4.0
24530	**1/4**–20	9/16	1 1/2	2	3	4.6
24540	**1/4**–20	9/16	1 1/2	3	4	5.4
24550	**1/4**–20	9/16	1 1/2	4	5	6.6
24560	**1/4**–20	9/16	1 1/2	5	6	7.0
24630	**5/16**–18	3/4	1 7/8	1 15/16	3 1/4	8.2
24640	**5/16**–18	3/4	2	2 5/8	4	9.9
24650	**5/16**–18	3/4	2 1/2	3 5/8	5	11.6
24660	**5/16**–18	3/4	2 1/2	4 5/8	6	13.4
24740	**3/8**–16	1	2 1/8	2 1/4	4	15.7
24750	**3/8**–16	1	2 1/2	3 1/4	5	16.8
24760	**3/8**–16	1	2 1/2	4 1/4	6	20.6
24780	**3/8**–16	1	2 1/2	6 1/4	8	25.3

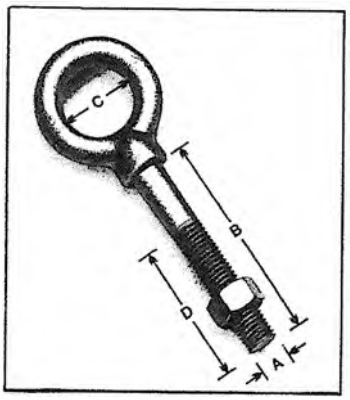
ALL PARTS AVAILABLE IN STAINLESS STEEL

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

LIFTING EYES & TURNBUCKLE BODIES

NUT EYE BOLTS

Forged • Shoulder Pattern
Hot Galvanized • 1030 Carbon Steel★

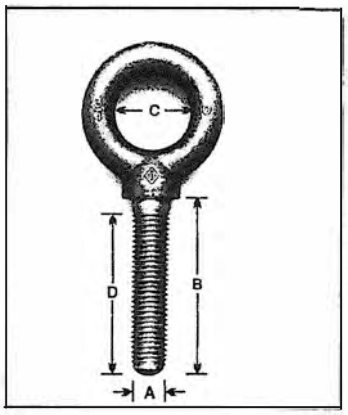


Stock No.	Thread Dia. A	Shank Length B	I.D. Eye C	Min. or Std. Thread Length D	Blanks*	Approx. Wt. Per 100 Pcs.	Rated Capacity
15710	1/4	2	1/2	1	—	7.7	400
15714	1/4	4	1/2	1	—	11.3	400
—	1/4	6	1/2	1	R15716	13.0	400
15719	5/16	2 1/4	5/8	1 1/4	—	13.3	800
15724	5/16	4 1/4	5/8	1 1/4	—	17.1	800
—	5/16	6	5/8	1 1/4	R15726	20.0	800
15730	3/8	2 1/2	3/4	1 1/2	—	20.5	1,200
15734	3/8	4 1/2	3/4	1 1/2	—	25.6	1,200
—	3/8	6	3/4	1 1/2	R15738	30.0	1,200
SPECIAL	3/8	AL**	3/4	1 1/2	—	—	1,200
15740	1/2	3 1/4	1	2	—	43.8	2,100
15741	1/2	4	1	2	—	48.6	2,100
15743	1/2	6	1	2	R15743	59.0	2,100
—	1/2	12	1	2	R15747	75.0	2,100
—	1/2	18	1	2	R15748	110.0	2,100
SPECIAL	1/2	AL**	1	2	—	—	2,100
15750	5/8	4	1 3/8	2 1/2	—	92.0	3,200
15752	5/8	6	1 3/8	2 1/2	R15752	110.0	3,200
—	5/8	12	1 3/8	2 1/2	R15754	135.0	3,200
SPECIAL	5/8	AL**	1 3/8	2 1/2	—	—	3,200
15760	3/4	4 1/2	1 1/2	3	—	135.0	4,500
15762	3/4	6	1 1/2	3	R15762	153.0	4,500
—	3/4	12	1 1/2	3	R15766	216.0	4,500
—	3/4	18	1 1/2	3	R15769	304.0	4,500

1/4" size only. Electro-Galvanized after threading. **Any length.

SPECIAL SIZES

Forged • Shoulder Pattern
Self-Colored 1030 Carbon Steel★

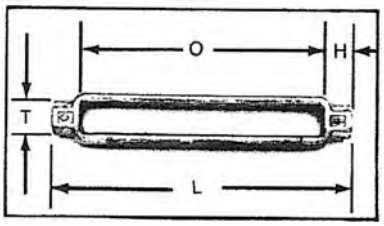


Stock No.	Thread Dia. A	Shank Length B	I.D. Eye C	Min. or Std. Thread Length D	Blanks*	Approx. Wt. Per 100 Pcs.	Rated Capacity
17611	1/4	1	1/2	7/8	—	4.8	400
17621	5/16	1 1/6	5/8	1	—	9.6	800
17629	3/8	1/2	1	3/8	—	14.1	1,200
17630	3/8	3/4	1	5/8	—	15.6	1,200
17631	3/8	1 1/4	3/4	1 1/8	—	14.2	1,200
17632	3/8	2	3/4	1 7/8	—	16.3	1,200
17633	3/8	3 1/2	1	3 3/8	—	22.7	1,200
17640	1/2	1	9/16	7/8	—	16.9	2,100
17641	1/2	1 1/2	1	1 3/8	—	35.3	2,100
17744	1/2	1	1 3/16	1	—	17.5	2,100
17642	1/2	2 3/16	1 3/16	2 1/16	—	41.0	2,100
17662	5/8	2 5/8	1 3/8	2 1/2	—	78.0	3,200
17673	3/4	3 1/2	1 1/2	3 3/8	—	124.0	4,500
—	7/8	5 1/2	1 11/16		R17682	280.0	7,000
17685	1	3 1/4	1 13/16	3 1/8	—	295.0	8,500
17690	1	6	1 13/16	5 3/4	R17690	400.0	8,500
17693	1	12	1 13/16	11 1/2	R17693	550.0	8,500
—	1	18	1 13/16		R17695	780.0	8,500
17696	1 1/4	6	2 3/16	5 3/4	R17696	580.0	13,500
17699	1 1/4	12	2 3/16	11 1/2	R17699	760.0	13,500

*Blanks have no rated capacity.

TURNBUCKLE BODIES

Forged • Carbon Steel★
Self-Colored/Hot Galvanized



Size in Inches Thread Dia. - T		Take-Up - O	Self-Colored Stock No.	Hot Galvanized Stock No.	Head H	Body Length L	Approx. Wt. Per 100 Pcs.	Rated Capacity
1/4	x	4	10604	10605	7/16	4 7/8	11	500
5/16	x	4 1/2	10608	10609	1/2	5 1/4	20	800
3/8	x	6	10612	10613	9/16	7 1/8	33	1,200
1/2	x	3	10614	10615	3/4	4 1/2	30	2,200
1/2	x	6	10616	10617	3/4	7 1/2	56	2,200
1/2	x	9	10620	10621	3/4	10 1/2	70	2,200
1/2	x	12	10624	10625	3/4	13 1/2	104	2,200
5/8	x	3	10626	10627	7/8	4 3/4	50	3,500
5/8	x	6	10628	10629	7/8	7 3/4	85	3,500
5/8	x	9	10632	10633	7/8	10 3/4	108	3,500
5/8	x	12	10636	10637	7/8	13 3/4	145	3,500
3/4	x	6	10640	10641	1 1/16	8 1/8	140	5,200
3/4	x	9	10644	10645	1 1/16	11 1/8	186	5,200
3/4	x	12	10648	10649	1 1/16	14 1/8	210	5,200
3/4	x	18	10652	10653	1 1/16	20 1/8	320	5,200
7/8	x	6	10654	10655	1 3/16	8 3/8	160	7,200
7/8	x	12	10656	10657	1 3/16	14 3/8	272	7,200
7/8	x	18	10660	10661	1 3/16	20 3/8	488	7,200
1	x	6	10664	10665	1 3/8	8 3/4	218	10,000
1	x	12	10668	10669	1 3/8	14 3/4	358	10,000
1	x	18	10672	10673	1 3/8	20 3/4	470	10,000
1-1/8	x	6	10676	10677	1 9/16	9 1/8	340	12,400
1-1/4	x	6	10680	10681	1 3/4	9 1/2	324	15,200
1-1/2	x	6	10684	10685	2 1/8	10 1/4	590	21,400
1-3/4	x	6	10688	10689	2 3/8	10 3/4	850	27,600
2	x	6	10692	10693	2 11/16	11 3/8	1280	34,500

Over 3 million painted parts in stock ready for same day shipping

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

HARDWARE

FORGED SHACKLES

(C-1035 Steel)

Size, work load, and trademark are permanently marked on all shackles. Loads are based on a safety factor of 5 to 1. When tested all shackles are pulled at a uniform rate of speed in a direct tension. ANY DEVIATIONS AS ANGULAR LIFTS, SHOCK LOADS, MODIFICATION OF THE BASIC FORGING, ETC., WILL RESULT IN DRASTICALLY REDUCED MAXIMUM LOADS.

Shackles meet Federal Specifications RRC-271d Type IV.*

TYPE IVA

ANCHOR—ROUND PIN - SCREW PIN - SAFETY

MAX. LOAD TONS	DIMENSIONS-INCHES								EST. WEIGHT PER 100 in LBS.
	INSIDE						O.D. EYES	PIN OR BOLT DIA.	
	SIZE DIA.	WIDTH @ EYES	TOL. ±	WIDTH @ BOW	LENGTH	TOL. ±			
1/3	3/16	3/8	1/16	9/16	7/8	1/16	5/8	1/4	7
1/2	1/4	15/32	1/16	3/4	1 1/8	1/16	3/4	5/16	13
3/4	5/16	17/32	1/16	15/16	1 1/4	1/16	7/8	3/8	21
1	3/8	21/32	1/16	1 1/8	1 7/16	1/8	1	7/16	34
1 1/2	7/16	23/32	1/16	1 5/16	1 11/16	1/8	1 1/8	1/2	49
2	1/2	13/16	1/16	1 1/2	1 15/16	1/8	1 1/4	5/8	71
3 1/4	5/8	1 1/16	1/16	1 7/8	2 1/2	1/8	1 11/16	3/4	143
4 3/4	3/4	1 1/4	1/16	2	3	1/4	1 7/8	7/8	237
6 1/2	7/8	1 7/16	1/16	2 5/8	3 1/4	1/4	2 1/8	1	355
8 1/2	1	1 11/16	1/16	2 3/4	3 3/4	1/4	2 1/2	1 1/8	530
9 1/2	1 1/8	1 13/16	1/16	2 15/16	4 1/4	1/4	2 5/8	1 1/4	700
12	1 1/4	2	1/16	3 1/4	4 1/2	1/4	3	1 3/8	1000
14	1 3/8	2 1/4	1/8	3 1/2	5 1/4	1/4	3 1/4	1 1/2	1250
17	1 1/2	2 3/8	1/8	3 3/4	5 3/4	1/4	3 1/2	1 5/8	1720

ROUND PIN ANCHOR CLASS 1*

SCREW PIN ANCHOR CLASS 2*

SAFETY ANCHOR CLASS 3*

All types of shackles are available in a self-colored or hot-dipped galvanized finish. When ordering specify the size, finish, and type of shackle. Other rust preventative coatings are available on a special basis.

TYPE IVB

CHAIN—ROUND PIN - SCREW PIN - SAFETY

MAX. LOAD TONS	DIMENSIONS-INCHES							EST. WEIGHT PER 100 IN LBS.
	INSIDE					O.D. EYES	PIN OR BOLT DIA.	
	SIZE DIA.	WIDTH	TOL. ±	LENGTH	TOL. ±			
1/2	1/4	15/32	1/16	7/8	1/16	3/4	5/16	10
3/4	5/16	17/32	1/16	1	1/16	7/8	3/8	18
1	3/8	21/32	1/16	1 1/4	1/8	1	7/16	28
1 1/2	7/16	23/32	1/16	1 1/2	1/8	1 1/8	1/2	44
2	1/2	13/16	1/16	1 11/16	1/8	1 1/4	5/8	65
3 1/4	5/8	1 1/16	1/16	2	1/8	1 5/8	3/4	132
4 3/4	3/4	1 1/4	1/16	2 5/16	1/4	1 7/8	7/8	204
6 1/2	7/8	1 7/16	1/16	2 7/8	1/4	2 1/8	1	316
8 1/2	1	1 11/16	1/16	3 1/4	1/4	2 1/2	1 1/8	465

ROUND PIN CHAIN CLASS 1*

SCREW PIN CHAIN CLASS 2*

SAFETY CHAIN CLASS 3*

Safety shackles, indicated by shaded area, are of the same specifications as the regular types except for the bolt, nut and cotter. Additional sizes can be supplied on request.

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
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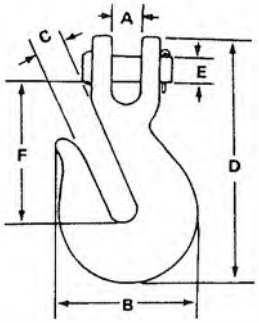
HARDWARE

DROP FORGED HIGH-TEST CHAIN HOOKS

DROP FORGED HIGH-TEST CHAIN HOOKS

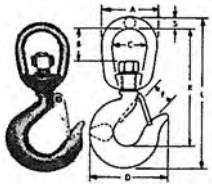
CLEVIS GRAB HOOK



- Made for use on Hi-Test Chain. All hooks are heat treated. Also can be used on BBB & proof coil.
- High Test stamped on every hook.
- Available Self Colored & Zinc Plated.

Chain Size	Work Load Limit In Pounds	A	B	C	D	E	F	Weight Per/100 In Pounds
1/4"	2,600	5/16	1-15/16	3/8	3- 3/8	5/16	2	40
5/16"	4,000	3/8	2- 1/4	7/16	3-15/16	3/8	2- 3/8	65
3/8"	5,400	7/16	2-11/16	1/2	4- 1/2	7/16	2-11/16	100
7/16"	7,200	1/2	3	9/16	5- 1/32	1/2	3	150
1/2"	9,200	19/32	3- 5/16	21/32	5- 5/8	9/16	3-23/64	200
5/8"	11,500	3/4	4- 1/4	25/32	6- 7/8	11/16	4	400
3/4"	16,200	7/8	5- 1/4	15/16	8	3/4	4-19/32	700

HOT GALVANIZED SAFETY SWIVEL HOOKS



Drop forged from C-1035 steel. Heat treated. Latch, spring, machine screw and nut are stainless steel. Loads are based on a safety factor of 5 to 1.

Max. Load-Tons	A	B	C	D	F	L	R	S	Weight Per/100 In Pounds
3/4	2	15/16	1-1/4	2-7/8	7/8	5-9/16	4-15/32	3/8	84
1	2-1/2	1- 5/16	1-1/2	3-3/16	31/32	6-5/8	5- 9/32	1/2	135

FSI ALSO CARRIES AIRCRAFT CABLE.
ASK YOUR REPRESENTATIVE FOR DETAILS.

Fastener Systems, Inc.
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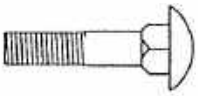
Reynolds

Fasteners

CARRIAGE BOLTS

ROUND HEAD—SQUARE NECK
PLAIN, ZINC & GALVANIZED



	ITEM NUMBER	SIZE Diameter		SIZE Length
BCAR	025-0075	1/4	x	3/4
	025-0100		x	1
	025-0125		x	1 1/4
	025-0150		x	1 1/2
	025-0175		x	1 3/4
	025-0200		x	2
	025-0225		x	2 1/4
	025-0250		x	2 1/2
	025-0275		x	2 3/4
	025-0300		x	3
	025-0350		x	3 1/2
	025-0400		x	4
	025-0450		x	4 1/2
	025-0500		x	5
	025-0550		x	5 1/2
	025-0600		x	6
BCAR	031-0075	5/16	x	3/4
	031-0100		x	1
	031-0125		x	1 1/4
	031-0150		x	1 1/2
	031-0175		x	1 3/4
	031-0200		x	2
	031-0225		x	2 1/4
	031-0250		x	2 1/2
	031-0275		x	2 3/4
	031-0300		x	3
	031-0350		x	3 1/2
	031-0400		x	4
	031-0450		x	4 1/2
	031-0500		x	5
	031-0550		x	5 1/2
	031-0600		x	6
	031-0800		x	8
	031-0900		x	9
BCAR	037-0075	3/8	x	3/4
	037-0100		x	1
	037-0125		x	1 1/4
	037-0150		x	1 1/2
	037-0175		x	1 3/4
	037-0200		x	2
	037-0225		x	2 1/4
	037-0250		x	2 1/2
	037-0275		x	2 3/4
	037-0300		x	3
	037-0325		x	3 1/4
	037-0350		x	3 1/2
	037-0400		x	4
	037-0450		x	4 1/2
	037-0500		x	5
	037-0550		x	5 1/2
	037-0600		x	6
	037-0650		x	6 1/2
	037-0700		x	7
	037-0800		x	8
	037-0900		x	9
	037-1000		x	10
BCAR	037-1100	3/8	x	11
	037-1200		x	12
BCAR	043-0100	7/16	x	1
	043-0125		x	1 1/4
	043-0150		x	1 1/2
	043-0175		x	1 3/4
	043-0200		x	2
	043-0225		x	2 1/4
	043-0250		x	2 1/2
	043-0275		x	2 3/4
	043-0300		x	3
	043-0350		x	3 1/2
	043-0400		x	4
	043-0450		x	4 1/2
	043-0500		x	5
	043-0550		x	5 1/2
	043-0600		x	6
BCAR	050-0100	1/2	x	1
	050-0125		x	1 1/4
	050-0150		x	1 1/2
	050-0175		x	1 3/4
	050-0200		x	2
	050-0225		x	2 1/4
	050-0250		x	2 1/2
	050-0275		x	2 3/4
	050-0300		x	3
	050-0350		x	3 1/2
	050-0400		x	4
	050-0450		x	4 1/2
	050-0500		x	5
	050-0550		x	5 1/2
	050-0600		x	6
	050-0650		x	6 1/2
	050-0700		x	7
	050-0750		x	7 1/2
	050-0800		x	8
	050-0900		x	9
	050-1000		x	10
	050-1100		x	11
	050-1200		x	12
	050-1300		x	13
	050-1400		x	14
BCAR	062-0150	5/8	x	1 1/2
	062-0175		x	1 3/4
	062-0200		x	2
	062-0225		x	2 1/4
	062-0250		x	2 1/2
	062-0275		x	2 3/4
	062-0300		x	3
	062-0350		x	3 1/2
	062-0400		x	4
	062-0450		x	4 1/2
	062-0500		x	5
	062-0550		x	5 1/2
	062-0600		x	6
	062-0650		x	6 1/2
	062-0700		x	7
BCAR	062-0750	5/8	x	7 1/2
	062-0800		x	8
	062-0900		x	9
	062-1000		x	10
BCAR	075-0150	3/4	x	1 1/2
	075-0200		x	2
	075-0250		x	2 1/2
	075-0300		x	3
	075-0350		x	3 1/2
	075-0400		x	4
	075-0450		x	4 1/4
	075-0500		x	5
	075-0550		x	5 1/2
	075-0600		x	6
	075-0650		x	6 1/2
	075-0700		x	7
	075-0750		x	7 1/2
	075-0800		x	8
	075-0850		x	8 1/2
	075-0900		x	9
	075-1000		x	10

Note: Fully threaded up to 6 inches

MOST DIAMETERS ARE ALSO AVAILABLE FROM STOCK IN STAINLESS STEEL.

3/8" DIAMETER AVAILABLE UP TO 16" LENGTH WITH 6" OF THREAD.

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
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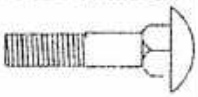
Reynolds

Fasteners

CARRIAGE BOLTS

GRADE 5—ROUND HEAD—SQUARE NECK—MFG HEAD MARK PLAIN—CONFORMS TO ANSI/ ASME B18.5 1978



ITEM NUMBER		SIZE Diameter		Length
BCAR5	031-0075	5/16	x	3/4
	031-0100		x	1
	031-0150		x	1 1/2
	031-0200		x	2
BCAR5	037-0100	3/8	x	1
	037-0125		x	1 1/4
	037-0150		x	1 1/2
	037-0175		x	1 3/4
	037-0200		x	2
	037-0250		x	2 1/2
	037-0300		x	3
BCAR5	050-0150	1/2	x	1 1/2
	050-0200		x	2
	050-0250		x	2 1/2
	050-0300		x	3
	050-0400		x	4
	050-0500		x	5
	050-0600		x	6
BCAR5	062-0200	5/8	x	2
	062-0250		x	2 1/2
	062-0300		x	3
	062-0350		x	3 1/2
	062-0400		x	4
	062-0450		x	4 1/2
	062-0500		x	5
	062-0550		x	5 1/2
	062-0600		x	6
BCAR5	075-0200	3/4	x	2
	075-0250		x	2 1/2
	075-0300		x	3
	075-0350		x	3 1/2
	075-0400		x	4
	075-0450		x	4 1/2
	075-0500		x	5
	075-0550		x	5 1/2
	075-0600		x	6

Note: Fully threaded up to 6 inches

MOST PRODUCTS AVAILABLE IN 18-8 S.S.

CHECK WITH YOUR FSI REPRESENTATIVE FOR AVAILABILITY.

TAP BOLTS

HEX HEAD—FULLY THREADED PLAIN & ZINC

ITEM NUMBER		SIZE Diameter		Length
BTAP	025-0050	1/4	x	1/2
	025-0075		x	3/4
	025-0100		x	1
	025-0125		x	1 1/4
	025-0150		x	1 1/2
	025-0175		x	1 3/4
	025-0200		x	2
	025-0225		x	2 1/4
	025-0250		x	2 1/2
	025-0275		x	2 3/4
	025-0300		x	3
BTAP	031-0075	5/16	x	3/4
	031-0100		x	1
	031-0125		x	1 1/4
	031-0150		x	1 1/2
	031-0175		x	1 3/4
	031-0200		x	2
	031-0225		x	2 1/4
	031-0250		x	2 1/2
	031-0275		x	2 3/4
	031-0300		x	3
BTAP	037-0062	3/8	x	5/8
	037-0075		x	3/4
	037-0100		x	1
	037-0125		x	1 1/4
	037-0150		x	1 1/2
	037-0175		x	1 3/4
	037-0200		x	2
	037-0225		x	2 1/4
	037-0250		x	2 1/2
	037-0275		x	2 3/4
	037-0300		x	3
	037-0350		x	3 1/2
	037-0400		x	4
	037-0450		x	4 1/2
	037-0500		x	5
	037-0550		x	5 1/2
	037-0600		x	6
BTAP	050-0075	1/2	x	3/4
	050-0100		x	1
	050-0125		x	1 1/4
	050-0150		x	1 1/2
	050-0175		x	1 3/4
	050-0200		x	2
	050-0225		x	2 1/4
	050-0250		x	2 1/2
	050-0275		x	2 3/4
	050-0300		x	3
	050-0350		x	3 1/2
	050-0400		x	4
	050-0450		x	4 1/2
	050-0500		x	5
	050-0550		x	5 1/2
	050-0600	1/2	x	6
BTAP	062-0125	5/8	x	1 1/4
	062-0150		x	1 1/2
	062-0175		x	1 3/4
	062-0200		x	2
	062-0225		x	2 1/4
	062-0250		x	2 1/2
	062-0275		x	2 3/4
	062-0300		x	3
	062-0325		x	3 1/4
	062-0350		x	3 1/2
	062-0375		x	3 3/4
	062-0400		x	4
	062-0500		x	5
	062-0600		x	6
BTAP	075-0125	3/4	x	1 1/4
	075-0150		x	1 1/2
	075-0175		x	1 3/4
	075-0200		x	2
	075-0225		x	2 1/4
	075-0250		x	2 1/2
	075-0275		x	2 3/4
	075-0300		x	3
	075-0325		x	3 1/4
	075-0350		x	3 1/2
	075-0375		x	3 3/4
	075-0400		x	4

TAP BOLTS

GRADE 5—HEX HEAD—FULLY THREADED—MFG HEAD MARK PLAIN—CONFORMS TO ANSI/ ASME B18.2.1 Thread Length IFI 1965 Edition

ITEM NUMBER		SIZE Diameter		Length
BTAP5	025-0050	1/4	x	1/2
	025-0075		x	3/4
	025-0100		x	1
	025-0125		x	1 1/4
	025-0150		x	1 1/2
	025-0175		x	1 3/4
	025-0200		x	2
	025-0225		x	2 1/4
	025-0250		x	2 1/2
	025-0275		x	2 3/4
	025-0300		x	3
BTAP5	031-0075	5/16	x	3/4
	031-0100		x	1
	031-0125		x	1 1/4
	031-0150		x	1 1/2
	031-0175		x	1 3/4
	031-0200		x	2

Communication is the key to FSI's success

Fastener Systems, Inc.
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FAX (610) 692-8151

Reynolds

Fasteners

TAP BOLTS (continued)

GRADE 5—HEX HEAD—FULLY THREADED—MFG HEAD MARK
PLAIN—CONFORMS TO ANSI/ASME B18.2.1 Thread Length IFI 1965 Edition

BTAP5	031-0225	5/16	x 2 1/4
	031-0250		x 2 1/2
	031-0275		x 2 3/4
	031-0300		x 3
BTAP5	037-0062	3/8	x 5/8
	037-0075		x 3/4
	037-0100		x 1
	037-0125		x 1 1/4
	037-0150		x 1 1/2
	037-0175		x 1 3/4
	037-0200		x 2
	037-0225		x 2 1/4
	037-0250		x 2 1/2
	037-0275		x 2 3/4
	037-0300		x 3
	037-0350		x 3 1/2
	037-0400		x 4
	037-0450		x 4 1/2
	037-0500		x 5
	037-0550		x 5 1/2
	037-0600		x 6
BTAP5	050-0075	1/2	x 3/4
	050-0100		x 1
	050-0125		x 1 1/4
	050-0150		x 1 1/2
	050-0175		x 1 3/4
	050-0200		x 2
	050-0225		x 2 1/4
	050-0250		x 2 1/2
	050-0275		x 2 3/4
	050-0300		x 3
	050-0350		x 3 1/2
	050-0400		x 4
	050-0450		x 4 1/2
	050-0500		x 5
	050-0550		x 5 1/2
	050-0600		x 6
BTAP5	062-0125	5/8	x 1 1/4
	062-0150		x 1 1/2
	062-0175		x 1 3/4
	062-0200		x 2
	062-0225		x 2 1/4
	062-0250		x 2 1/2
	062-0275		x 2 3/4
	062-0300		x 3
	062-0325		x 3 1/4
	062-0350		x 3 1/2
	062-0375		x 3 3/4
	062-0400		x 4
	062-0500		x 5
	062-0600		x 6
BTAP5	075-0125	3/4	x 1 1/4
	075-0150		x 1 1/2

ITEM NUMBER		SIZE Diameter	SIZE Length
BTAP5	075-0175	3/4	x 1 3/4
	075-0200		x 2
	075-0225		x 2 1/4
	075-0250		x 2 1/2
	075-0275		x 2 3/4
	075-0300		x 3
	075-0325		x 3 1/4
	075-0350		x 3 1/2
	075-0375		x 3 3/4
	075-0400		x 4

MACHINE BOLTS

HEX HEAD
PLAIN, ZINC & GALVANIZED

ITEM NUMBER		SIZE Diameter	SIZE Length
BHEX	025-0150	1/4	x 1 1/2
	025-0200		x 2
	025-0250		x 2 1/2
	025-0300		x 3
	025-0350		x 3 1/2
	025-0400		x 4
	025-0450		x 4 1/2
	025-0500		x 5
	025-0600		x 6
BHEX	031-0100	5/16	x 1
	031-0125		x 1 1/4
	031-0150		x 1 1/2
	031-0200		x 2
	031-0250		x 2 1/2
	031-0300		x 3
	031-0350		x 3 1/2
	031-0400		x 4
	031-0450		x 4 1/2
	031-0500		x 5
	031-0600		x 6
	031-0650		x 6 1/2
	031-0700		x 7
	031-0750		x 7 1/2
	031-0800		x 8
BHEX	037-0100	3/8	x 1
	037-0125		x 1 1/4
	037-0150		x 1 1/2
	037-0200		x 2
	037-0250		x 2 1/2

MACHINE BOLTS (continued)

HEX HEAD
PLAIN, ZINC & GALVANIZED

BHEX	037-0300	3/8	x 3
	037-0350		x 3 1/2
	037-0400		x 4
	037-0450		x 4 1/2
	037-0500		x 5
	037-0550		x 5 1/2
	037-0600		x 6
	037-0650		x 6 1/2
	037-0700		x 7
	037-0750		x 7 1/2
	037-0800		x 8
	037-0850		x 8 1/2
	037-0900		x 9
	037-0950		x 9 1/2
	037-1000		x 10
	037-1050		x 10 1/2
	037-1100		x 11
	037-1150		x 11 1/2
	037-1200		x 12
BHEX	050-0100	1/2	x 1
	050-0125		x 1 1/4
	050-0150		x 1 1/2
	050-0175		x 1 3/4
	050-0200		x 2
	050-0225		x 2 1/4
	050-0250		x 2 1/2
	050-0275		x 2 3/4
	050-0300		x 3
	050-0350		x 3 1/2
	050-0400		x 4
	050-0450		x 4 1/2
	050-0500		x 5
	050-0550		x 5 1/2
	050-0600		x 6
	050-0650		x 6 1/2
	050-0700		x 7
	050-0750		x 7 1/2
	050-0800		x 8
	050-0850		x 8 1/2
	050-0900		x 9
	050-0950		x 9 1/2
	050-1000		x 10
	050-1050		x 10 1/2
	050-1100		x 11
	050-1150		x 11 1/2
	050-1200		x 12
	050-1300		x 13
	050-1400		x 14
	050-1500		x 15
	050-1600		x 16
	050-1800		x 18

ALL PARTS AVAILABLE IN STAINLESS STEEL

Fastener Systems, Inc.
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Reynolds

Fasteners

MACHINE BOLTS (continued)

HEX HEAD

PLAIN, ZINC & GALVANIZED

	ITEM NUMBER	SIZE Diameter		SIZE Length
BHEX	062-0125	5/8	x	1 1/4
	062-0150		x	1 1/2
	062-0175		x	1 3/4
	062-0200		x	2
	062-0225		x	2 1/4
	062-0250		x	2 1/2
	062-0275		x	2 3/4
	062-0300		x	3
	062-0325		x	3 1/4
	062-0350		x	3 1/2
	062-0375		x	3 3/4
	062-0400		x	4
	062-0450		x	4 1/2
	062-0500		x	5
	062-0550		x	5 1/2
	062-0600		x	6
	062-0650		x	6 1/2
	062-0700		x	7
	062-0750		x	7 1/2
	062-0800		x	8
	062-0850		x	8 1/2
	062-0900		x	9
	062-1000		x	10
	062-1100		x	11
	062-1200		x	12
	062-1300		x	13
	062-1400		x	14
	062-1500		x	15
	062-1600		x	16
	062-1700		x	17
	062-1800		x	18
	062-2000		x	20
BHEX	075-0125	3/4	x	1 1/4
	075-0150		x	1 1/2
	075-0175		x	1 3/4
	075-0200		x	2
	075-0225		x	2 1/4
	075-0250		x	2 1/2
	075-0275		x	2 3/4
	075-0300		x	3
	075-0325		x	3 1/4
	075-0350		x	3 1/2
	075-0375		x	3 3/4
	075-0400		x	4
	075-0450		x	4 1/2
	075-0500		x	5
	075-0550		x	5 1/2
	075-0600		x	6
	075-0650		x	6 1/2
	075-0700		x	7
	075-0750		x	7 1/2
	075-0800		x	8
	075-0850		x	8 1/2
	075-0900		x	9
	075-1000		x	10
	075-1100		x	11
	075-1200		x	12
BHEX	075-1300	3/4	x	13
	075-1400		x	14
	075-1500		x	15
	075-1600		x	16
	075-1800		x	18
	075-2000		x	20
BHEX	087-0150	7/8	x	1 1/2
	087-0175		x	1 3/4
	087-0200		x	2
	087-0225		x	2 1/4
	087-0250		x	2 1/2
	087-0275		x	2 3/4
	087-0300		x	3
	087-0325		x	3 1/4
	087-0350		x	3 1/2
	087-0375		x	3 3/4
	087-0400		x	4
	087-0450		x	4 1/2
	087-0500		x	5
	087-0550		x	5 1/2
	087-0600		x	6
	087-0650		x	6 1/2
	087-0700		x	7
	087-0750		x	7 1/2
	087-0800		x	8
	087-0850		x	8 1/2
	087-0900		x	9
	087-1000		x	10
	087-1100		x	11
	087-1200		x	12
	087-1300		x	13
	087-1400		x	14
	087-1500		x	15
	087-1600		x	16
	087-1800		x	18
	087-2000		x	20
BHEX	100-0200	1	x	2
	100-0225		x	2 1/4
	100-0250		x	2 1/2
	100-0275		x	2 3/4
	100-0300		x	3
	100-0325		x	3 1/4
	100-0350		x	3 1/2
	100-0375		x	3 3/4
	100-0400		x	4
	100-0450		x	4 1/2
	100-0500		x	5
	100-0550		x	5 1/2
	100-0600		x	6
	100-0650		x	6 1/2
	100-0700		x	7
	100-0750		x	7 1/2
	100-0800		x	8
	100-0850		x	8 1/2
	100-0900		x	9
	100-1000		x	10
	100-1100		x	11
BHEX	100-1200	1	x	12
	100-1300		x	13
	100-1400		x	14
	100-1500		x	15
	100-1600		x	16
	100-1800		x	18
	100-2000		x	20
BHEX	112-0300	1 1/8	x	3
	112-0350		x	3 1/2
	112-0400		x	4
	112-0450		x	4 1/2
	112-0500		x	5
	112-0550		x	5 1/2
	112-0600		x	6
	112-0700		x	7
	112-0800		x	8
	112-0900		x	9
	112-0950		x	9 1/2
	112-1000		x	10
	112-1100		x	11
	112-1200		x	12
	112-1500		x	15
	112-1600		x	16
BHEX	125-0300	1 1/4	x	3
	125-0350		x	3 1/2
	125-0400		x	4
	125-0450		x	4 1/2
	125-0500		x	5
	125-0550		x	5 1/2
	125-0600		x	6
	125-0650		x	6 1/2
	125-0700		x	7
	125-0800		x	8
	125-0900		x	9
	125-0950		x	9 1/2
	125-1000		x	10
	125-1100		x	11
	125-1200		x	12
	125-1400		x	14
	125-1600		x	16
BHEX	150-0300	1 1/2	x	3
	150-0350		x	3 1/2
	150-0400		x	4
	150-0450		x	4 1/2
	150-0500		x	5
	150-0550		x	5 1/2
	150-0600		x	6
	150-0650		x	6 1/2
	150-0700		x	7
	150-0750		x	7 1/2
	150-0800		x	8
	150-0850		x	8 1/2
	150-0900		x	9
	150-0950		x	9 1/2
	150-1000		x	10
	150-1100		x	11
	150-1200		x	12

Same day color match - In house painting

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Reynolds

Fasteners

MACHINE BOLTS (continued)

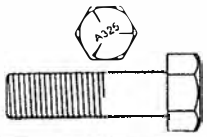
HEX HEAD
PLAIN, ZINC & GALVANIZED

ITEM NUMBER		SIZE Diameter		Length
BHEX	150-1400	1 1/2	x	14
	150-1600		x	16
	150-2000		x	20
BHEX	175-0400	1 3/4	x	4
	175-0500		x	5
	175-0600		x	6
	175-0700		x	7
	175-0800		x	8
	175-0900		x	9
	175-1000		x	10
	175-1100		x	11
	175-1200		x	12
	175-1400		x	14
	175-1500		x	15
	175-1600		x	16
BHEX	200-0500	2	x	5
	200-0600		x	6
	200-0700		x	7
	200-0800		x	8
	200-0900		x	9
	200-1000		x	10
	200-1100		x	11
	200-1200		x	12
	200-1300		x	13
	200-1400		x	14
	200-1500		x	15
	200-1600		x	16

* Galvanized Machine Bolts
10 inches and longer have 6 inches of thread.

HIGH STRENGTH STRUCTURAL BOLTS WITH HEAVY HEX NUTS—UNATTACHED

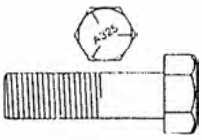
PLAIN & GALVANIZED—CONFORMS TO ASTM A-325 TYPE 1—MFG HEAD MARK



ITEM NUMBER		SIZE Diameter		Length
B325	075-0150	3/4	x	1 1/2
	075-0175		x	1 3/4
	075-0200		x	2
	075-0225		x	2 1/4
	075-0250		x	2 1/2
	075-0275		x	2 3/4
	075-0300		x	3
	075-0325		x	3 1/4
	075-0350		x	3 1/2
B325	087-0200	7/8	x	2
	087-0225		x	2 1/4
	087-0250		x	2 1/2
	087-0275		x	2 3/4
	087-0300		x	3
	087-0325		x	3 1/4
	087-0350		x	3 1/2
	087-0375		x	3 3/4
	087-0400		x	4
B325	100-0200	1	x	2
	100-0225		x	2 1/4
	100-0250		x	2 1/2
	100-0275		x	2 3/4
	100-0300		x	3
	100-0325		x	3 1/4
	100-0350		x	3 1/2
	100-0375		x	3 3/4
	100-0400		x	4

HIGH STRENGTH DOMESTIC STRUCTURAL BOLTS

PLAIN & MECHANICAL GALVANIZED—CONFORMS TO ASTM A-325 TYPE 1—MFG HEAD MARK



ITEM NUMBER		SIZE Diameter		Length
B325B	075-0175	3/4	x	1 3/4
	075-0200		x	2
	075-0225		x	2 1/4
	075-0250		x	2 1/2
	075-0275		x	2 3/4
	075-0300		x	3
	075-0325		x	3 1/4
	075-0350		x	3 1/2
	075-0375		x	3 3/4
	075-0400		x	4
B325B	087-0175	7/8	x	1 3/4
	087-0200		x	2
	087-0225		x	2 1/4
	087-0250		x	2 1/2
	087-0275		x	2 3/4
	087-0300		x	3
	087-0325		x	3 1/4
	087-0350		x	3 1/2
	087-0375		x	3 3/4
	087-0400		x	4
B325B	100-0225	1	x	2 1/4
	100-0250		x	2 1/2
	100-0275		x	2 3/4
	100-0300		x	3
	100-0325		x	3 1/4
	100-0350		x	3 1/2
	100-0375		x	3 3/4
	100-0400		x	4

NEED STAINLESS ?

WE STOCK A WIDE VARIETY OF HARDWARE IN 18-8 S.S.

WE EVEN HAVE ITEMS NOT AVAILABLE ANY WHERE ELSE.

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640 Snyder Avenue
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West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

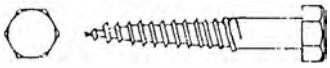
Reynolds

Fasteners

LAG BOLTS

HEX HEAD
PLAIN, GALVANIZED & ZINC

	ITEM NUMBER	SIZE Diameter		Length
BLAG	025-0100	1/4	x	1
	025-0125		x	1 1/4
	025 0150		x	1 1/2
	025-0175		x	1 3/4
	025-0200		x	2
	025-0250		x	2 1/2
	025-0300		x	3
	025 0350		x	3 1/2
	025-0400		x	4
	025-0450		x	4 1/2
	025-0500		x	5
	025-0600		x	6
BLAG	031-0100	5/16	x	1
	031-0125		x	1 1/4
	031-0150		x	1 1/2
	031-0175		x	1 3/4
	031-0200		x	2
	031-0250		x	2 1/2
	031-0300		x	3
	031-0350		x	3 1/2
	031-0400		x	4
	031-0450		x	4 1/2
	031-0500		x	5
	031 0600		x	6
BLAG	037 0125	3/8	x	1 1/4
	037-0150		x	1 1/2
	037-0175		x	1 3/4
	037 0200		x	2
	037-0250		x	2 1/2
	037-0300		x	3
	037-0350		x	3 1/2
	037-0400		x	4
	037-0450		x	4 1/2
	037-0500		x	5
	037-0550		x	5 1/2
	037-0600		x	6
	037-0700		x	7
	037-0800		x	8
BLAG	050-0175	1/2	x	1 3/4
	050-0200		x	2
	050 0250		x	2 1/2
	050-0300		x	3
	050-0350		x	3 1/2
	050-0400		x	4
	050-0450		x	4 1/2
	050-0500		x	5
	050-0600		x	6
	050-0700		x	7
	050-0800		x	8
	050-0900		x	9
	050-1000		x	10
	050-1100		x	11
	050-1200		x	12



BLAG	062-0200	5/8	x	2
	062-0250		x	2 1/2
	062-0300		x	3
	062-0350		x	3 1/2
	062-0400		x	4
	062-0450		x	4 1/2
	062-0500		x	5
	062-0550		x	5 1/2
	062-0600		x	6
	062-0650		x	6 1/2
	062-0700		x	7
	062-0750		x	7 1/2
	062-0800		x	8
	062-0850		x	8 1/2
	062-0900		x	9
	062-0950		x	9 1/2
	062-1000		x	10
	062-1100		x	11
	062-1200		x	12
BLAG	075-0400	3/4	x	4
	075-0450		x	4 1/2
	075-0500		x	5
	075-0550		x	5 1/2
	075 0600		x	6
	075-0650		x	6 1/2
	075-0700		x	7
	075 0800		x	8
	075-0900		x	9
	075-1000		x	10
	075-1100		x	11
	075-1200		x	12

CAP SCREWS

GRADE 2—HEX HEAD
PLAIN & ZINC PLATED

	ITEM NUMBER	SIZE Diameter		Length
CSLC	025-0050	1/4 - 20	x	1/2
	025-0062		x	5/8
	025-0075		x	3/4
	025-0087		x	7/8
	025-0100		x	1
	025-0125		x	1 1/4
	025-0150		x	1 1/2
	025-0175		x	1 3/4
	025-0200		x	2
	025-0225		x	2 1/4
	025-0250		x	2 1/2

CAP SCREWS

GRADE 2—HEX HEAD
PLAIN & ZINC PLATED

CSLC	025-0275	1/4 20	x	2 3/4
	025-0300		x	3
	025-0325		x	3 1/4
	025-0350		x	3 1/2
	025-0375		x	3 3/4
	025-0400		x	4
	025-0450		x	4 1/2
	025-0500		x	5
	025-0550		x	5 1/2
	025-0600		x	6
CSLC	031-0050	5/16 - 18	x	1/2
	031-0062		x	5/8
	031-0075		x	3/4
	031-0087		x	7/8
	031-0100		x	1
	031-0125		x	1 1/4
	031 0150		x	1 1/2
	031-0175		x	1 3/4
	031-0200		x	2
	031-0225		x	2 1/4
	031-0250		x	2 1/2
	031 0275		x	2 3/4
	031-0300		x	3
	031-0325		x	3 1/4
	031-0350		x	3 1/2
	031-0375		x	3 3/4
	031-0400		x	4
	031-0450		x	4 1/2
	031-0500		x	5
	031-0550		x	5 1/2
	031-0600		x	6
CSLC	037-0050	3/8 - 16	x	1/2
	037-0062		x	5/8
	037-0075		x	3/4
	037-0087		x	7/8
	037-0100		x	1
	037-0125		x	1 1/4
	037-0150		x	1 1/2
	037-0175		x	1 3/4
	037-0200		x	2
	037-0225		x	2 1/4
	037-0250		x	2 1/2
	037-0275		x	2 3/4
	037-0300		x	3
	037-0325		x	3 1/4
	037-0350		x	3 1/2
	037-0375		x	3 3/4
	037-0400		x	4
	037-0450		x	4 1/2
	037-0500		x	5
	037-0550		x	5 1/2
	037-0600		x	6
CSLC	043-0075	7/16 - 14	x	3/4
	043-0087		x	7/8
	043-0100		x	1
	043-0125		x	1 1/4
	043-0150		x	1 1/2

We put the *fast* in fasteners

Fastener Systems, Inc.
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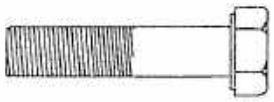
Reynolds

Fasteners

CAP SCREWS (continued)

GRADE 2—HEX HEAD
PLAIN & ZINC PLATED

ITEM NUMBER		SIZE Diameter		SIZE Length
CSLC	043-0175	7/16 - 14	x	1 3/4
	043-0200		x	2
	043-0225		x	2 1/4
	043-0250		x	2 1/2
	043-0275		x	2 3/4
	043-0300		x	3
	043-0325		x	3 1/4
	043-0350		x	3 1/2
	043-0375		x	3 3/4
	043-0400		x	4
	043-0450		x	4 1/2
	043-0500		x	5
	043-0550		x	5 1/2
	043-0600		x	6
CSLC	050-0075	1/2 - 13	x	3/4
	050-0087		x	7/8
	050-0100		x	1
	050-0125		x	1 1/4
	050-0150		x	1 1/2
	050-0175		x	1 3/4
	050-0200		x	2
	050-0225		x	2 1/4
	050-0250		x	2 1/2
	050-0275		x	2 3/4
	050-0300		x	3
	050-0325		x	3 1/4
	050-0350		x	3 1/2
	050-0375		x	3 3/4
	050-0400		x	4
	050-0450		x	4 1/2
	050-0500		x	5
	050-0550		x	5 1/2
	050-0600		x	6
CSLC	062-0100	5/8 - 11	x	1
	062-0125		x	1 1/4
	062-0150		x	1 1/2
	062-0175		x	1 3/4
	062-0200		x	2
	062-0225		x	2 1/4
	062-0250		x	2 1/2
	062-0275		x	2 3/4
	062-0300		x	3
	062-0325		x	3 1/4
	062-0350		x	3 1/2
	062-0375		x	3 3/4
	062-0400		x	4
	062-0450		x	4 1/2
	062-0500		x	5
	062-0550		x	5 1/2
	062-0600		x	6
CSLC	075-0100	3/4 - 10	x	1
	075-0125		x	1 1/4
	075-0150		x	1 1/2
	075-0175		x	1 3/4
	075-0200		x	2
	075-0225	3/4 - 10	x	2 1/4
	075-0250		x	2 1/2
	075-0275		x	2 3/4
	075-0300		x	3
	075-0325		x	3 1/4
	075-0350		x	3 1/2
	075-0375		x	3 3/4
	075-0400		x	4
	075-0450		x	4 1/2
	075-0500		x	5
	075-0550		x	5 1/2
	075-0600		x	6
	075-0650		x	6 1/2
	075-0700		x	7
	075-0750		x	7 1/2
	075-0800		x	8
CSLC	087-0150	7/8 - 9	x	1 1/2
	087-0175		x	1 3/4
	087-0200		x	2
	087-0225		x	2 1/4
	087-0250		x	2 1/2
	087-0275		x	2 3/4
	087-0300		x	3
	087-0325		x	3 1/4
	087-0350		x	3 1/2
	087-0375		x	3 3/4
	087-0400		x	4
	087-0450		x	4 1/2
	087-0500		x	5
	087-0550		x	5 1/2
	087-0600		x	6
	087-0650		x	6 1/2
	087-0700		x	7
	087-0750		x	7 1/2
	087-0800		x	8
CSLC	100-0200	1 - 8	x	2
	100-0225		x	2 1/4
	100-0250		x	2 1/2
	100-0275		x	2 3/4
	100-0300		x	3
	100-0325		x	3 1/4
	100-0350		x	3 1/2
	100-0375		x	3 3/4
	100-0400		x	4
	100-0450		x	4 1/2
	100-0500		x	5
	100-0550		x	5 1/2
	100-0600		x	6
	100-0650		x	6 1/2
	100-0700		x	7
	100-0750		x	7 1/2
	100-0800		x	8



CAP SCREWS

GRADE 5—NC—HEX HEAD—MFG HEAD MARK
PLAIN & ZINC PLATED—CONFORMS TO ANSI/ASME B18.2.1 1981 (Foreign & Domestic)

ITEM NUMBER		SIZE Diameter		SIZE Length
CSG5	025-0050	1/4 - 20	x	1/2
	025-0062		x	5/8
	025-0075		x	3/4
	025-0087		x	7/8
	025-0100		x	1
	025-0125		x	1 1/4
	025-0150		x	1 1/2
	025-0175		x	1 3/4
	025-0200		x	2
	025-0225		x	2 1/4
	025-0250		x	2 1/2
	025-0275		x	2 3/4
	025-0300		x	3
	025-0325		x	3 1/4
	025-0350		x	3 1/2
	025-0375		x	3 3/4
	025-0400		x	4
	025-0450		x	4 1/2
	025-0500		x	5
	025-0550		x	5 1/2
	025-0600		x	6
CSG5	031-0050	5/16 - 18	x	1/2
	031-0062		x	5/8
	031-0075		x	3/4
	031-0087		x	7/8
	031-0100		x	1
	031-0125		x	1 1/4
	031-0150		x	1 1/2
	031-0175		x	1 3/4
	031-0200		x	2
	031-0225		x	2 1/4
	031-0250		x	2 1/2
	031-0275		x	2 3/4
	031-0300		x	3
	031-0325		x	3 1/4
	031-0350		x	3 1/2
	031-0375		x	3 3/4
	031-0400		x	4
	031-0450		x	4 1/2
	031-0500		x	5
	031-0550		x	5 1/2
	031-0600		x	6
CSG5	037-0050	3/8 - 16	x	1/2
	037-0062		x	5/8
	037-0075		x	3/4
	037-0087		x	7/8
	037-0100		x	1
	037-0125		x	1 1/4

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Reynolds

Fasteners

CAP SCREWS (continued)

GRADE 5—NC—HEX HEAD—MFG HEAD MARK

PLAIN & ZINC PLATED—CONFORMS TO ANSI/ASME B18.2.1 1981 (Foreign & Domestic)

	ITEM NUMBER	SIZE Diameter		SIZE Length
CSG5	037-0150	3/8 - 16	x	1 1/2
	037-0175		x	1 3/4
	037-0200		x	2
	037-0225		x	2 1/4
	037-0250		x	2 1/2
	037-0275		x	2 3/4
	037-0300		x	3
	037-0325		x	3 1/4
	037-0350		x	3 1/2
	037-0375		x	3 3/4
	037-0400		x	4
	037-0450		x	4 1/2
	037-0500		x	5
	037-0550		x	5 1/2
	037-0600		x	6
CSG5	043-0075	7/16 - 14	x	3/4
	043-0087		x	7/8
	043-0100		x	1
	043-0125		x	1 1/4
	043-0150		x	1 1/2
	043-0175		x	1 3/4
	043-0200		x	2
	043-0225		x	2 1/4
	043-0250		x	2 1/2
	043-0275		x	2 3/4
	043-0300		x	3
	043-0325		x	3 1/4
	043-0350		x	3 1/2
	043-0375		x	3 3/4
	043-0400		x	4
	043-0450		x	4 1/2
	043-0500		x	5
	043-0550		x	5 1/2
	043-0600		x	6
CSG5	050-0075	1/2 - 13	x	3/4
	050-0087		x	7/8
	050-0100		x	1
	050-0125		x	1 1/4
	050-0150		x	1 1/2
	050-0175		x	1 3/4
	050-0200		x	2
	050-0225		x	2 1/4
	050-0250		x	2 1/2
	050-0275		x	2 3/4
	050-0300		x	3
	050-0325		x	3 1/4
	050-0350		x	3 1/2
	050-0375		x	3 3/4
	050-0400		x	4
	050-0450		x	4 1/2
	050-0500		x	5
	050-0550		x	5 1/2
	050-0600		x	6
	050-0625		x	6 1/4
	050-0650		x	6 1/2
	050-0700		x	7
CSG5	050-0750	1/2 - 13	x	7 1/2
	050-0800		x	8
	050-0850		x	8 1/2
	050-0900		x	9
	050-0950		x	9 1/2
	050-1000		x	10
CSG5	056-0100	9/16 - 12	x	1
	056-0125		x	1 1/4
	056-0150		x	1 1/2
	056-0175		x	1 3/4
	056-0200		x	2
	056-0225		x	2 1/4
	056-0250		x	2 1/2
	056-0275		x	2 3/4
	056-0300		x	3
	056-0350		x	3 1/2
	056-0400		x	4
	056-0450		x	4 1/2
	056-0500		x	5
	056-0550		x	5 1/2
	056-0600		x	6
CSG5	062-0100	5/8 - 11	x	1
	062-0125		x	1 1/4
	062-0150		x	1 1/2
	062-0175		x	1 3/4
	062-0200		x	2
	062-0225		x	2 1/4
	062-0250		x	2 1/2
	062-0275		x	2 3/4
	062-0300		x	3
	062-0325		x	3 1/4
	062-0350		x	3 1/2
	062-0375		x	3 3/4
	062-0400		x	4
	062-0450		x	4 1/2
	062-0500		x	5
	062-0550		x	5 1/2
	062-0600		x	6
	062-0650		x	6 1/2
	062-0700		x	7
	062-0750		x	7 1/2
	062-0800		x	8
	062-0850		x	8 1/2
	062-0900		x	9
	062-0950		x	9 1/2
	062-1000		x	10
CSG5	075-0100	3/4 - 10	x	1
	075-0125		x	1 1/4
	075-0150		x	1 1/2
	075-0175		x	1 3/4
	075-0200		x	2
	075-0225		x	2 1/4
	075-0250		x	2 1/2
	075-0275		x	2 3/4
	075-0300		x	3
	075-0325		x	3 1/4
	075-0350		x	3 1/2

	075-0375		x	3 3/4
	075-0400		x	4
	075-0450		x	4 1/2
	075-0500		x	5
	075-0550		x	5 1/2
	075-0600		x	6
CSG5	075-0650	3/4 - 10	x	6 1/2
	075-0700		x	7
	075-0750		x	7 1/2
	075-0800		x	8
	075-0850		x	8 1/2
	075-0900		x	9
	075-0950		x	9 1/2
	075-1000		x	10
CSG5	087-0150	7/8 - 9	x	1 1/2
	087-0175		x	1 3/4
	087-0200		x	2
	087-0225		x	2 1/4
	087-0250		x	2 1/2
	087-0275		x	2 3/4
	087-0300		x	3
	087-0325		x	3 1/4
	087-0350		x	3 1/2
	087-0375		x	3 3/4
	087-0400		x	4
	087-0450		x	4 1/2
	087-0500		x	5
	087-0550		x	5 1/2
	087-0600		x	6
	087-0650		x	6 1/2
	087-0700		x	7
	087-0750		x	7 1/2
	087-0800		x	8
	087-0850		x	8 1/2
	087-0900		x	9
	087-0950		x	9 1/2
	087-1000		x	10
CSG5	100-0150	1 - 8	x	1 1/2
	100-0175		x	1 3/4
	100-0200		x	2
	100-0225		x	2 1/4
	100-0250		x	2 1/2
	100-0275		x	2 3/4
	100-0300		x	3
	100-0325		x	3 1/4
	100-0350		x	3 1/2
	100-0375		x	3 3/4
	100-0400		x	4
	100-0450		x	4 1/2
	100-0500		x	5
	100-0550		x	5 1/2
	100-0600		x	6
	100-0650		x	6 1/2
	100-0700		x	7
	100-0750		x	7 1/2
	100-0800		x	8
	100-0850		x	8 1/2

Over 3 million painted parts in stock ready for same day shipping

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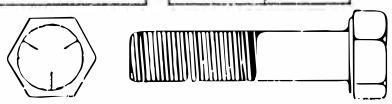
Reynolds

Fasteners

CAP SCREWS (continued)

GRADE 5—NC—HEX HEAD—MFG HEAD MARK

PLAIN & ZINC PLATED—CONFORMS TO ANSI/ASME B18.2.1 1981 (Foreign & Domestic)



	ITEM NUMBER	SIZE Diameter		SIZE Length
CSG5	100-0900	1 - 8	x	9
	100-0950		x	9 1/2
	100-1000		x	10
CSG5	112-0250	1 1/8 - 7	x	2 1/2
	112-0275		x	2 3/4
	112-0300		x	3
	112-0350		x	3 1/2
	112-0400		x	4
	112-0450		x	4 1/2
	112-0500		x	5
	112-0550		x	5 1/2
	112-0600		x	6
	112-0650		x	6 1/2
	112-0700		x	7
	112-0750		x	7 1/2
	112-0800		x	8
	112-0850		x	8 1/2
	112-0900		x	9
	112-1000		x	10
	112-1200		x	12
CSG5	125-0300	1 1/4 - 7	x	3
	125-0325		x	3 1/4
	125-0350		x	3 1/2
	125-0400		x	4
	125-0450		x	4 1/2
	125-0500		x	5
	125-0550		x	5 1/2
	125-0600		x	6
	125-0650		x	6 1/2
	125-0700		x	7
CSG5	125-0750		x	7 1/2
	125-0800		x	8
	125-0850		x	8 1/2
	125-0900		x	9
	125-1000		x	10
CSG5	150-0300	1 1/2 - 6	x	3
	150-0350		x	3 1/2
	150-0400		x	4
	150-0450		x	4 1/2
	150-0500		x	5
	150-0550		x	5 1/2
	150-0600		x	6
	150-0650		x	6 1/2
	150-0700		x	7
	150-0750		x	7 1/.2
	150-0800		x	8
	150-0850		x	8 1/2
	150-0900		x	9
	150-1000		x	10

CAP SCREWS

GRADE 5—NF—HEX HEAD—MFG HEAD MARK

PLAIN & ZINC PLATED—CONFORMS TO ANSI/ASME B18.2.1 1981 (Foreign & Domestic)

	ITEM NUMBER	SIZE Diameter		SIZE Length
CSG5F	025-0050	1/4 - 28	x	1/2
	025-0062		x	5/8
	025-0075		x	3/4
	025-0087		x	7/8
	025-0100		x	1
	025-0125		x	1 1/4
	025-0150		x	1 1/2
	025-0175		x	1 3/4
	025-0200		x	2
	025-0225		x	2 1/4
	025-0250		x	2 1/2
	025-0275		x	2 3/4
	025-0300		x	3
	025-0350		x	3 1/2
	025-0375		x	3 3/4
	025-0400		x	4
	025-0450		x	4 1/2
	025-0500		x	5
	025-0550		x	5 1/2
	025-0600		x	6
CSG5F	031-0050	5/16 - 24	x	1/2
	031-0062		x	5/8
	031-0075		x	3/4
	031-0087		x	7/8
	031-0100		x	1
	031-0125		x	1 1/4
	031-0150		x	1 1/2
	031-0175		x	1 3/4
	031-0200		x	2
	031-0225		x	2 1/4
	031-0250		x	2 1/2
	031-0275		x	2 3/4
	031-0300		x	3
	031-0325		x	3 1/4
	031-0350		x	3 1/2
	031-0375		x	3 3/4
	031-0400		x	4
	031-0450		x	4 1/2
	031-0500		x	5
	031-0550		x	5 1/2
	031-0600		x	6
CSG5F	037-0050	3/8 - 24	x	1/2
	037-0062		x	5/8
	037-0075		x	3/4
	037-0087		x	7/8
	037-0100		x	1
	037-0125		x	1 1/4
	037-0150		x	1 1/2
	037-0175		x	1 3/4
	037-0200		x	2
	037-0225		x	2 1/4
	037-0250		x	2 1/2

CSG5F	037-0275	3/8 - 24	x	2 3/4
	037-0300		x	3
	037-0325		x	3 1/4
	037-0350		x	3 1/2
	037-0375		x	3 3/4
	037-0400		x	4
	037-0450		x	4 1/2
	037-0500		x	5
	037-0550		x	5 1/2
	037-0600		x	6
CSG5F	043-0075	7/16	x	3/4
	043-0087		x	7/8
	043-0100		x	1
	043-0125		x	1 1/4
	043-0150		x	1 1/2
	032-0175		x	1 3/4
	043-0200		x	2
	043-0225		x	2 1/4
	043-0250		x	2 1/2
	043-0275		x	2 3/4
	043-0300		x	3
	043-0325		x	3 1/4
	043-0350		x	3 1/2
	043-0400		x	4
CSG5F	050-0075	1/2 - 20	x	3/4
	050-0087		x	7/8
	050-0100		x	1
	050-0125		x	1 1/4
	050-0150		x	1 1/2
	050-0175		x	1 3/4
	050-0200		x	2
	050-0225		x	2 1/4
	050-0250		x	2 1/2
	050-0275		x	2 3/4
	050-0300		x	3
	050-0325		x	3 1/4
	050-0350		x	3 1/2
	050-0375		x	3 3/4
	050-0400		x	4
CSG5F	050-0450		x	4 1/2
	050-0500		x	5
	050-0550		x	5 1/2
	050-0600		x	6
CSG5F	056-0100	9/16 - 18	x	1
	056-0125		x	1 1/4
	056-0150		x	1 1/2
	056-0175		x	1 3/4
	056-0200		x	2
	056-0250		x	2 1/2
	056-0300		x	3
	056-0350		x	3 1/2
	056-0400		x	4
	062-0100	5/8 - 18	x	1
	062-0125		x	1 1/4
	062-0150		x	1 1/2
	062-0175		x	1 3/4
	062-0200		x	2

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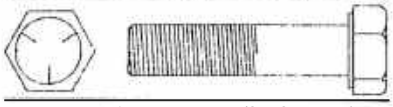
CAP SCREWS (continued)

GRADE 5—NF—HEX HEAD—MFG HEAD MARK

PLAIN & ZINC PLATED—CONFORMS TO ANSI/ASME B18.2.1 1981 (Foreign & Domestic)



	ITEM NUMBER	SIZE Diameter		SIZE Length
CSG5F	062-0225	5/8 - 18	x	2 1/4
	062-0250		x	2 1/2
	062-0275		x	2 3/4
	062-0300		x	3
	062-0325		x	3 1/4
	062-0350		x	3 1/2
	062-0375		x	3 3/4
	062-0400		x	4
	062-0450		x	4 1/2
	062-0500		x	5
	062-0550		x	5 1/2
	062-0600		x	6
CSG5F	075-0125	3/4 - 16	x	1 1/4
	075-0150		x	1 1/2
	075-0175		x	1 3/4
	075-0200		x	2
	075-0225		x	2 1/4
	075-0250		x	2 1/2
	075-0275		x	2 3/4
	075-0300		x	3
	075-0325		x	3 1/4
	075-0350		x	3 1/2
	075-0375		x	3 3/4
	075-0400		x	4
	075-0450		x	4 1/2
	075-0500		x	5
	075-0550		x	5 1/2
	075-0600		x	6
CSG5F	075-0150	7/8 - 14	x	1 1/2
	087-0175		x	1 3/4
	087-0200		x	2
	087-0225		x	2 1/4
	087-0250		x	2 1/2
	087-0275		x	2 3/4
	087-0300		x	3
	087-0325		x	3 1/4
	087-0350		x	3 1/2
	087-0375		x	3 3/4
	087-0400		x	4
	087-0450		x	4 1/2
	087-0500		x	5
	087-0550		x	5 1/2
	087-0600		x	6
CSG5F	100-0200	1 - 14	x	2
	100-0225		x	2 1/4
	100-0250		x	2 1/2
	100-0275		x	2 3/4
	100-0300		x	3
	100-0325		x	3 1/4

CAP SCREWS

GRADE 5—NF—HEX HEAD—MFG HEAD MARK

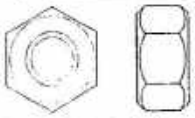
PLAIN & ZINC PLATED—CONFORMS TO ANSI/ASME B18.2.1 1981 (Foreign & Domestic)

CSG5F	100-0350	1 - 14	x	3 1/2
	100-0375		x	3 3/4
	100-0400		x	4
	100-0450		x	4 1/2
	100-0500		x	5
	100-0550		x	5 1/2
	100-0600		x	6

FINISHED HEX NUTS

NC

PLAIN & ZINC



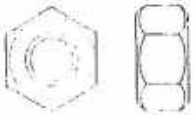
	ITEM NUMBER	SIZE Diameter
NFHX	025	1/4 - 20
	031	5/16 - 18
	037	3/8 - 16
	043	7/16 - 14
	050	1/2 - 13
	056	9/16 - 12
	062	5/8 - 11
	075	3/4 - 10
	087	7/8 - 9
	100	1 - 8
	112	1 1/8 - 7
	125	1 1/4 - 7
	137	1 3/8 - 6
	150	1 1/2 - 6
	175	1 3/4 - 5
	200	2 - 4 1/2
	225	2 1/4 - 4 1/2
	250	2 1/2 - 4
	275	2 3/4 - 4
	300	3 - 4

CALL FOR STAINLESS

FINISHED HEX NUTS

NF

PLAIN & ZINC



	ITEM NUMBER	SIZE Diameter
NFHXF	025	1/4 - 28
	031	5/16 - 24
	037	3/8 - 24
	043	7/16 - 20
	050	1/2 - 20
	056	9/16 - 18
	062	5/8 - 18
	075	3/4 - 16
	087	7/8 - 14
	100	1 - 14
	112	1 1/8 - 12
	125	1 1/4 - 12
	137	1 3/8 - 12
	150	1 1/2 - 12
	175	1 3/4 - 12
	200	2 - 12
	225	2 1/4 - 12
	250	2 1/2 - 12
	275	2 3/4 - 12
	300	3 - 12

FINISHED HEX NUTS

SLOTTED—NC

PLAIN

	ITEM NUMBER	SIZE Diameter
NFSL	050	1/2 - 13
	062	5/8 - 18
	075	3/4 - 10
	087	7/8 - 9
	100	1 - 8
	112	1 1/8 - 7
	125	1 1/4 - 7
	150	1 1/2 - 6

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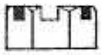
FINISHED HEX NUTS

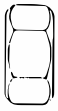
SLOTTED—NF
PLAIN



	ITEM NUMBER	SIZE Diameter
NFSLF	050	1/2 - 20
	062	5/8 - 18
	075	3/4 - 16
	087	7/8 - 14
	100	1 - 14
	112	1 1/8 - 12
	125	1 1/4 - 12
	150	1 1/2 - 12

FINISHED HEX NUTS

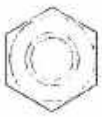
JAM—NC
PLAIN & ZINC

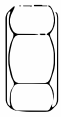


	ITEM NUMBER	SIZE Diameter
NFJA	025	1/4 - 20
	031	5/16 - 18
	037	3/8 - 16
	043	7/16 - 14
	050	1/2 - 13
	056	9/16 - 12
	062	5/8 - 11
	075	3/4 - 10
	087	7/8 - 9
	100	1 - 8
	112	1 1/8 - 7
	125	1 1/4 - 7
	137	1 3/8 - 6
	150	1 1/2 - 6

FINISHED HEX NUTS

JAM—NF
PLAIN & ZINC





	ITEM NUMBER	SIZE Diameter
NFJAF	025	1/4 - 28
	031	5/16 - 24
	037	3/8 - 24
	043	7/16 - 20
	050	1/2 - 20
	056	9/16 - 18
	062	5/8 - 18
	075	3/4 - 16
	087	7/8 - 14
	100	1 - 14
	112	1 1/8 - 12
	125	1 1/4 - 12
	137	1 3/8 - 12
	150	1 1/2 - 12

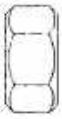
FINISHED HEX NUTS

GRADE 5—NC
PLAIN & ZINC—CONFORMS TO SAE J-995
ANSI/ASME B18.2.2 1986
(Foreign & Domestic)

	ITEM NUMBER	SIZE Diameter
NFG5	025	1/4 - 20
	031	5/16 - 18
	037	3/8 - 16
	043	7/16 - 14
	050	1/2 - 13
	062	5/8 - 11
	075	3/4 - 10
	087	7/8 - 9
	100	1 - 8

FINISHED HEX NUTS

GRADE 5—NF
PLAIN & ZINC—CONFORMS TO SAE J-995
ANSI/ASME B18.2.2 1986 (Foreign & Domestic)



	ITEM NUMBER	SIZE Diameter
NFG5F	025	1/4 - 28
	031	5/16 - 24
	037	3/8 - 24
	050	1/2 - 20
	062	5/8 - 18
	075	3/4 - 16
	087	7/8 - 14

HEX COUPLING NUTS

ZINC

	ITEM NUMBER	SIZE Diameter
NCOU	025	1/4 - 20
	031	5/16 - 18
	037	3/8 - 16
	050	1/2 - 13
	062	5/8 - 11
	075	3/4 - 10

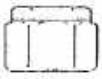
ACORN CAP NUTS

TWO PIECE CONSTRUCTION—
CLOSED END NICKEL

	ITEM NUMBER	SIZE Diameter
NACO	.06	6 - 32
	.08	8 - 32
	.10	10 - 24
	F10	10 - 32
	025	1/4 - 20
	031	5/16 - 18
	037	3/8 - 16
	050	1/2 - 13

LOCK NUTS

NYLON INSERT—NC
NE SERIES
ZINC—CONFORMS TO IFI 100



	ITEM NUMBER	SIZE Diameter
NLNY	.10	10 - 24
	025	1/4 - 20
	031	5/16 - 18
	037	3/8 - 16
	043	7/16 - 14
	050	1/2 - 13
	056	9/16 - 12
	062	5/8 - 11
	075	3/4 - 10
	087	7/8 - 9
	100	1 - 8
	112	1 1/8 - 7
	125	1 1/4 - 7
	150	1 1/2 - 6

ALL ABOVE IN STOCK IN STAINLESS STEEL

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SHEET METAL SCREWS

SLOTTED PAN HEAD—TYPE A
HARDENED & ZINC PLATED

(continued)

ITEM NUMBER		SIZE Diameter	Length
SSSP	.08-0125	8	x 1 1/4
	.08-0150		x 1 1/2
	.08-0175		x 1 3/4
	.08-0200		x 2
	.08-0250		x 2 1/2
	.08-0300		x 3
SSSP	.10-0037	10	x 3/8
	.10-0050		x 1/2
	.10-0062		x 5/8
	.10-0075		x 3/4
	.10-0100		x 1
	.10-0125		x 1 1/4
	.10-0150		x 1 1/2
	.10-0175		x 1 3/4
	.10-0200		x 2
	.10-0250		x 2 1/2
	.10-0300		x 3
SSSP	.12-0050	12	x 1/2
	.12-0062		x 5/8
	.12-0075		x 3/4
	.12-0100		x 1
	.12-0125		x 1 1/4
	.12-0150		x 1 1/2
	.12-0175		x 1 3/4
	.12-0200		x 2
	.12-0250		x 2 1/2
	.12-0300		x 3
SSSP	.14-0050	14	x 1/2
	.14-0062		x 5/8
	.14-0075		x 3/4
	.14-0100		x 1
	.14-0125		x 1 1/4
	.14-0150		x 1 1/2
	.14-0175		x 1 3/4
	.14-0200		x 2
	.14-0250		x 2 1/2
	.14-0300		x 3

FSI STOCKS ALL OF THE ABOVE IN STAINLESS STEEL

SHEET METAL SCREWS

PHILLIPS PAN HEAD—TYPE A
HARDENED & ZINC PLATED

ITEM NUMBER		SIZE Diameter	Length
SSPP	.04-0050	4	x 1/2
SSPP	.06-0025	6	x 1/4
	.06-0037		x 3/8
	.06-0050		x 1/2
	.06-0062		x 5/8
	.06-0075		x 3/4
	.06-0100		x 1
	.06-0125		x 1 1/4
	.06-0150		x 1 1/2
SSPP	.08-0037	8	x 3/8
	.08-0050		x 1/2
	.08-0062		x 5/8
	.08-0075		x 3/4
	.08-0100		x 1
	.08-0125		x 1 1/4
	.08-0150		x 1 1/2
	.08-0175		x 1 3/4
	.08-0200		x 2
	.08-0250		x 2 1/2
SSPP	.10-0037	10	x 3/8
	.10-0050		x 1/2
	.10-0062		x 5/8
	.10-0075		x 3/4
	.10-0100		x 1
	.10-0125		x 1 1/4
	.10-0150		x 1 1/2
	.10-0175		x 1 3/4
	.10-0200		x 2
	.10-0250		x 2 1/2
	.10-0300		x 3
SSPP	.12-0050	12	x 1/2
	.12-0075		x 3/4
	.12-0100		x 1
	.12-0125		x 1 1/4
	.12-0150		x 1 1/2
	.12-0175		x 1 3/4
	.12-0200		x 2
	.12-0250		x 2 1/2
	.12-0300		x 3
SSPP	.14-0050	14	x 1/2
	.14-0075		x 3/4
	.14-0100		x 1
	.14-0125		x 1 1/4
	.14-0150		x 1 1/2
	.14-0175		x 1 3/4
	.14-0200		x 2
	.14-0250		x 2 1/2
	.14-0300		x 3

SHEET METAL SCREWS

PHILLIPS FLAT HEAD—TYPE A
HARDENED & ZINC PLATED

ITEM NUMBER		SIZE Diameter	Length
SSPF	.04-0050	4	x 1/2
	.04-0062		x 5/8
	.04-0075		x 3/4
SSPF	.06-0037	6	x 3/8
	.06-0050		x 1/2
	.06-0062		x 5/8
	.06-0075		x 3/4
	.06-0100		x 1
	.06-0125		x 1 1/4
	.06-0150		x 1 1/2
SSPF	.08-0037	8	x 3/8
	.08-0050		x 1/2
	.08-0062		x 5/8
	.08-0075		x 3/4
	.08-0100		x 1
	.08-0125		x 1 1/4
	.08-0150		x 1 1/2
	.08-0175		x 1 3/4
	.08-0200		x 2
	.08-0250		x 2 1/2
SSPF	.10-0037	10	x 3/8
	.10-0050		x 1/2
	.10-0062		x 5/8
	.10-0075		x 3/4
	.10-0100		x 1
	.10-0125		x 1 1/4
	.10-0150		x 1 1/2
	.10-0175		x 1 3/4
	.10-0200		x 2
	.10-0225		x 2 1/4
	.10-0250		x 2 1/2
	.10-0300		x 3
SSPF	.12-0075	12	x 3/4
	.12-0100		x 1
	.12-0125		x 1 1/4
	.12-0150		x 1 1/2
	.12-0175		x 1 3/4
	.12-0200		x 2
	.12-0250		x 2 1/2
	.12-0300		x 3
SSPF	.14-0050	14	x 1/2
	.14-0075		x 3/4
	.14-0100		x 1
	.14-0150		x 1 1/2
	.14-0200		x 2
	.14-0250		x 2 1/2
	.14-0300		x 3

Communication is the key to FSI's success

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Fasteners

MACHINE SCREWS

COMBINATION PHILLIPS/SLOTTED
PAN HEAD—
TYPE A HARDENED & ZINC PLATED

	ITEM NUMBER	SIZE Diameter	SIZE Length
SMCR	.06-0075	6 -32	x 3/4
	.06-0100		x 1
	.06-0125		x 1 1/4
	.06-0150		x 1 1/2
	.06-0200		x 2
SMCR	.08-0050	8 - 32	x 1/2
	.08-0075		x 3/4
	.08-0100		x 1
	.08-0125		x 1 1/4
	.08-0150		x 1 1/2
	.08-0200		x 2
	.08-0250		x 2 1/2
	.08-0300		x 3
SMCR	.10-0075	10 -24	x 3/4
	.10-0100		x 1
	.10-0125		x 1 1/4
	.10-0150		x 1 1/2
	.10-0200		x 2
	.10-0300		x 3
SMCR	025-0037	1/4 - 20	x 3/8
	025-0050		x 1/2
	025-0075		x 3/4
	025-0100		x 1
	025-0125		x 1 1/4
	025-0150		x 1 1/2
	025-0200		x 2
	025-0250		x 2 1/2
	025-0300		x 3
	025-0400		x 4
SMCR	037-0075	3/8 - 16	x 3/4
	037-0100		x 1
	037-0125		x 1 1/4
	037-0150		x 1 1/2
	037-0200		x 2
	037-0300		x 3
	037-0400		x 4
SMCR	F10-0075	10 - 32	x 3/4
	F10-0100		x 1

ALL ABOVE AVAILABLE IN STAINLESS STEEL

MACHINE SCREWS

SLOTTED ROUND HEAD
ZINC PLATED

	ITEM NUMBER	SIZE Diameter	SIZE Length
SMSR	F10-0200	10 - 32	x 2
	F10-0225		x 2 1/4
	F10-0250		x 2 1/2
	F10-0275		x 2 3/4
	F10-0300		x 3
	F10-0350		x 3 1/2
	F10-0400		x 4
	F10-0450		x 4 1/2
SMSR	025-0037	1/4 - 20	x 3/8
	025-0050		x 1/2
	025-0062		x 5/8
	025-0075		x 3/4
	025-0087		x 7/8
	025-0100		x 1
	025-0112		x 1 1/8
	025-0125		x 1 1/4
	025-0137		x 1 3/8
	025-0150		x 1 1/2
	025-0162		x 1 5/8
	025-0175		x 1 3/4
	025-0200		x 2
	025-0225		x 2 1/4
	025-0250		x 2 1/2
	025-0275		x 2 3/4
	025-0300		x 3
	025-0350		x 3 1/2
	025-0400		x 4
	025-0450		x 4 1/2
	025-0500		x 5
	025-0550		x 5 1/2
	025-0600		x 6
SMSR	031-0050	5/16 - 18	x 1/2
	031-0062		x 5/8
	031-0075		x 3/4
	031-0087		x 7/8
	031-0100		x 1
	031-0112		x 1 1/8
	031-0125		x 1 1/4
	031-0137		x 1 3/8
	031-0150		x 1 1/2
	031-0175		x 1 3/4
	031-0200		x 2
	031-0225		x 2 1/4
	031-0250		x 2 1/2
	031-0275		x 2 3/4
	031-0300		x 3
	031-0350		x 3 1/2

MACHINE SCREWS

SLOTTED ROUND HEAD
ZINC PLATED

SMSR	031-0400	5/16 - 18	x 4
	031-0450		x 4 1/2
	031-0500		x 5
	031-0550		x 5 1/2
	031-0600		x 6
SMSR	037-0050	3/8 - 16	x 1/2
	037-0062		x 5/8
	037-0075		x 3/4
	037-0087		x 7/8
	037-0100		x 1
	037-0125		x 1 1/4
	037-0150		x 1 1/2
	037-0175		x 1 3/4
	037-0200		x 2
	037-0225		x 2 1/4
	037-0250		x 2 1/2
	037-0275		x 2 3/4
	037-0300		x 3
	037-0350		x 3 1/2
	037-0400		x 4
	037-0450		x 4 1/2
	037-0500		x 5
	037-0550		x 5 1/2
	037-0600		x 6

SHEET METAL SCREWS

SLOTTED PAN HEAD—TYPE A
HARDENED & ZINC PLATED

	ITEM NUMBER	SIZE Diameter	SIZE Length
SSSP	.04-0037	4	x 3/8
	.04-0050		x 1/2
	.04-0062		x 5/8
	.04-0075		x 3/4
	.04-0100		x 1
SSSP	.06-0037	6	x 3/8
	.06-0050		x 1/2
	.06-0062		x 5/8
	.06-0075		x 3/4
	.06-0100		x 1
	.06-0125		x 1 1/4
	.06-0150		x 1 1/2
SSSP	.07-0050	7	x 1/2
	.07-0062		x 5/8
	.07-0100		x 1
	.07-0150		x 1 1/2
SSSP	.08-0037	8	x 3/8
	.08-0050		x 1/2
	.08-0062		x 5/8
	.08-0075		x 3/4
	.08-0100		x 1

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Reynolds

Fasteners

SHEET METAL SCREWS
PHILLIPS TRUSS HEAD—TYPE A
HARDENED & ZINC PLATED

ITEM NUMBER		SIZE Diameter		Length
SSPT	.06-0037	6	x	3/8
	.06-0050		x	1/2
	.06-0062		x	5/8
	.06-0075		x	3/4
	.06-0100		x	1
SSPT	.08-0037	8	x	3/8
	.08-0050		x	1/2
	.08-0062		x	5/8
	.08-0075		x	3/4
	.08-0100		x	1
SSPT	.10-0037	10	x	3/8
	.10-0050		x	1/2
	.10-0062		x	5/8
	.10-0075		x	3/4
	.10-0100		x	1

SHEET METAL SCREWS
COMBINATION PHILLIPS/ SLOTTED PAN HEAD—TYPE A
HARDENED & ZINC PLATED

ITEM NUMBER		SIZE Diameter		Length
SSCP	.06-0037Q	6	x	3/8
	.06-0050Q		x	1/2
	.06-0062Q		x	5/8
	.06-0075Q		x	3/4
	.06-0100Q		x	1
	.06-0125Q		x	1 1/4
SSCP	.08-0037Q	8	x	3/8
	.08-0050Q		x	1/2
	.08-0062Q		x	5/8
	.08-0075Q		x	3/4
	.08-0100Q		x	1
	.08-0125Q		x	1 1/4
	.08-0150Q		x	1 1/2
	.08-0200Q		x	2
	.08-0250Q		x	2 1/2
SSCP	.10-0037Q	10	x	3/8
	.10-0050Q		x	1/2
	.10-0062Q		x	5/8
	.10-0075Q		x	3/4
	.10-0100Q		x	1
	.10-0125Q		x	1 1/4
	.10-0150Q		x	1 1/2
	.10-0175Q		x	1 3/4
	.10-0200Q		x	2
	.10-0250Q		x	2 1/2
	.10-0300Q		x	3

SHEET METAL SCREWS
COMBINATION PHILLIPS/ SLOTTED PAN HEAD—TYPE A
HARDENED & ZINC PLATED

SSCP	.12-0050Q	12	x	1/2
	.12-0075Q		x	3/4
	.12-0100Q		x	1
	.12-0125Q		x	1 1/4
	.12-0150Q		x	1 1/2
	.12-0200Q		x	2
	.12-0250Q		x	2 1/2
	.12-0300Q		x	3
SSCP	.14-0050Q	14	x	1/2
	.14-0075Q		x	3/4
	.14-0100Q		x	1
	.14-0125Q		x	1 1/4
	.14-0150Q		x	1 1/2
	.14-0200Q		x	2
	.14-0250Q		x	2 1/2
	.14-0300Q		x	3

WOOD SCREWS
PHILLIPS FLAT HEAD
ZINC PLATED

ITEM NUMBER		SIZE Diameter		Length
SWPF	.04-0050	4	x	1/2
	.04-0062		x	5/8
	.04-0075		x	3/4
SWPF	.05-0050	5	x	1/2
	.05-0062		x	5/8
	.05-0075		x	3/4
	.05-0100		x	1
SWPF	.06-0050	6	x	1/2
	.06-0062		x	5/8
	.06-0075		x	3/4
	.06-0100		x	1
	.06-0125		x	1 1/4
	.06-0150		x	1 1/2
	.06-0175		x	1 3/4
	.06-0200		x	2
SWPF	.07-0075	7	x	3/4
	.07-0100		x	1
	.07-0125		x	1 1/4
	.07-0150		x	1 1/2
SWPF	.08-0050	8	x	1/2
	.08-0062		x	5/8
	.08-0075		x	3/4
	.08-0100		x	1
	.08-0125		x	1 1/4
	.08-0150		x	1 1/2
	.08-0175		x	1 3/4
	.08-0200		x	2
	.08-0225		x	2 1/4
	.08-0250		x	2 1/2

WOOD SCREWS
PHILLIPS FLAT HEAD
ZINC PLATED

	.08-0300	8	x	3
SWPF	.09-0075	9	x	3/4
	.09-0100		x	1
	.09-0125		x	1 1/4
	.09-0150		x	1 1/2
	.09-0175		x	1 3/4
	.09-0200		x	2
	.09-0250		x	2 1/2
SWPF	.10-0075	10	x	3/4
	.10-0100		x	1
	.10-0125		x	1 1/4
	.10-0150		x	1 1/2
	.10-0175		x	1 3/4
	.10-0200		x	2
	.10-0225		x	2 1/4
	.10-0250		x	2 1/2
	.10-0275		x	2 3/4
SWPF	.10-0300		x	3
	.10-0350		x	3 1/2
	.10-0400		x	4
SWPF	.12-0100	12	x	1
	.12-0125		x	1 1/4
	.12-0150		x	1 1/2
	.12-0175		x	1 3/4
	.12-0200		x	2
	.12-0225		x	2 1/4
	.12-0250		x	2 1/2
	.12-0300		x	3
	.12-0350		x	3 1/2
	.12-0400		x	4
SWPF	.14-0100	14	x	1
	.14-0125		x	1 1/4
	.14-0150		x	1 1/2
	.14-0175		x	1 3/4
	.14-0200		x	2
	.14-0225		x	2 1/4
	.14-0250		x	2 1/2
	.14-0300		x	3
	.14-0350		x	3 1/2
	.14-0400		x	4

WOOD SCREWS
SLOTTED FLAT HEAD
ZINC PLATED

ITEM NUMBER		SIZE Diameter		Length
SWSF	.04-0050	4	x	1/2
	.04-0062		x	5/8
	.04-0075		x	3/4
	.04-0100		x	1
SWSF	.05-0050	5	x	1/2
	.05-0062		x	5/8

Same day color match - In house painting

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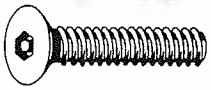
SOCKET Security Screws

FLAT HEAD/CAP SCREWS



18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
6-32	3/8	6.63238FS	1/8"
	1/2	6.63212FS	
	3/4	6.63234FS	
	1	6.6321FS	
8-32	3/8	6.83238FS	1/8"
	1/2	6.83212FS	
	3/4	6.83234FS	
	1	6.8321FS	
10-32	1/2	6.10312FS	5/32"
	3/4	6.10334FS	
	1	6.1031FS	
	1-1/2	6.103112FS	1/8"
10-24	3/8	6.10238FS	5/32"
	1/2	6.10212FS	
	3/4	6.10234FS	
	1	6.1021FS	
	1-1/2	6.102112FS	1/8"
12-24	1/2 UC	6.12212UFS	5/32"
1/4-20	1/2	6.14212FS	5/32"
	3/4	6.14234FS	
	1	6.1421FS	
	1-1/4	6.142114FS	
	1-1/2	6.142112FS	
	2	6.1422FS	
5/16-18	1/2	6.51612FS	3/16"
	3/4	6.51634FS	
	1	6.5161FS	
	1-1/4	6.516114FS	
	1-1/2	6.516112FS	
	2	6.5162FS	
3/8-16	1/2	6.38612FS	7/32"
	3/4	6.38634FS	
	1	6.3861FS	
	1-1/4	6.386114FS	
	1-1/2	6.386112FS	
	2	6.3862FS	

BUTTON HEAD/ SHEET METAL SCREWS

TYPE AB, 18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
#8	1/2	6.8AB12BS	1/8"
	3/4	6.8AB34BS	
	1	6.8AB1BS	
#10	1/2	6.10AB12BS	5/32"
	3/4	6.10AB34BS	
	1	6.10AB1BS	

TORX® Security Screws

BUTTON HEAD/ MACHINE SCREWS

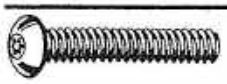
18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
4-40	1/4	4.44014BS	T-8
	1/2	4.44012BS	
	3/4	4.44034BS	
6-32	1/4	4.63214BS	T-10
	3/8	4.63238BS	
	1/2	4.63212BS	
	3/4	4.63234BS	
	1	4.6321BS	
8-32	1/4	4.83214BS	T-15
	3/8	4.83238BS	
	1/2	4.83212BS	
	3/4	4.83234BS	
	1	4.8321BS	
10-32	1/2	4.10312BS	T-25
	3/4	4.10334BS	
	1	4.1031BS	
	1-1/4	4.103114BS	
10-24	1/2	4.10212BS	T-25
	3/4	4.10234BS	
	1	4.1021BS	
	1-1/4	4.102114BS	

Note: "UC" Denotes Undercut Head

TORX® Security Screws

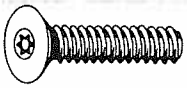
BUTTON HEAD/ MACHINE SCREWS



18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
1/4-20	1/2	4.14212BS	T-27
	3/4	4.14234BS	
	1	4.1421BS	
	1-1/4	4.142114BS	
	1-1/2	4.142112BS	
5/16-18	3/4	4.51634BS	T-40
	1	4.5161BS	
	1-1/2	4.516112BS	

FLAT HEAD/MACHINE SCREWS



18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
4-40	1/4	4.44014FS	T-8
	3/8	4.44038FS	
	1/2	4.44012FS	
6-32	3/8	4.63238FS	T-10
	1/2	4.63212FS	
	3/4	4.63234FS	
	1	4.6321FS	
8-32	3/8	4.83238FS	T-15
	1/2	4.83212FS	
	3/4	4.83234FS	
	1	4.8321FS	
10-32	1/2	4.10312FS	T-20
	3/4	4.10334FS	
	1	4.1031FS	
	1-1/4	4.103114FS	
10-24	1/2	4.10212FS	T-20
	3/4	4.10234FS	
	1	4.1021FS	
	1-1/4	4.102114FS	
12-24	1/2 UC	4.12212UFS	T-20
1/4-20	1/2	4.14212FS	T-27
	3/4	4.14234FS	
	1	4.1421FS	
	1-1/4	4.142114FS	
	1-1/2	4.142112FS	

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TORX® Security Screws

BUTTON HEAD/ SHEET METAL SCREWS

TYPE A, 18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
#6	1/2	4.6A12BS	T-10
	3/4	4.6A34BS	
	1	4.6A1BS	
#8	1/2	4.8A12BS	T-15
	3/4	4.8A34BS	
	1	4.8A1BS	
	1-1/4	4.8A114BS	
	1-1/2	4.8A112BS	
#10	1/2	4.10A12BS	T-25
	3/4	4.10A34BS	
	1	4.10A1BS	
	1-1/4	4.10A114BS	
	1-1/2	4.10A112BS	

PAN HEAD/SELF DRILLING SHEET METAL SCREWS

TYPE AB, 410 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
#8	1/2	4.8ABK12PS	T-20
	3/4	4.8ABK34PS	
	1	4.8ABK1PS	
	1-1/4	4.8ABK114PS	
#10	1/2	4.10ABK12PS	T-25
	3/4	4.10ABK34PS	
	1	4.10ABK1PS	
	1-1/4	4.10ABK114PS	
	1-1/2	4.10ABK112PS	

TOOLS and KITS

TORX® TAMPERPROOF

BITS ONLY

SIZE	PART NO.
T-7 Bit (1/4" Hex)	4B.T7
T-8 Bit (1/4" Hex)	4B.T8
T-9 Bit (1/4" Hex)	4B.T9
T-10 Bit (1/4" Hex)	4B.T10
T-15 Bit (1/4" Hex)	4B.T15
T-20 Bit (1/4" Hex)	4B.T20
T-25 Bit (1/4" Hex)	4B.T25
T-27 Bit (1/4" Hex)	4B.T27
T-30 Bit (1/4" Hex)	4B.T30
T-40 Bit (1/4" Hex)	4B.T40
T-45 Bit (5/16" Hex)	4B.T45
T-50 Bit (5/16" Hex)	4B.T50

TORX® TAMPERPROOF BIT
Indicate size when ordering

TORX® Security Screws

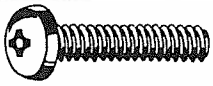
FLAT HEAD/ SHEET METAL SCREWS

TYPE A, 18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
#6	3/4	4.6A34FS	T-10
	1	4.6A1FS	
#8	3/4	4.8A34FS	T-15
	1	4.8A1FS	
	1-1/4	4.8A114FS	
#10	3/4	4.10A34FS	T-20
	1	4.10A1FS	
	1-1/4	4.10A114FS	
	1-1/2	4.10A112FS	

PHILLIPS® Security Screws

PAN HEAD/MACHINE SCREWS



18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
6-32	1/4	2.63214PS	P2
	3/8	2.63238PS	
	1/2	2.63212PS	
	5/8	2.63258PS	
	3/4	2.63234PS	
	1	2.6321PS	
	1-1/4	2.632114PS	
	1-1/2	2.632112PS	
	2	2.6322PS	
8-32	3/8	2.83238PS	P2
	1/2	2.83212PS	
	5/8	2.83258PS	
	3/4	2.83234PS	
	1	2.8321PS	
	1-1/4	2.832114PS	
	1-1/2	2.832112PS	
	2	2.8322PS	
	2-1/2	2.832212PS	
	3	2.8323PS	

PHILLIPS® Security Screws

PAN HEAD/MACHINE SCREWS

18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
10-32	1/4	2.10314PS	P2
	3/8	2.10338PS	
	1/2	2.10312PS	
	5/8	2.10358PS	
	3/4	2.10334PS	
	1	2.1031PS	
	1-1/4	2.103114PS	
	1-1/2	2.103112PS	
	2	2.1032PS	
	2-1/2	2.103212PS	
10-24	3/8	2.10238PS	P2
	1/2	2.10212PS	
	3/4	2.10234PS	
	1	2.1021PS	
	1-1/4	2.102114PS	
	1-1/2	2.102112PS	
	2	2.1022PS	
	2-1/2	2.102212PS	
	3	2.1023PS	
12-24	1/2	2.12212PS	P3
	3/4	2.12234PS	
	1	2.1221PS	
	1-1/2	2.122112PS	
1/4-20	1/2	2.14212PS	P3
	3/4	2.14234PS	
	1	2.1421PS	
	1-1/4	2.142114PS	
	1-1/2	2.142112PS	
	2	2.1422PS	
	2-1/2	2.142212PS	
	3	2.1423PS	
	3-1/2	2.142312PS	

TOOLS and KITS

PHILLIPS PIN HEAD

BITS ONLY

SIZE	PART NO.
#2 Bit Only (1/4" Hex)	2B.2
#3 Bit Only (1/4" Hex)	2B.3

PHILLIPS PIN-HEAD BITS
Indicate size when ordering

We put the *fast* in fasteners

640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382

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PHILLIPS® Security Screws

FLAT HEAD/MACHINE SCREWS

18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
6-32	1/4	2.63214FS	P2
	3/8	2.63238FS	
	1/2	2.63212FS	
	3/4	2.63234FS	
	1	2.6321FS	
	1-1/4	2.632114FS	
	1-1/2	2.632112FS	
	2	2.6322FS	
8-32	3/8	2.83238FS	P2
	1/2	2.83212FS	
	3/4	2.83234FS	
	1	2.8321FS	
	1-1/4	2.832114FS	
	1-1/2	2.832112FS	
	2	2.8322FS	
	2-1/2	2.832212FS	
10-32	3/8	2.10338FS	P2
	1/2	2.10312FS	
	3/4	2.10334FS	
	1	2.1031FS	
	1-1/4	2.103114FS	
	1-1/2	2.103112FS	
	2	2.1032FS	
	2-1/2	2.103212FS	
10-24	3/8	2.10238FS	P2
	1/2	2.10212FS	
	3/4	2.10234FS	
	1	2.1021FS	
	1-1/4	2.102114FS	
	1-1/2	2.102112FS	
	2	2.1022FS	
	2-1/2	2.102212FS	
	3	2.1023FS	
12-24	1/2	2.12212FS	P3
	3/4	2.12234FS	
	1	2.1221FS	
	1-1/4	2.122114FS	
	1-1/2	2.122112FS	

PHILLIPS® Security Screws

FLAT HEAD/MACHINE SCREWS

DIAMETER	LENGTH	PART NO.	
1/4-20	1/2	2.14212FS	P3
	3/4	2.14234FS	
	1	2.1421FS	
	1-1/4	2.142114FS	
	1-1/2	2.142112FS	
	2	2.1422FS	
	2-1/2	2.142212FS	
	3	2.1423FS	

PHILLIPS® Security Screws

PAN HEAD/ SHEET METAL SCREWS

TYPE A, 18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
#6	1/2	2.6A12PS	P2
	5/8	2.6A58PS	
	3/4	2.6A34PS	
	1	2.6A1PS	
	1-1/4	2.6A114PS	
	1-1/2	2.6A112PS	
	2	2.6A2PS	
#8	3/8	2.8A38PS	P2
	1/2	2.8A12PS	
	3/4	2.8A34PS	
	1	2.8A1PS	
	1-1/4	2.8A114PS	
	1-1/2	2.8A112PS	
	2	2.8A2PS	
	2-1/2	2.8A212PS	
	3	2.8A3PS	
#10	1/2	2.10A12PS	P2
	3/4	2.10A34PS	
	1	2.10A1PS	
	1-1/4	2.10A114PS	
	1-1/2	2.10A112PS	
	2	2.10A2PS	
	2-1/2	2.10A212PS	
	3	2.10A3PS	
	3-1/2	2.10A312PS	

PHILLIPS® Security Screws

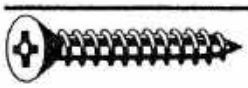
PAN HEAD/ SHEET METAL SCREWS

TYPE A, 18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
#12	1/2	2.12A12PS	P3
	3/4	2.12A34PS	
	1	2.12A1PS	
	1-1/4	2.12A114PS	
	1-1/2	2.12A112PS	
	2	2.12A2PS	
	2-1/2	2.12A212PS	
	3	2.12A3PS	
#14	1/2	2.14A12PS	P3
	3/4	2.14A34PS	
	1	2.14A1PS	
	1-1/4	2.14A114PS	
	1-1/2	2.14A112PS	
	2	2.14A2PS	
	2-1/2	2.14A212PS	
	3	2.14A3PS	

PHILLIPS® Security Screws

FLAT HEAD/ SHEET METAL SCREWS



TYPE A, 18-8 STAINLESS STEEL

DIAMETER	LENGTH	PART NO.	MATCHING DRIVER SIZE
#6	1/2	2.6A12FS	P2
	3/4	2.6A34FS	
	1	2.6A1FS	
	1-1/4	2.6A114FS	
	1-1/2	2.6A112FS	
	2	2.6A2FS	
#8	1/2	2.8A12FS	P2
	3/4	2.8 34FS	
	1	2.8A1FS	
	1-1/4	2.8A114FS	
	1-1/2	2.8A112FS	
	2	2.8A2FS	
	2-1/2	2.8A212FS	
	3	2.8A3FS	
#10	1/2	2.10A12FS	P2
	3/4	2.10A34FS	
	1	2.10A1FS	
	1-1/4	2.10A114FS	
	1-1/2	2.10A112FS	
	2	2.10A2FS	
	2-1/2	2.10A212FS	
	3	2.10A3FS	
#12	1/2	2.12A12FS	P3
	3/4	2.12A34FS	
	1	2.12A1FS	
	1-1/4	2.12A114FS	
	1-1/2	2.12A112FS	
	2	2.12A2FS	
	2-1/2	2.12A212FS	
	3	2.12A3FS	
#14	1/2	2.14A12FS	P3
	3/4	2.14A34FS	
	1	2.14A1FS	
	1-1/4	2.14A114FS	
	1-1/2	2.14A112FS	
	2	2.14A2FS	
	2-1/2	2.14A212FS	
	3	2.14A3FS	

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DRYWALL SCREWS

PHILLIPS BUGLE HEAD - *FINE THREAD*

PART NUMBER	SIZE	CARTON QUANTITY	CARTON WEIGHT	DRIVE SIZE	APPLICATION
DWS-06034	# 6 x 3/4"	10 M	29 lbs.	# 2 Phillips	Original and primary application of D/W to 20 - 25 gauge metal studs. Also known as *"all-purpose"* or *"many purpose"* screws.
DWS-06100	# 6 x 1"	10 M	32 lbs.	# 2 Phillips	
DWS-06118	# 6 x 1-1/8"	10 M	35 lbs.	# 2 Phillips	
DWS-06114	# 6 x 1-1/4"	8 M	31 lbs.	# 2 Phillips	
DWS-06158	# 6 x 1-5/8"	5 M	25 lbs.	# 2 Phillips	
DWS-06200	# 6 x 2"	3.5 M	20 lbs.	# 2 Phillips	
DWS-06214	# 6 x 2-1/4"	3 M	22 lbs.	# 2 Phillips	
DWS-08212	# 8 x 2-1/2"	2.5 M	21 lbs.	# 2 Phillips	
DWS-08300	# 8 x 3"	2 M	24 lbs.	# 2 Phillips	
DWS-10312	# 10 x 3-1/2"	1 M	23 lbs.	# 2 Phillips	Extra-Length allows user to attach D/W to 20 - 25 gauge metal stud - used in "scab over" applications.
DWS-10334	# 10 x 3-3/4"	1 M	23 lbs.	# 2 Phillips	
DWS-10400	# 10 x 4"	1 M	24 lbs.	# 2 Phillips	
DWS-10412	# 10 x 4-1/2"	1 M	25 lbs.	# 2 Phillips	
DWS-10500	# 10 x 5"	1 M	27 lbs.	# 2 Phillips	
DWS-10600	# 10 x 6"	1 M	31 lbs.	# 2 Phillips	

PHILLIPS BUGLE HEAD - *COARSE THREAD*

PART NUMBER	SIZE	CARTON QUANTITY	CARTON WEIGHT	DRIVE SIZE	APPLICATION
DWC-06100	# 6 x 1"	10 M	32 lbs.	# 2 Phillips	Original and primary application of D/W to wood studs. Also used in many interior wood and fixture fastening applications.
DWC-06118	# 6 x 1-1/8"	10 M	35 lbs.	# 2 Phillips	
DWC-06114	# 6 x 1-1/4"	8 M	31 lbs.	# 2 Phillips	
DWC-06112	# 6 x 1-1/2"	6 M	24 lbs.	# 2 Phillips	
DWC-06158	# 6 x 1-5/8"	5 M	25 lbs.	# 2 Phillips	
DWC-06134	# 6 x 1-3/4"	4 M	21 lbs.	# 2 Phillips	
DWC-06200	# 6 x 2"	3.5 M	20 lbs.	# 2 Phillips	
DWC-06214	# 6 x 2-1/4"	3 M	22 lbs.	# 2 Phillips	
DWC-08212	# 8 x 2-1/2"	2.5 M	21 lbs.	# 2 Phillips	
DWC-08300	# 8 x 3"	2 M	24 lbs.	# 2 Phillips	
DWC-10312	# 10 x 3-1/2"	1 M	23 lbs.	# 2 Phillips	
DWC-10334	# 10 x 3-3/4"	1 M	23 lbs.	# 2 Phillips	
DWC-10400	# 10 x 4"	1 M	23 lbs.	# 2 Phillips	
DWC-10412	# 10 x 4-1/2"	1 M	24 lbs.	# 2 Phillips	
DWC-10500	# 10 x 5"	1 M	27 lbs.	# 2 Phillips	
DWC-10600	# 10 x 6"	1 M	31 lbs.	# 2 Phillips	

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WOOD FASTENING SCREWS

PHILLIPS BUGLE HEAD - *LONG LIFE COATING*

PART NUMBER	SIZE	CARTON QUANTITY	CARTON WEIGHT	DRIVE SIZE	APPLICATION
WGD-06100	# 6 x 1"	10 M	32 lbs.	# 2 Phillips	Any exterior fastening, including: decks, fences, shade structures. Recommended for use in treated yellow pine.
WGD-06118	# 6 x 1-1/8"	10 M	35 lbs.	# 2 Phillips	
WGD-06114	# 6 x 1-1/4"	8 M	31 lbs.	# 2 Phillips	
WGD-06158	# 6 x 1-5/8"	5 M	25 lbs.	# 2 Phillips	
WGD-06200	# 6 x 2"	3.5 M	23 lbs.	# 2 Phillips	
WGD-06214	# 6 x 2-1/4"	3 M	22 lbs.	# 2 Phillips	
WGD-08212	# 8 x 2-1/2"	2.5 M	24 lbs.	# 2 Phillips	
WGD-08300	# 8 x 3"	2 M	25 lbs.	# 2 Phillips	
WGD-10312	# 10 x 3-1/2"	1 M	23 lbs.	# 2 Phillips	
WGD-10400	# 10 x 4"	1 M	25 lbs.	# 2 Phillips	
WGD-10412	# 10 x 4-1/2"	1 M	26 lbs.	# 2 Phillips	
WGD-10500	# 10 x 5"	1 M	28 lbs.	# 2 Phillips	
WGD-10600	# 10 x 6"	1 M	21 lbs.	# 2 Phillips	

HEX WASHER HEAD SLOTTED - *ZINC PLATED*

PART NUMBER	SIZE	CARTON QUANTITY	CARTON WEIGHT	DRIVE SIZE	APPLICATION
HHS-07012	# 7 x 1/2"	15 M	38 lbs.	1/4" Hex	For H.V.A.C. or other thin gauge metal fastener. Screws have a needle point for self piercing of sheetmetal in a range of .0209 to .0359.
HHS-08012	# 8 x 1/2"	10 M	31 lbs.	1/4" Hex	
HHS-08034	# 8 x 3/4"	10 M	38 lbs.	1/4" Hex	
HHS-08100	# 8 x 1"	8 M	38 lbs.	1/4" Hex	
HHS-08112	# 8 x 1-1/2"	5 M	32 lbs.	1/4" Hex	
HHS-08200	# 8 x 2"	3 M	26 lbs.	1/4" Hex	
HHS-10012	# 10 x 1/2"	8 M	33 lbs.	5/16" Hex	
HHS-10034	# 10 x 3/4"	6 M	32 lbs.	5/16" Hex	
HHS-10100	# 10 x 1"	5 M	33 lbs.	5/16" Hex	
HHS-10112	# 10 x 1-1/2"	3 M	27 lbs.	5/16" Hex	
HHS-10200	# 10 x 2"	2 M	23 lbs.	5/16" Hex	

SLOTTED HEX HEAD ZIP SCREWS IN STOCK PAINTED

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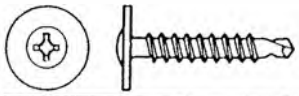
SELF DRILLING SCREWS

PHILLIPS BUGLE HEAD - *BLACK PHOSPHATE*

PART NUMBER	SIZE	CARTON QUANTITY	CARTON WEIGHT	DRIVE SIZE	APPLICATION
BDB-06100	# 6 x 1"	10 M	32 lbs.	# 2 Phillips	Recommended for the application of D/W or Gyp board to 12 -20 gauge metal studs. 2500 rpm is recommended maximum drive speed; can also be used in wood to metal fastening where wood is pre-drilled.
BDB-06118	# 6 x 1-1/8"	10 M	35 lbs.	# 2 Phillips	
BDB-06114	# 6 x 1-1/4"	8 M	31 lbs.	# 2 Phillips	
BDB-06158	# 6 x 1-5/8"	5 M	25 lbs.	# 2 Phillips	
BDB-06178	# 6 x 1-7/8"	4 M	22 lbs.	# 2 Phillips	
				# 2 Phillips	
BDB-08238	# 8 x 2-3/8"	3 M	24 lbs.		
BDB-08258	# 8 x 2-5/8"	2 M	20 lbs.	# 2 Phillips	
BDB-08300	# 8 x 3"	2 M	24 lbs.	# 2 Phillips	



PHILLIPS MODIFIED TRUSS HEAD

BLACK PHOSPHATE or ZINC-PLATED

MTD-08012	# 8 x 1/2"	10 M	37 lbs.	# 2 Phillips	For the application of metal lathe to heavy 12 - 20 gauge metal studs. Recommended drive speed is 2500 rpm.
MTD-08034	# 8 x 3/4"	10 M	48 lbs.	# 2 Phillips	
MTD-08100	# 8 x 1"	8 M	43 lbs.	# 2 Phillips	
MTD-08114	# 8 x 1-1/4"	6 M	39 lbs.	# 2 Phillips	
MTD-08158	# 8 x 1-5/8"	3 M	24 lbs.	# 2 Phillips	

PHILLIPS BUGLE HEAD - *ZINC PLATED*

PART NUMBER	SIZE	CARTON QUANTITY	CARTON WEIGHT	DRIVE SIZE	APPLICATION
BDZ-06100	# 6 x 1"	10 M	32 lbs.	# 2 Phillips	Recommended for application of D/W or Gyp board to 12 - 20 gauge metal studs; To be used when end-user requires additional corrosion resistance of zinc plating. Recommended maximum drive speed is 2500 rpm.
BDZ-06118	# 6 x 1-1/8"	10 M	35 lbs.	# 2 Phillips	
BDZ-06114	# 6 x 1-1/4"	8 M	31 lbs.	# 2 Phillips	
BDZ-06158	# 6 x 1-5/8"	5 M	25 lbs.	# 2 Phillips	
BDZ-06178	# 6 x 1-7/8"	4 M	22 lbs.	# 2 Phillips	
BDZ-08238	# 8 x 2-3/8"	3 M	24 lbs.	# 2 Phillips	
BDZ-08258	# 8 x 2-5/8"	2 M	20 lbs.	# 2 Phillips	
BDZ-08300	# 8 x 3"	2 M	24 lbs.	# 2 Phillips	

PHILLIPS PAN HEAD FRAMER - *BLACK PHOSPHATE*

PART NUMBER	SIZE	CARTON QUANTITY	CARTON WEIGHT	DRIVE SIZE	APPLICATION
FDB-07716	# 7 x 7/16"	15 M	40 lbs.	# 2 Phillips	For heavy 16 - 20 gauge metal stud. Recommended maximum 2500 rpm drive speed.

PHILLIPS PAN HEAD FRAMER - *ZINC PLATED*

PART NUMBER	SIZE	CARTON QUANTITY	CARTON WEIGHT	DRIVE SIZE	APPLICATION
FDZ-07716	# 7 x 7/16"	15 M	40 lbs.	# 2 Phillips	For heavy 16 - 20 gauge metal stud. Recommended maximum 2500 rpm drive speed.

FSI specializes in solving problems

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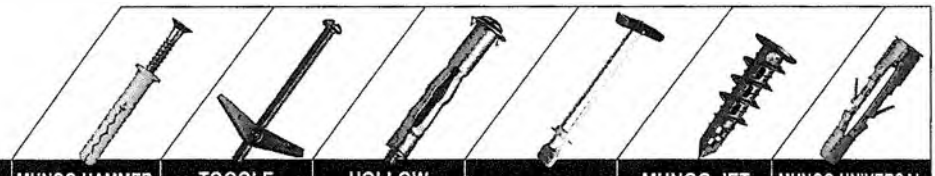
KINGPIN
U.S. ANCHOR CORP.

Anchor Selection Guide

ANCHOR TYPE	HAMMER DRIVE	ALUMINUM DRIVE	DRIVE PIN	RIBBED PLASTIC ANCHOR	SUPER PLASTIC ANCHOR	MUNGO NYLON PLUG (MN)
PRODUCT INFORMATION	A mushroom head anchor that is relatively tamperproof. Available with standard Zinc Plated Steel nail or Stainless Steel nail.	Aluminum body with 5/8" diameter mushroom head. Stainless Steel expander pin is available.	Hardened steel pin with a 3/8" diameter washer. Does not require pre-drilling.	For light duty fastening. Ribs provide extra holding power. Available with or without lip.	One of the finest plastic anchors available. Top and bottom of anchor expand to provide 4 expansion points.	Top quality nylon anchor that saves time in installation. The MN is an ideal alternative to many anchoring systems including lag shields and machine screws anchors.
FOR USE WITH	Requires no other fastener	Requires no other fastener	Requires no other fastener	Sheet Metal, Wood or Lag Screw	Sheet Metal, Wood or Lag Screw	Machine Screws, Sheet Metal Screws, Lag Screws, Woodscrews, Threaded Rod
FOR USE IN	Concrete, Brick, Block, Stone	Concrete, Masonry	Concrete, Brick, Block	Concrete, Brick, Masonry, Drywall	Concrete, Brick, Masonry, Drywall	Concrete, Brick, Stone
MADE OF	High grade Zinc Alloy and Steel	Aluminum and Stainless Steel	Steel	Plastic	Plastic	Virgin Nylon
SIZE RANGE	3/16" x 7/8" to 1/4" x 2"	1/4" x 1" to 1/4" x 1 1/2"	1/4" x 1/2" to 1/4" x 3"	#6-8 x 7/8" to #14-16 x 1 1/4"	#4-#6-#8 x 1" to #12-#14-#16 x 1 1/2"	5/32" x 3/4" to 3/4" x 3 9/16"



ANCHOR TYPE	MUNGO HAMMER SCREW (MNA)	TOGGLE BOLT	HOLLOW WALL	KAP TOGGLE	MUNGO JET PLUG (MJP)	MUNGO UNIVERSAL PLUG (MU)
PRODUCT INFORMATION	The MNA is superior to comparable products. It has a reinforced screw head that facilitates high knock-in loads. Screw head is phillips Pozi-Drive.	Fully threaded machine screws with Zinc plated wings. For medium duty fastening in hollow walls.	For light duty fastening in hollow wall. Can be expanded with screw-driver or setting tool.	For light to medium duty applications. Fast positive action.	Fast no drilling for light duty fastening. Sets with screwdriver. Conveniently packaged for all job sizes. Heatproof.	Top quality universal nylon plug for use with various building materials. Screw must exceed fitting and plug by 1/4".
FOR USE WITH	Requires no other fastener	Requires no other fastener	Requires no other fastener	Machine screws	Sheet metal screws	Coarse thread screws
FOR USE IN	Concrete, Solid Brick, Block	Wallboard, Hollow-block, Plaster	Wallboard, Plaster, Paneling	Hollow wall, Floor Panels	Sheetrock, Gypsum, Chipboard, Aerated Concrete, Plaster	Aerated Concrete, Hollow Brick, Drywall, Plaster
MADE OF	Virgin Nylon & Steel (Available in Stainless Steel)	Steel	Steel	Nylon, Steel	Zinc	Virgin Nylon
SIZE RANGE	3/16" x 1 3/16" to 5/16" x 5 1/2"	1/8" x 2" to 1/2" x 6"	1/8" x short to 1/4" x Long	1/8", 3/16",1/4"	#8	1/4" x 1 3/4" to 3/8" x 2 3/8"

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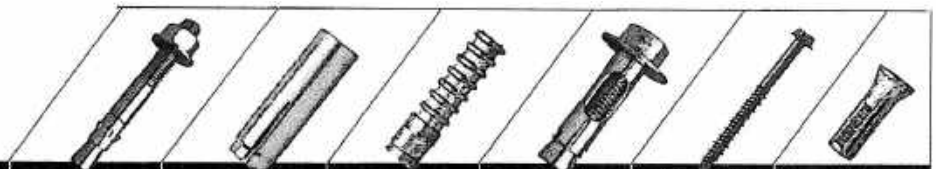
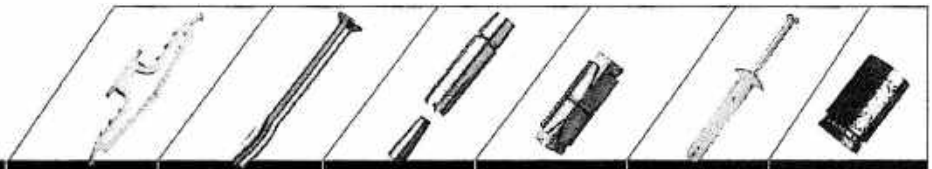
Anchor Selection Guide



ANCHOR TYPE	WEDGE	DROP-IN	LAG SHIELD	SLEEVE	CONCRETE SCREW	LEAD WOODSCREW
PRODUCT INFORMATION	One piece expansion bolt with universal style collar for heavy duty fastening applications.	Female style anchor with an internal plug for heavy duty applications.	A high quality zinc alloy anchor for light to medium fastening applications. Expands by tightening screw or bolt.	Heavy duty anchor available in many head styles. Does not require a solid base material for installation.	For medium to light duty applications. Available in hex or flat head. Corrosive resistant coating.	For light duty fastening applications. Can be used in irregular shaped holes due to the soft nature of the lead alloy.
FOR USE WITH	Requires no other fastener	Machine screw or bolt	Lag bolt	Requires no other fastener	Requires no other fastener	Wood, sheet metal or lag screw
FOR USE IN	Concrete, Stone	Concrete, Stone	Concrete, Brick, Mortar joint	Concrete, Brick, Block, Stone	Concrete, Brick, Block	Concrete, Brick, Block, Stone
MADE OF	Steel, 303 & 316 S.S., Galvanized	Steel, 303 S.S.	Rustproof Zinc Alloy	Steel, 304 S.S.	Steel	Lead alloy
SIZE RANGE	1/4" x 1 3/4" to 1 1/4" x 12"	1/4" to 3/4"	1/4" to 3/4"	1/4" x 7/8" to 3/4" x 6 1/4"	3/16" x 1 1/4" to 1/4" x 5"	#6-8 x 3/4" to #16-18 x 1 1/2"



ANCHOR TYPE	PLASTIC TOGGLE	SPLIT FAST ANCHOR	SELF - DRILLING	SINGLE / DOUBLE EXPANSION	NYLON NAIL	MACHINE SCREW
PRODUCT INFORMATION	Toggle type anchor for light duty fastening in hollow walls.	Easily hammered into a predrilled hole. Available in flat or round head.	Snap off style self-drilling anchor. No need for a previously drilled hole.	A high quality zinc alloy anchor that is easy to install. Sets by tightening screw or bolt.	A light duty fastener for use in most mediums. Available in mushroom, flat and round head.	A caulking type anchor with a Zinc alloy cone and a Lead ring.
FOR USE WITH	Sheet Metal screw	Requires no other fastener	Machine screw or bolt	Machine screw or bolt	Requires no other fastener	Machine screw or bolt
FOR USE IN	Wallboard, Plaster	Concrete, Stone	Concrete	Concrete, Block, Stone, Brick	Concrete, Brick, Block, Wallboard, Plaster	Concrete, Block, Stone, Brick
MADE OF	Polypropylene	Steel	Steel	Rustproof Zinc Alloy	Nylon and Steel	Zinc Alloy and Lead
SIZE RANGE	1/8" to 5/8"	3/16" x 1" to 1/4" x 4"	1/4" to 3/4"	1/4" to 3/4"	3/16" x 1" to 1/4" x 4"	6-32 to 3/4" – 10

Communication is the key to FSI's success

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KINGPIN
U.S. ANCHOR CORP.

Anchors

WEDGE ANCHORS

WEDGE ANCHORS ARE STOCKED IN BOTH CARBON STEEL AND STAINLESS STEEL

CARBON STEEL ITEM CODE	303 STAINLESS STEEL ITEM CODE	316 STAINLESS STEEL ITEM CODE	HOT DIPPED GALVANIZED ITEM CODE	DIAMETER & LENGTH	MINIMUM EMBEDMENT	THREAD LENGTH
W1416	W1416S	W1416S3		1/4" x 1 3/4"	1 1/8"	3/4"
W1422	W1422S	W1422S3		1/4" x 2 1/4"	1 1/8"	3/4"
W1432	W1432S			1/4" x 3 1/4"	1 1/8"	3/4"
W3822	W3822S			3/8" x 2 1/4"	1 1/2"	7/8"
W3826	W3826S	W3826S3		3/8" x 2 3/4"	1 1/2"	1 1/8"
W3830	W3830S	W3830S3		3/8" x 3"	1 1/2"	1 1/8"
W3836	W3836S	W3836S3		3/8" x 3 3/4"	1 1/2"	1 1/8"
W3850	W3850S	W3850S3		3/8" x 5"	1 1/2"	1 1/8"
W3864	W3864S			3/8" x 6 1/2"	1 1/2"	1 1/8"
W1226	W1226S	W1226S3	W1226G	1/2" x 2 3/4"	2 1/4"	1 1/4"
W1236	W1236S	W1236S3		1/2" x 3 3/4"	2 1/4"	1 1/4"
W1242	W1242S	W1242S3	W1242G	1/2" x 4 1/4"	2 1/4"	1 1/4"
W1254	W1254S	W1254S3	W1254G	1/2" x 5 1/2"	2 1/4"	1 1/4"
W1270	W1270S	W1270S3	W1270G	1/2" x 7"	2 1/4"	1 1/4"
W1284	W1284S			1/2" x 8 1/2"	2 1/4"	1 1/4"
W12100	W12100S			1/2" x 10"	2 1/4"	1 1/4"
W12 120	W12120S			1/2" x 12"	2 1/4"	1 1/4"
W5834	W5834S	W5834S3	W5834G	5/8" x 3 1/2"	2 3/4"	2"
W5844	W5844S	W5844S3		5/8" x 4 1/2"	2 3/4"	2"
W5850	W5850S	W5850S3	W5850G	5/8" x 5"	2 3/4"	2"
W5860	W5860S	W5860S3	W5860G	5/8" x 6"	2 3/4"	2"
W5870	W5870S	W5870S3		5/8" x 7"	2 3/4"	2"
W5884	W5884S	W5884S3		5/8" x 8 1/2"	2 3/4"	2"
W58100	W58100S			5/8" x 10"	2 3/4"	2"
W58120	W58120S			5/8" x 12"	2 3/4"	2"
W3442	W3442S	W3442S3		3/4" x 4 1/4"	3 1/4"	2"
W3446	W3446S	W3446S3	W3446G	3/4" x 4 3/4"	3 1/4"	2"
W3454	W3454S	W3454S3	W3454G	3/4" x 5 1/2"	3 1/4"	2"
W3462	W3462S			3/4" x 6 1/4"	3 1/4"	2"
W3470	W3470S	W3470S3		3/4" x 7"	3 1/4"	2"
W3484	W3484S	W3484S3	W3484G	3/4" x 8 1/2"	3 1/4"	2"
W34100	W34100S			3/4" x 10"	3 1/4"	2"
W34120				3/4" x 12"	3 1/4"	2"
W7860	W7860S		W7860G	7/8" x 6"	3 7/8"	2 1/4"
W7880	W7880S		W7880G	7/8" x 8"	3 7/8"	2 1/4"
W78100	W78100S			7/8" x 10"	3 7/8"	2 1/4"
W10060	W10060S			1" x 6"	4 1/2"	2 1/4"
W10090	W10090S		W10090G	1" x 9"	4 1/2"	2 1/4"
W100120	W100120S			1" x 12"	4 1/2"	2 1/4"
W100150				1" x 15"	4 1/2"	2 1/4"
W11490				1 1/4" x 9"	5 1/2"	3 1/4"
W114120				1 1/4" x 12"	5 1/2"	3 1/4"

TECHNICAL DATA

ULTIMATE LOAD VALUES

ANCHOR DIAMETER (IN)	EMBEDMENT DEPTH (IN)	TORQUE FT/LB	2000 PSI		4000 PSI		6000 PSI	
			TENSION (LBS.)	SHEAR (LBS.)	TENSION (LBS.)	SHEAR (LBS.)	TENSION (LBS.)	SHEAR (LBS.)
1/4	1-1/8	5-10	1170	1443	1771	1813	2773	2635
	1-3/4		1841	1443	2408	1813	2773	2635
	2-3/4		1975	1443	2748	1813	2830	2635
3/8	1-1/2	25-30	1631	4318	3636	5121	4448	6232
	3		3229	4318	5653	5121	5975	6232
	5		4074	4318	6328	5121	6360	6232
1/2	2-1/4	50-60	3999	7419	6714	9377	9616	9888
	4		6336	7419	8942	9377	10192	9888
	6		6902	7419	10175	9377	12064	9888
5/8	2-3/4	75-90	4999	8264	8747	12928	9760	16373
	5		8854	8264	15590	12928	16802	16373
	7		9381	8264	16710	12928	17732	16373
3/4	3-1/4	150-175	6638	12504	11314	17050	16230	22965
	6		10084	12504	18408	17050	21092	22965
	8		11170	12504	19805	17050	22522	22965
7/8	3-7/8	200-250	8392	18250	16354	20234	16801	23980
	5-3/4		12064	18250	18250	20234	23404	23980
	8-3/4		12784	18250	16850	20234	25575	23980
1	5-1/2	250-300	9773	23617	18250	27605	27460	28909
	7-1/2		11890	23617	26726	27605	34960	28909
	10		15590	23617	30491	27605	37840	28909
1-1/4	5-1/2	400-450	17550	32275	22971	42690	32368	55566
	7		21050	32275	27845	42690	48366	55566
	10		27893	32275	34788	42690	61272	55566

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Anchors

HAMMER DRIVE ANCHORS

HAMMER DRIVES WITH ZINC PLATED NAILS			
ITEM CODE	ANCHOR DIAMETER & LENGTH	HOLE SIZE	GRIP RANGE
H3107	3/16" x 7/8"	3/16"	0-1/8"
H1406	1/4" x 3/4"	1/4"	0-1/8"
H1410	1/4" x 1"	1/4"	1/8" - 1/4"
H1412	1/4" x 1 1/4"	1/4"	1/4" - 1/2"
H1414	1/4" x 1 1/2"	1/4"	1/2" - 3/4"
H1420	1/4" x 2"	1/4"	3/4" - 1 1/4"

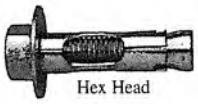
HAMMER DRIVES WITH STAINLESS STEEL NAILS			
ITEM CODE	ANCHOR DIAMETER & LENGTH	HOLE SIZE	GRIP RANGE
H1406S	1/4" x 3/4"	1/4"	0 - 1/8"
H1410S	1/4" x 1"	1/4"	1/8" - 1/4"
H1412S	1/4" x 1 1/4"	1/4"	1/4" - 1/2"
H1414S	1/4" x 1 1/2"	1/4"	1/2" - 3/4"
H1420S	1/4" x 2"	1/4"	3/4" - 1 1/4"

GSA Spec. FF-S-325, Group V, Type 2, Class 3

ULTIMATE LOAD VALUES 4000 PSI CONCRETE			
ANCHOR	EMBEDMENT	TENSION	SHEAR
1/4"	3/4"	1104	1289
	1"	1373	1394
	1 1/4"	1375	1399

SLEEVE ANCHORS

Acorn Head



Hex Head

Flat Head

Round Head

SLEEVE ANCHORS ARE STOCKED IN BOTH CARBON STEEL AND STAINLESS STEEL

CARBON STEEL				304SS		ULTIMATE LOAD				
ACORN HEAD ITEM CODE	HEX HEAD ITEM CODE	FLAT HEAD ITEM CODE	ROUND HEAD ITEM CODE	HEX HEAD ITEM CODE	FLAT HEAD ITEM CODE	TENSION 3500 PSI (LBS.) CONCRETE	SHEAR 3500 PSI (LBS.) CONCRETE	DIAMETER & LENGTH	MINIMUM EMBEDMENT	BOLT DIA.
SA1407						800	1500	1/4" X 7/8"	3/4"	3/16"
			SR1412			1300	1500	1/4" X 1 1/4"	1"	3/16"
SA1413		SF1413		SH1413S		1300	1500	1/4" X 1 3/8"	1"	3/16"
		SF1420	SR1420		SF1420S	1300	1500	1/4" X 2"	1"	3/16"
		SF1420T				1300	1500	1/4" X 2" thrshld	1"	3/16"
SA1422						1300	1500	1/4" x 2 1/4"	1"	3/16"
			SR1426			1300	1500	1/4" x 2 3/4"	1"	3/16"
		SF1430			SF1430S	1300	1500	1/4" x 3"	1"	3/16"
		SF1440				1300	1500	1/4" x 4"	1"	3/16"
	SH5614					1700	2000	5/16" x 1 1/2"	1"	1/4"
	SH5624					1700	2000	5/16" x 2 1/2"	1"	1/4"
	SH3817			SH3817S		2400	3000	3/8" x 1 7/8"	1 1/4"	5/16"
			SR3824			2400	3000	3/8" x 2 1/2"	1 1/4"	5/16"
		SF3826			SF3826S			3/8" x 2 3/4"	1 1/4"	5/16"
	SH3830	SF3830		SH3830S		2400	3000	3/8" x 3"	1 1/4"	5/16"
			SR3836					3/8" x 3 3/4"	1 1/4"	5/16"
	SH3840	SF3840			SF3840S	2400	3000	3/8" x 4"	1 1/4"	5/16"
			SR3846			2400	3000	3/8" x 4 3/4"	1 1/4"	5/16"
		SF3850				2400	3000	3/8" x 5"	2"	5/16"
		SF3860				2400	3000	3/8" x 6"	2"	5/16"
	SH1222			SH1222S		4700	5200	1/2" x 2 1/4"	1 1/2"	3/8"
	SH1230					4700	5200	1/2" x 3"	1 1/2"	3/8"
	SH1240			SH1240S		4700	5200	1/2" x 4"	1 1/2"	3/8"
	SH1260					4700	5200	1/2" x 6"	3"	3/8"
	SH5822					5900	10,100	5/8" x 2 1/4"	2"	1/2"
	SH5830					5900	10,100	5/8" x 3"	2"	1/2"
	SH5842			SH5842S		5900	10,100	5/8" x 4 1/4"	3 1/2"	1/2"
	SH5860					5900	10,100	5/8" x 6"	3 1/2"	1/2"
	SH3424					9200	15,000	3/4" x 2 1/2"	2"	5/8"
	SH3442					9200	15,000	3/4" x 4 1/4"	3 1/2"	5/8"
	SH3462					9200	15,000	3/4" x 6 1/4"	3 1/2"	5/8"

Same day color match - In house painting

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LEAD WOOD SCREW ANCHORS

ITEM CODE	SCREW SIZES	HOLE SIZE	ANCHOR LENGTH
WS6806	#6-#8	1/4"	3/4"
WS6810	#6-#8	1/4"	1"
WS6814	#6-#8	1/4"	1 1/2"
WS1006	#10-#12-#14	5/16"	3/4"
WS1010	#10-#12-#14	5/16"	1"
WS1014	#10-#12-#14	5/16"	1 1/2"
WS1610	#16-#18	3/8"	1"
WS1614	#16-#18	3/8"	1 1/2"

ALUMINUM DRIVE ANCHORS

ITEM CODE	ANCHOR DIAMETER & LENGTH	HOLE SIZE	NOMINAL GRIP
A1410	1/4" x 1"	1/4"	7/8"
A1412	1/4" x 1 1/4"	1/4"	1 1/8"
A1414	1/4" x 1 1/2"	1/4"	1 3/8"

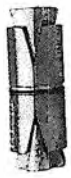
SINGLE EXPANSION ANCHORS

ITEM CODE	INTERNAL DIAMETER	HOLE SIZE	ANCHOR LENGTH
SE14	1/4"	1/2"	1 5/16"
SE56	5/16"	5/8"	1 1/2"
SE38	3/8"	5/8"	1 1/2"
SE12	1/2"	7/8"	2"
SE58	5/8"	1"	2 5/8"
SE34	3/4"	1 1/4"	2 3/4"

ULTIMATE LOAD VALUES

ANCHOR	ANCHOR/ DRILL DIA.	ULTIMATE LOAD			
		Concrete 3700 PSI		Hollow Block	
		Tension (Lbs.)	Shear (Lbs.)	Tension (Lbs.)	Shear (Lbs.)
SE14	1/2"	1760	2120	833	1215
SE56	5/8"	2080	3200	-	-
SE38	3/4"	2310	3800	-	-
SE12	7/8"	3600	8100	-	-
SE58	1"	5980	12,000	-	-
SE34	1 1/4"	8910	15,200	-	-

DOUBLE EXPANSION ANCHORS



ITEM CODE	INTERNAL DIAMETER	HOLE SIZE	ANCHOR LENGTH
DE14	1/4"	1/2"	1"
DE56	5/16"	5/8"	1 1/4"
DE38	3/8"	3/4"	2"
DE12	1/2"	7/8"	2"
DE58	5/8"	1"	2 1/4"
DE34	3/4"	1 1/4"	2 7/8"

NYLON NAIL ANCHORS

ITEM CODE	DIAMETER & LENGTH	HEAD DIAMETER	HOLE SIZE
MUSHROOM HEAD SIZES			
N3110M	3/16" X 1"	9/16"	3/16"
N3114M	3/16" X 1/2"	9/16"	3/16"
N1406M	1/4" X 3/4"	9/16"	1/4"
N1410M	1/4" X 1"	9/16"	1/4"
N1414M	1/4" X 1 1/2"	9/16"	1/4"
N1420M	1/4" X 2"	9/16"	1/4"
N1430M	1/4" X 3"	9/16"	1/4"
ROUND HEAD SIZES			
N3110R	3/16" x 1"	3/8"	3/16"
N3114R	3/16" x 1 1/2"	3/8"	3/16"
N1410R	1/4" x 1"	7/16"	1/4"
N1414R	1/4" x 1 1/2"	7/16"	1/4"
N1420R	1/4" x 2"	7/16"	1/4"
FLAT HEAD SIZES			
N3110F	3/16" x 1"	3/8"	3/16"
N3114F	3/16" x 1 1/2"	3/8"	3/16"
N1410F	1/4" x 1"	7/16"	1/4"
N1414F	1/4" x 1 1/2"	7/16"	1/4"
N1420F	1/4" x 2"	7/16"	1/4"

RIBBED PLASTIC ANCHORS

ITEM CODE	DIAMETER & LENGTH	HOLE SIZE	TO USE WITH SCREW SIZES	COLOR
RIBBED PLASTIC ANCHORS WITH LIP				
RPA68BX	3/16" x 7/8"	3/16"	#6 - #8	GRAY
RPA68BXR	3/16" x 7/8"	3/16"	#6 - #8	RED
RPA68BG	3/16" x 7/8"	3/16"	#6 - #8	GRAY
RPA68BGR	3/16" x 7/8"	3/16"	#6 - #8	RED
RPA68BL	3/16" x 7/8"	3/16"	#6 - #8	GRAY
RPA68BLR	3/16" x 7/8"	3/16"	#6 - #8	RED
RPA1012BX	1/4" x 1"	1/4"	#10 - #12	GRAY
RPA1012BXR	1/4" x 1"	1/4"	#10 - #12	RED
RPA1012BG	1/4" x 1"	1/4"	#10 - #12	GRAY
RPA1012BGR	1/4" x 1"	1/4"	#10 - #12	RED
RPA1012BL	1/4" x 1"	1/4"	#10 - #12	GRAY
RPA1012BLR	1/4" x 1"	1/4"	#10 - #12	RED
RPA1416BX	5/16" x 1 1/4"	5/16"	#14 - #16	GRAY
RPA1416BXR	5/16" x 1 1/4"	5/16"	#14 - #16	RED
RPA1416BG	5/16" x 1 1/4"	5/16"	#14 - #16	GRAY
RPA1416BGR	5/16" x 1 1/4"	5/16"	#14 - #16	RED
RPA1416BL	5/16" x 1 1/4"	5/16"	#14 - #16	GRAY
RPA1416BLR	5/16" x 1 1/4"	5/16"	#14 - #16	RED
RIBBED PLASTIC ANCHORS WITHOUT LIP				
RPANL68BX	3/16" x 7/8"	3/16"	#6 - #8	GRAY
RPANL68BG	3/16" x 7/8"	3/16"	#6 - #8	GRAY
RPANL68BL	3/16" x 7/8"	3/16"	#6 - #8	GRAY
RPANL1012BX	1/4" x 1"	1/4"	#10 - #12	GRAY
RPANL1012BG	1/4" x 1"	1/4"	#10 - #12	GRAY
RPANL1012BL	1/4" x 1"	1/4"	#10 - #12	GRAY
RPANL1416BX	5/16" x 1 1/4"	5/16"	#14 - #16	GRAY
RPANL1416BG	5/16" x 1 1/4"	5/16"	#14 - #16	GRAY
RPANL1416BL	5/16" x 1 1/4"	5/16"	#14 - #16	GRAY

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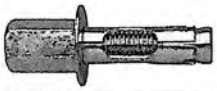
Anchors

ACOUSTICAL WEDGE ANCHORS

ITEM CODE	DIAMETER & LENGTH	DRILL DIA.	MINIMUM EMBEDMENT	EYE DIAMETER
W1422A	1/4" X 2 1/4"	1/4"	1 1/8"	1/4"

SLEEVE TYPE ROD HANGERS



ITEM CODE	DIAMETER & LENGTH	DRILL DIAMETER	OPEN END DIAMETER OR ROD	MINIMUM EMBEDMENT
RH5614	5/16" x 1 1/2"	5/16"	1/4"	1"
RH3838	3/8" x 1 7/8"	3/8"	3/8"	1 1/4"
RH1212	1/2" x 2 1/4"	1/2"	1/2"	1 1/2"
RH5858	5/8" x 2 1/4"	5/8"	5/8"	2"

DROP-IN ANCHORS - CARBON STEEL

CARBON STEEL ITEM CODE	ANCHOR SIZE	HOLE SIZE	THREAD DEPTH	ANCHOR LENGTH
D14	1/4"	3/8"	1/2"	1"
D38	3/8"	1/2"	5/8"	1 9/16"
D12	1/2"	5/8"	1 3/16"	2"
D58	5/8"	7/8"	1 3/16"	2 1/2"
D34	3/4"	1"	1 3/16"	3 1/8"

DROP-IN ANCHORS - 303 STAINLESS STEEL

STAINLESS STEEL ITEM CODE	ANCHOR SIZE	HOLE SIZE	THREAD DEPTH	ANCHOR LENGTH	SETTING TOOL *
D14S	1/4"	3/8"	1/2"	1"	DT14
D38S	3/8"	1/2"	5/8"	1 9/16"	DT38
D12S	1/2"	5/8"	1 13/16"	2"	DT12
D58S	5/8"	7/8"	1 13/16"	2 1/2"	DT58
D34S	3/4"	1"	1 13/16"	3 1/8"	DT34

ULTIMATE LOADS TABLE

ANCHOR TYPE	ANCHOR DIAMETER	EMBEDMENT DEPTH	4500 PSI	
			TENSION	SHEAR
DROP-IN	1/4"	1"	2551	2422
	3/8"	1-9/16"	4698	5117
	1/2"	2"	9472	7812
	5/8"	2-1/2"	9936	15229
	3/4"	3-1/8"	12798	16087

SELF-DRILLING ANCHORS

ITEM CODE	ANCHOR SIZE	OUTSIDE DIAMETER	OVERALL LENGTH	THREAD DEPTH
S14	1/4"	7/16"	1 7/32"	1/2"
S56	5/16"	1/2"	1 7/16"	9/16"
S38	3/8"	9/16"	1 1/2"	5/8"
S12	1/2"	11/16"	2"	7/8"
S58	5/8"	7/8"	2 7/16"	1"
S34	3/4"	1"	3 3/16"	1"

MACHINE SCREW ANCHORS

ITEM CODE	INTERNAL DIAMETER	HOLE SIZE	MINIMUM HOLE	SETTING TOOL
M6	6-32	5/16"	1/2"	MT6
M8	8-32	5/16"	1/2"	MT8
M10	10-24	3/8"	5/8"	MT10
M14	14-20	1/2"	7/8"	MT14
M56	5/16-18	5/8"	1"	MT56
M38	3/8 -16	3/4"	1 1/4"	MT38
M12	1/2-13	7/8"	1 1/2"	MT12
M58	5/8-11	1 1/8"	2"	MT58
M34	3/4-10	1 1/4"	2 1/4"	MT34

ULTIMATE LOAD VALUES

ANCHOR	ANCHOR / DRILL DIA.	ULTIMATE LOAD (LBS) 3500 PSI	
		TENSION	SHEAR
M6	5/16"	406	590
M8	5/16"	790	700
M10	3/8"	970	1190
M14	1/2"	2200	2100
M56	5/8"	3100	2400
M38	3/4"	5500	4300
M12	7/8"	6310	5000
M58	1 1/8"	7440	12,900

We put the *fast* in fasteners

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KINGPIN
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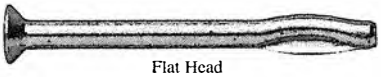
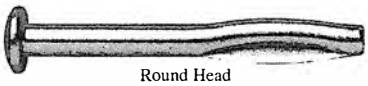
Anchors

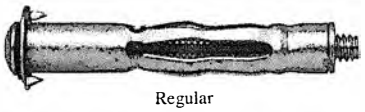
SPLIT FAST ANCHORS


Flat Head


Round Head

ITEM CODE	DIAMETER & LENGTH	HOLE SIZE	MINIMUM EMBEDMENT
FLAT HEAD SIZES			
SD3110F	3/16" x 1"	3/16"	7/8"
SD3114F	3/16" x 1 1/2"	3/16"	7/8"
SD3120F	3/16" x 2"	3/16"	7/8"
SD3124F	3/16" x 2 1/2"	3/16"	7/8"
SD3130F	3/16" x 3"	3/16"	7/8"
SD1414F	1/4" x 1 1/2"	1/4"	1 1/8"
SD1420F	1/4" x 2"	1/4"	1 1/8"
SD1424F	1/4" x 2 1/2"	1/4"	1 1/8"
SD1430F	1/4" x 3"	1/4"	1 1/8"
SD1434F	1/4" x 3 1/2"	1/4"	1 1/8"
SD1440F	1/4" x 4"	1/4"	1 1/8"
ROUND HEAD SIZES			
SD1412R	1/4" x 1 1/4"	1/4"	1 1/8"
SD1414R	1/4" x 1 1/2"	1/4"	1 1/8"
SD1420R	1/4" x 2"	1/4"	1 1/8"
SD1424R	1/4" x 2 1/2"	1/4"	1 1/8"

HOLLOW WALL ANCHORS


Regular

Drive

ITEM CODE	ANCHOR SIZE	SCREW SIZE & LENGTH	HOLE SIZE	ANCHOR BODY LENGTH	GRIP RANGE	HEAD STYLE
HOLLOW WALL ANCHORS						
HW18XS	1/8 XShort	6-32 x 1"	5/16"	3/4"	1/16" - 1/4"	Pan/Combo
HW18S	1/8 Short	6-32 x 1 1/2"	5/16"	1 1/4"	1/8" - 1/2"	Pan/Combo
HW18SH	1/8 Short	6-32 x 1 1/2"	5/16"	1 1/4"	1/8" - 1/2"	Hex
HW18L	1/8Long	6-32 x 2"	5/16"	1 5/8"	5/8" - 7/8"	Pan/Combo
HW18LH	1/8 Long	6-32 x 2"	5/16"	1 5/8"	5/8" - 7/8"	Hex
HW18SL	1/8 SLong	6-32 x 2"	5/16"	1 3/4"	1/8" - 13/16"	Pan/Combo
HW18XL	1/8 XLong	6-32 x 2 1/2"	5/16"	2 1/4"	1 1/4" - 1 1/2"	Pan/Combo
HW31S	3/16 Short	10-24 x 2 1/4"	3/8"	2 1/16"	1/8" - 5/8"	Pan/Combo
HW31L	3/16 Long	10-24 x 2 3/4"	3/8"	2 1/2"	5/8" - 1 3/16"	Pan/Combo
HW31XL	3/16 XLong	10-24 x 3 1/2"	3/8"	3 1/8"	1 1/4" - 1 3/4"	Pan/Combo
HW14S	1/4 Short	1/4-20 x 2 1/4"	1/2"	2 1/16"	1/8" - 5/8"	Pan Combo
HW14L	1/4 Long	1/4-20 x 2 3/4"	1/2"	2 1/2"	5/8" - 1 3/16"	Pan/Combo
HW14XL	1/4 XLong	1/4-20 x 3 1/2"	1/2"	3 1/8"	1 1/4" - 1 3/4"	Pan/Combo
HOLLOW WALL DRIVE ANCHORS						
HWD18XS	1/8 XShort	6-32 x 1 3/8"	5/16"	3/4"	1/16" x 1/4"	Pan/Combo
HWD18S	1/8 Short	6-32 x 1 3/4"	5/16"	1 1/4"	1/8" x 1/2"	Pan/Combo
HWD18SH	1/8 Short	6-32 x 1 3/4"	5/16"	1 1/4"	1/8" - 1/2"	HEX
HWD18L	1/8 Long	6-32 x 2 11/32"	5/16"	1 3/4"	5/8" - 7/8"	Pan/Combo
HWD18SL	1/8 SLong	6-32 x 2 11/32"	5/16"	1 3/4"	1/8" - 13/16"	Pan/Combo
HWD18SLH	1/8 SLong	6-32 x 2 11/32"	5/16"	1 3/4"	1/8" - 13/16"	Hex
HOLLOW DOOR ANCHORS						
HD18XS	1/8 XShort	6-32 x 1"	11/32"	11/32"	0 - 3/16"	Pan/Combo
HD18MS	1/8 MShort	6-32 x 1"	11/32"	13/16	3/16" - 3/8"	Pan/Combo
HOLLOW DOOR DRIVE ANCHORS						
HDD18MS	1/8 MShort	6-32 x 1 11/32"	11/32"	13/16"	3/16" - 3/8"	Pan/Combo

Hollow Wall Setting Tool

HOLLOW WALL SETTING TOOLS	
ITEM CODE	**DESCRIPTION**
HWST	Standard setting tool for 1/8" & 3/16" Hollow Wall anchors
HWST2	Heavy duty setting tool for 3/16" & 1/4" Hollow Wall anchors

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ULTRABOND

U.S. ANCHOR CORP.

Ultrabond 1

Ultrabond 1 is a "fast cure" formula specifically developed for projects requiring "fast bolt-up" and extended working time in a variety of applications.

- Anchoring and doweling in concrete
- Anchoring in hollow block, brick and stone
- Bonding concrete to concrete

TECHNICAL DATA

CURE TIME**
Gel Time ..... 8–10 Minutes
Loading Time ..... 4 Hours
Full-Cure Time ..... 48 Hours

** Gel, loading and cure times are based on a temperature of 78°F (25°C). Gel times are calculated on a mass of 20 grams.

ULTIMATE LOADS TABLE

ANCHOR DIAMETER (IN)	HOLE DIAMETER (IN)	EMBEDMENT (IN)	f´c=3000PSI		f´c=5000PSI		f´c=7000PSI	
			ULTIMATE TENSION LOAD (LBS.)	ULTIMATE SHEAR LOAD (LBS.)	ULTIMATE TENSION LOAD (LBS.)	ULTIMATE SHEAR LOAD (LBS.)	ULTIMATE TENSION LOAD (LBS.)	ULTIMATE SHEAR LOAD (LBS.)
3/8	7/16	3-1/2	9334	6941	10122	7034	10937	7143
1/2	9/16	4-1/2	14146	8316	14513	10379	18400	13097
5/8	3/4	5-5/8	19600	15326	20688	18056	29286	19052
3/4	7/8	6-3/4	25053	22336	26864	25733	34762	26073
7/8	1	7-7/8	33374	29365	34328	31409	39524	33093
1	1-1/8	9	41696	36395	41792	37085	52143	40950

Values shown are average ultimate values and are offered only as a guide and are not guaranteed in any way. A safety factor of 4:1 or 25% is generally accepted as a safe working load. Reference should be made to applicable codes for the specific working ratio.

Ultrabond 2

Ultrabond 2 is a "slow cure" formula designed specifically for job conditions requiring maximum working times up to 25 minutes.

- Anchoring and doweling in concrete
- Anchoring in hollow block, brick and stone
- Bonding concrete to concrete

TECHNICAL DATA

CURE TIME**
Gel Time ..... 25 Minutes
Loading Time ..... 10 Hours
Full-Cure Time ..... 48 Hours

** Gel, loading and cure times are based on a temperature of 78°F (25°C). Gel times are calculated on a mass of 20 grams.

ULTIMATE LOADS TABLE

ANCHOR DIAMETER (IN)	HOLE DIAMETER (IN)	EMBEDMENT (IN)	f´c=3000PSI		f´c=5000PSI	
			ULTIMATE TENSION LOAD (LBS.)	ULTIMATE SHEAR LOAD (LBS.)	ULTIMATE TENSION LOAD (LBS.)	ULTIMATE SHEAR LOAD (LBS.)
3/8	7/16	3-1/2	9334	7217	9726	6850
1/2	9/16	4-1/2	14500	9691	14713	10840
5/8	3/4	5-5/8	21804	15025	22460	15220
3/4	7/8	6-3/4	29109	20360	30208	19600
7/8	1	7-7/8	37769	30914	40229	26982
1	1-1/8	9	46430	41468	50250	34365

Values shown are average ultimate values and are offered only as a guide and are not guaranteed in any way. A safety factor of 4:1 or 25% is generally accepted as a safe working load. Reference should be made to applicable codes for the specific working ratio.

Ultrabond 3

Ultrabond 3 is an "ultra-fast cure" formula engineered specifically for cold-weather applications. Ultrabond 3 is also perfect for projects requiring "bolt-up" times as quick as 90 minutes.

- Anchoring and doweling in concrete

CURE TIME**
Gel Time ..... 5 Minutes
Loading Time ..... 90 Minutes
Full-Cure Time ..... 24 Hours

** Gel, loading and cure times are based on a temperature of 78°F (25°C). Gel times are calculated on a mass of 20 grams.

ULTIMATE LOADS TABLE

ANCHOR DIAMETER (IN)	HOLE DIAMETER (IN)	EMBEDMENT (IN)	f´c=3000PSI		f´c=5000PSI		f´c=7000PSI	
			ULTIMATE TENSION LOAD (LBS.)	ULTIMATE SHEAR LOAD (LBS.)	ULTIMATE TENSION LOAD (LBS.)	ULTIMATE SHEAR LOAD (LBS.)	ULTIMATE TENSION LOAD (LBS.)	ULTIMATE SHEAR LOAD (LBS.)
3/8	7/16	3-1/2	10898	7311	10900	7034	10738	7143
1/2	9/16	4-1/2	13384	8316	14333	10379	18681	13153
5/8	3/4	5-5/8	21692	16345	23365	16923	31190	19762
3/4	7/8	6-3/4	30000	24375	32397	23467	40357	28096
7/8	1	7-7/8	39941	32343	42970	31819	46190	36429
1	1-1/8	9	49881	40312	53544	40315	58096	45237

Values shown are average ultimate values and are offered only as a guide and are not guaranteed in any way. A safety factor of 4:1 or 25% is generally accepted as a safe working load. Reference should be made to applicable codes for the specific working ratio.

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ULTRABOND
U.S. ANCHOR CORP.

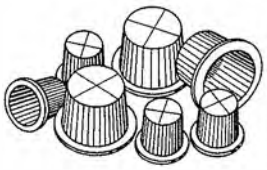
Ultrabond System Accessories

Chemical Anchoring Screens

GALVANIZED				
ITEM CODE	DIAMETER & LENGTH	HOLE DIAMETER	BAG QUANTITY	WEIGHT (LBS.) PER 100
S38-4	3/8" X 4"	1/2"	10	1.3
S38-6	3/8" x 6"	1/2"	10	1.5
S38-10	3/8" X 10"	1/2"	10	1.7
S12-4	1/2" X 4"	5/8"	10	1.5
S12-6	1/2" x 6"	5/8"	10	1.7
S12-10	1/2" X 10"	5/8"	10	2.3
S58-4	5/8" X 4"	3/4"	10	1.7
S58-6	5/8" x 6"	3/4"	10	1.9
S58-10	5/8" X 10"	3/4"	10	2.3
S34-4	3/4" X 4"	7/8"	10	1.7
S34-6	3/4" x 6"	7/8"	10	1.9
S34-10	3/4" X 10"	7/8"	10	2.7

HIGH DENSITY PLASTIC			
ITEM CODE	DIAMETER & LENGTH	HOLE DIAMETER	BAG QUANTITY
PS38-4	3/8" X 4"	1/2"	10
PS38-6	3/8" X 6"	1/2"	10
PS38-10	3/8" X 10"	1/2"	10
PS12-4	1/2" X 4"	5/8"	10
PS12-6	1/2" X 6"	5/8"	10
PS12-10	1/2" X 10"	5/8"	10
PS58-4	5/8" X 4"	3/4"	10
PS58-6	5/8" X 6"	3/4"	10
PS58-10	5/8" X 10"	3/4"	10
PS34-4	3/4" X 4"	7/8"	10
PS34-6	3/4" X 6"	7/8"	10
PS34-10	3/4" X 10"	7/8"	10

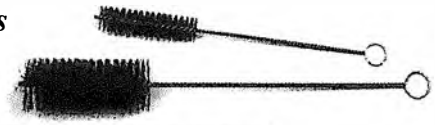
Epoxy Retaining Plugs



ITEM CODE	DIAMETER & LENGTH
RP916	3/8" TO 1/2" ROD 9/16" HOLE
RP58	1/2" ROD 5/8" HOLE
RP34	5/8" ROD 3/4" HOLE
RP78	3/4" ROD 7/8" HOLE
RP100	7/8" ROD 1" HOLE
RP118	1" ROD 1 1/8" HOLE

Note: Air drills create larger holes

Nylon Brushes



ITEM CODE	DIAMETER & LENGTH
BR3812	3/8" - 1/2" HOLE
BR58100	1/2" - 1" HOLE

"EZ-D"™ *(EZ10 Drill Attachment)*

ITEM CODE	ITEM DESCRIPTION
EZ-D	EZ 10 Drill Attachment

Threaded Rod

ITEM CODE	ITEM DESCRIPTION
TR38STR	3/8" X 5"
TR12STR	1/2" X 6 1/2"
TR58STR	5/8" X 7 5/8"
TR34STR	3/4" X 9 3/4"
TR78STR	7/8" X 10 1/2"
TR100STR	1" X 11 3/4"

"HP" Nozzles - Bulk (Packages of 100)

ITEM CODE	DESCRIPTION
T3812X6	(Exclusively for 6 oz. systems) • Dual 1/2" to 3/8" nozzle
T5838	• Dual 5/8" and 3/8" nozzle • 3/8" can break off to 5/8"
T5812	• Dual 5/8" and 1/2" nozzle • 1/2" can break off to 5/8"

"HP" Nozzles - Kits (3 nozzles & 1 nut per kit)

ITEM CODE	DESCRIPTION
T3812 X6K✢	(Exclusively for 6 oz. systems) • Dual 1/2" to 3/8" nozzle • 3/8" can break off to 1/2"
T5838 K	• Dual 5/8" and 3/8" nozzle • 3/8" can break off to 5/8"
T5812 K	• Dual 5/8" and 1/2" nozzle • 1/2" can break off to 5/8"
T78S*	• 7/8" outside diameter • high flow nozzle

* NOT AVAILABLE IN KITS / SOLD INDIVIDUALLY
✢ NUT NOT INCLUDED

UTI - Ultrabond Threaded Insert

ITEM CODE	HOLE DIAMETER	HOLE DEPTH	BOLT SIZE & THREADS PER INCH
UTI 38	3/4"	2 1/2"	3/8 - 16 unc.
UTI 12	7/8"	3 3/8"	1/2 - 13 unc.
UTI 58	1"	4 1/2	5/8 - 11 unc.
UTI 34	1 1/8"	5 1/2"	3/4 - 10 unc.
UTI 78	1 1/4"	6 1/2"	7/8 - 9 unc.
UTI 100	1 1/2"	8"	1" - 8 unc.

Cartridge Heater

ITEM CODE	ITEM DESCRIPTION	WEIGHT PER EACH
UCH	Cartridge Heater	9 lbs.

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ULTRABOND
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Ultrabond "EZ Set" Capsules

CAPSULE ITEM CODE	CAPSULE DIAMETER	BOX/CTN QUANTITY
EZ38	3/8"	10
EZ12	1/2"	10
EZ58	5/8"	10
EZ34	3/4"	10

Larger size capsules available.

CURE TIME	
+68°F	20 Minutes
50-68°F	30 Minutes
14-32°F	1 Hour
5-14°F	5 Hours

Values shown are average ultimate values and are offered only as a guide and are not guaranteed in any way. A safety factor of 4:1 or 25% is generally accepted as a safe working load. Reference should be made to applicable codes for the specific working ratio.

Ultrabond Glass Capsules

Vinyl Ester & Polyester Products

POLYESTER		
CAPSULE ITEM CODE	CAPSULE DESCRIPTION	BOX/CTN QUANTITY
P38	3/8"	10
P12	1/2"	10
P58	5/8"	10
P34	3/4"	10
P78	7/8"	10
P100	1"	10
P114	1 1/4"	5

VINYL ESTER		
CAPSULE ITEM CODE	CAPSULE DESCRIPTION	BOX/CTN QUANTITY
E38	3/8"	10
E12	1/2"	10
E58	5/8"	10
E34	3/4"	10
E78	7/8"	10
E100	1"	10
E114	1 1/4"	5

ULTIMATE LOADS TABLE - VINYL ESTER CAPSULES						
ANCHOR DIAMETER (IN)	HOLE DIAMETER (IN)	EMBEDMENT (IN)	f'c = 3000PSI		f'c = 5000PSI	
			ULTIMATE TENSION LOAD (LBS)	ULTIMATE SHEAR LOAD (LBS)	ULTIMATE TENSION LOAD (LBS)	ULTIMATE SHEAR LOAD (LBS)
3/8	7/16	3-1/2	10070	6113	10562	7402
1/2	9/16	4-1/2	15844	6904	16977	10152
5/8	3/4	5-5/8	23702	11857	27839	18388
3/4	7/8	6-3/4	31520	16810	38700	26624
7/8	1	7-7/8	45977	26949	44523	32086
1	1-1/8	9	50434	37088	50345	37547

"SPEED SET"™ System

SPEED SET" cartridges are simple and quick. Simply attach the mixing nozzle to the cartridges and insert the cartridge into the dispensing tool. "SPEED SET" cartidges can be dispensed with either the VM11 (Manual Dispensing Tool) or the VA11 (Air Dispensing Tool).

ORDERING INFORMATION

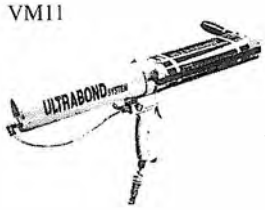
Cartridges

ITEM CODE	DIAMETER
VSS7	7.2 FL. OZ.
VSS11	11.7 FL. OZ.

Mixing Nozzles

ITEM CODE
VN38
VN38

VM11



VA11

Dispensing Tools (for both 7.2 and 11.7 fl. oz. systems)

ITEM CODE	ITEM DESCRIPTION
VM11	Manual Tool
VA11	Air Tool

VINYL ESTER & POLYESTER ACCESSORIES

Chamfered Threaded Studs and Rod Drivers for Glass Capsules

CARBON STEEL ITEM CODE	304 STAINLESS ITEM CODE	DIAMETER & LENGTH	MINIMUM EMBEDMENT	ROD DRIVER
TR38	TR38S	3/8" X 5"	3 1/2"	TRD38
TR12	TR12S	1/2" X 6 1/2"	4 1/4"	TRD12
TR58	TR58S	5/8" X 7 5/8"	5"	TRD58
TR34	TR34S	3/4" X 9 3/4"	6 5/8"	TRD34
TR78	TR78S	7/8" X 10 1/2"	7"	TRD78
TR100	TR100S	1" X 11 3/4"	8 1/4"	TRD100
TR114	TR114S	1 1/4" X 14 1/8"	10 1/4'	TRD114

Threaded Rod for "EZ Set" Capsules and "Speed Set" Systems

ITEM CODE	ITEM DESCRIPTION
TR38STR	3/8" X 5"
TR12STR	1/2" X 6 1/2"
TR58STR	5/8" X 7 5/8"
TR34STR	3/4" X 9 3/4"
TR78STR	7/8" X 10 1/2"
TR100STR	1" X 11 3/4"

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KINGPIN
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Anchors

LAG SHIELDS

SHORT STYLE			
ITEM CODE	ANCHOR SIZE	HOLE SIZE	ANCHOR LENGTH
LSS14	1/4"	1/2"	1"
LSS56	5/16"	1/2"	1 1/4"
LSS38	3/8"	5/8"	1 3/4"
LSS12	1/2"	3/4"	2"
LSS58	5/8"	7/8"	2"
LSS34	3/4"	1"	2"

LONG STYLE			
ITEM CODE	ANCHOR SIZE	HOLE SIZE	ANCHOR LENGTH
LSL14	1/4"	1/2"	1 1/2"
LSL56	5/16"	1/2"	1 3/4"
LSL38	3/8"	5/8"	2 1/2"
LSL12	1/2"	3/4"	3"
LSL58	5/8"	7/8"	3 1/2"
LSL34	3/4"	1"	3 1/2"

GSA Spec. FF - S - 325, Group II, Type 1 Classes 1 & 2

CALL FSI FOR ALL TECHNICAL DATA

VINYL PLASTIC PLUGS

ITEM CODE	DIAMETER & LENGTH	SCREW SIZES	HOLE SIZE	COLOR
VP1810	1/8" x 1"	#1 - #3	1/8"	YELLOW
VP3110	3/16" x 1"	#4 - #6	3/16"	WHITE
VP3114	3/16" x 1 1/2"	#4 - #6	3/16"	WHITE
VP1510	15/64" x 1"	#7 - #9	15/64"	RED
VP1514	15/64" x 1 1/2"	#7 - #9	15/64"	RED
VP1410	1/4" x 1"	#10 - #12	1/4"	GREEN
VP1412	1/4" x 1 1/4"	#10 - #12	1/4"	GREEN
VP1414	1/4" x 1 1/2"	#10 - #12	1/4"	GREEN
VP1420	1/4" x 2"	#10 - #12	1/4"	GREEN
VP5610	5/16" x 1"	#14 or 1/4" Lag	5/16"	BLUE
VP5614	5/16" x 1 1/2"	#14 or 1/4" Lag	5/16"	BLUE
VP5620	5/16" x 2"	#14 pr 1/4" Lag	5/16"	BLUE
VP3814	3/8" X 1 1/2"	#16 or 5/16" Lag	3/8"	ORANGE
VP3820	3/8" x 2"	#16 or 5/16" Lag	3/8"	ORANGE
VP3824	3/8" x 2 1/2"	#16 or 5/15" Lag	3/8"	ORANGE
VP7 120	7/16" x 2"	#20 or 3/8" Lag	7/16"	GREY
VP7 124	7/16" x 2 1/2"	#20 or 3/8" Lag	7/16"	GREY
VP5824	5/8" x 2 1/2"	1/2" Lag	5/8"	BLACK
VP5830	5/8" x 3"	1/2" Lag	5/8"	BLACK

DRIVE PINS AND SETTING TOOLS

ITEM CODE	HEAD DIAMETER & OVERALL LENGTH	PIN DIAMETER	MINIMUM EMBEDMENT
DP4	1/4" x 1/2"	1/7"	3/8"
DP6	1/4" x 3/4"	1/7"	5/8"
DP8	1/4" x 1"	1/7"	5/8"
DP10	1/4" x 1 1/4"	1/7"	5/8"
DP12	1/4" x 1 1/2"	1/7"	5/8"
DP16	1/4" x 2"	1/7"	5/8"
DP20	1/4" x 2 1/2"	1/7"	5/8"
DP24	1/4" x 3"	1/7"	5/8"
DPT	Drive Pin Setting Tool		

COUPLING NUTS - THROUGH AND REDUCER

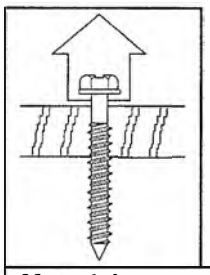
ITEM CODE	INTERNAL THREAD SIZE	THICKNESS ACROSS THE FLAT	LENGTH	BOX / CTN QUANTITY
		THROUGH COUPLINGS		
CN 14	1/4"-20	3/8"	7/8"	100/1000
CN56	5/16"-18	3/8"	7/8"	100/1000
CN38	3/8"-16	1/2"	1"	100/1000
CN12	1/2"-13	5/8"	1 1/4"	50/500
CN58	5/8"-11	3/4"	1 1/2"	25/250
CN34	3/4"-10	1"	2 1/4"	20/100
		REDUCER COUPLINGS		
CN1438	1/4"-20 to 3/8"-16	1/2"	1"	100/1000
CN5638	5/16"-18 to 3/8"-16	1/2"	1"	100/1000
CN3812	3/8"-16 to 1/2"-13	5/8"	1 1/4"	50/500
CN1258	1/2"-13 to 5/8"-11	3/4"	1 1/2"	25/250

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

Tapcon® Type Masonry System

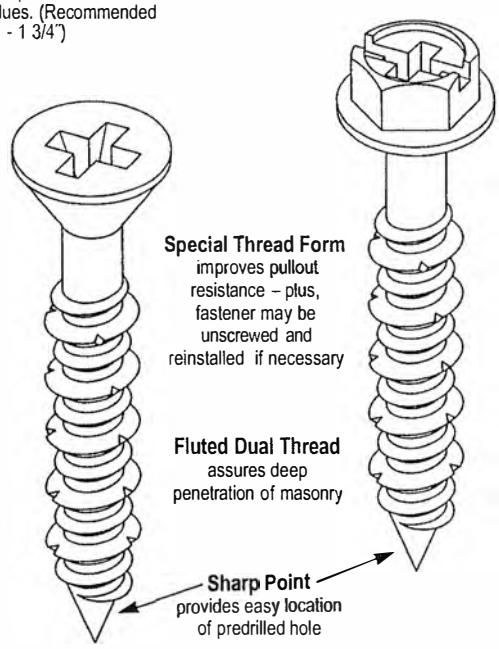
* Includes fixture thickness. Hole depth in concrete or masonry should be at least 1/4" deeper than the fastener length. 1" minimum thread engagement required to achieve listed pullout and shear values. (Recommended engagement range 1 - 1 3/4")

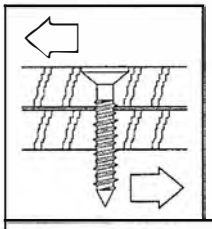
** Drill Bit Selection
5/32" bit for 3/16" fasteners,
3/16" bit for 1/4" fasteners.



Pull-Out Values (Lbs.)
for Con-Mate Fasteners

Material	Embedment	Fastener Diameter 3/16"	Fastener Diameter 1/4"
3000 PSI Concrete	1"	610	2030
6380 PSI Concrete	1"	608	1150
Hollow Block	1"	1408	1806





Shear Values (Lbs.)
for Con-Mate Fasteners

Material	Embedment	Fastener Diameter 3/16"	Fastener Diameter 1/4"
3000 PSI Concrete	1"	796	1261
6380 PSI Concrete	1"	1038	1572
Hollow Block	1"	712	1591

*3/16" Dia. Available From 1-1/4" to 4"
* 1/4" Dia. Available From 1-1/4" to 6"

SDS AND ROUND SHANK CARBIDE DRILL BITS ARE AVAILABLE FOR TAPCON® FASTENING SYSTEM

HEAVY-DUTY HOLE-SHOOTER

0102-1

- 0-2500 rpm; 3.5 amp motor

0141-1

- 0-4000 rpm; 3.5 amp motor

- 1/4" Capacity
- Trigger Speed Control, reversing
- All ball and roller bearings
- Heavy-Duty Industrial Chuck
- Lightweight, Compact

HEAVY-DUTY HOLE-SHOOTER

0222-1 0228-1

- 0-1000 rpm; 3.5 amp motor

0230-1

- 0-1700 rpm; 3.5 amp motor

- 3/8" capacity
- Trigger Speed Control, reversing
- All ball and roller bearings
- Heavy-Duty Industrial Chuck
- Lightweight, Compact

HEAVY-DUTY MAGNUM® HOLE-SHOOTER

0124-1

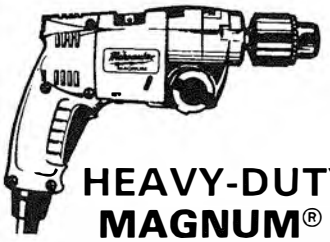
- 1/4" capacity
- 0-2000 rpm; 5.4 amp motor

0224-1

- 3/8" Capacity
- 0-1200 rpm; 5.4 amp motor

- Trigger Speed Control, reversing
- Quik-Lok cord-easy detachment
- Exclusive Quick change brush cartridge system
- All ball and roller bearings
- Heavy-Duty industrial chuck

Milwaukee Power Tools



HEAVY-DUTY MAGNUM® HOLE-SHOOTER

0234-1

- 0-850 rpm; 5.4 amp motor

0244-1

- 0-600 rpm; 5.4 amp motor

- 1/2" Capacity
- Trigger Speed Control, reversing
- Quik-Lok cord-easy detachment
- Exclusive Quick change brush cartridge system
- All ball and roller bearings
- Heavy-Duty industrial chuck

HEAVY-DUTY CLOSE QUARTER DRILL

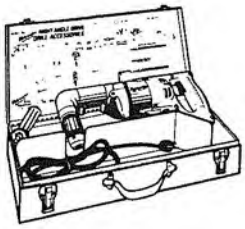
0375-1

- 3/8" Capacity
- Variable speed 0-1300 rpm

0379-1

- 1/2" Capacity
- Variable speed 0-750 rpm

- 3.5 amp motor
- 55° angled chuck for easy access to tight places
- Double Insulated
- Ideal for general maintenance
- Lightweight, compact-only 3.5 lbs.



HEAVY-DUTY RIGHT ANGLE DRILL KIT

3102
PLUMBER'S KIT

- Low 335 rpm; High 750 rpm

3202
PLUMBER'S KIT

- Low 230 rpm; High 525 rpm

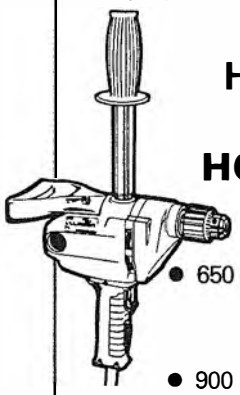
3002-1
ELECTRICIAN'S KIT

- Low 400 rpm; High 900 rpm

3107-1
VARIABLE SPEED KIT

- Low 0-335 rpm; High 0-750 rpm
- 8' Quik-Lok cord standard. 25' length available.

- 1/2" capacity in steel, handles up to a 2-9/16" selfeed bit.
- Reversing
- Powerful 4.5 amp motor
- Head and handle swivel 360° Tight locking in any position
- Includes steel carrying case and accessories for installing/removing right angle head
- Ideal for drilling between joists and other hard to reach areas.



HEAVY-DUTY COMPACT HOLE-SHOOTER

1610-1

- 650 rpm

1630-1

- 900 rpm

1660-1

- 450 rpm

- 1/2" capacity in steel
- Reversing, 7 amp
- Powerful, yet compact
- Pipe handle is removable for close quarter drilling

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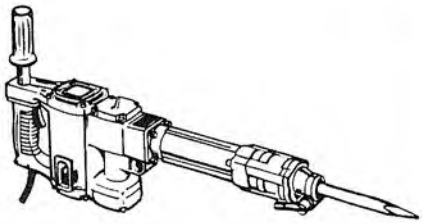
HEAVY-DUTY SPECIAL SCREW-SHOOTER 6798-1

- For driving self-drilling, self-tapping fasteners.
- Trigger speed control, reversing.
- 0-2500 rpm. 5.0 amp.
- Non-marring locators.
- Positive drive clutch engages when pressure is applied.

HEAVY-DUTY DRYWALL SCREW-SHOOTER 6747-1

- 5.0 amp
- Grounded
- Trigger speed control, reversing
- 0-2500 rpm
- Minimum offset for close quarter work
- Simple positive depth adjustment
- Lightweight, compact, balanced



HEAVY-DUTY DEMOLITION HAMMER 5332

- For fast breakup of concrete, asphalt, clay, compacted dirt.
- 2000 blows per minute. 13 amp
- Smooth operating to reduce fatigue.
- Handles a wide range of hammer accessories.
- Includes steel carrying case, side handle and grease.

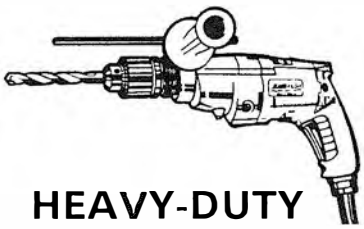
Milwaukee Power Tools

HEAVY-DUTY HAMMER-DRILLS 5397-1

- Includes hammer-drill, steel carrying case and four percussion carbide tip bits.

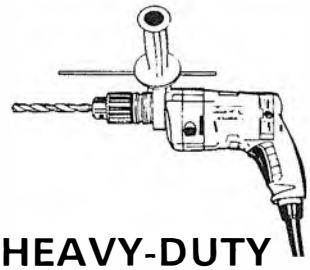
5392-1

- 3/8" capacity
- Trigger speed control—reversing
- 0-2500 rpm. 0-50,000 bpm, 5.0 amps
- Compact, lightweight, ideal for overhead drilling.
- Impact resistant, non-conductive motor housing and handle.
- For drilling, in concrete/masonry and drilling without hammering in wood/metal.



HEAVY-DUTY MAGNUM® HAMMER-DRILL 5370-1 5371-1

- 1/2" capacity
- Trigger speed control—reversing
- Two speed ranges: low (0-1000 rpm, 0-20,000 bpm), and high (0-3600 rpm, 0-72,000 bpm)
- 5371-1 KIT also includes steel carrying case and four percussion carbide tip bits.
- Quik-Lok detachable cord
- Removable brush cartridge—change brushes in less than one minute.

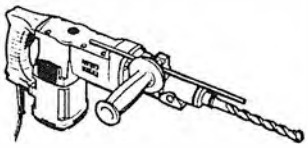


HEAVY-DUTY MAGNUM® HAMMER-DRILL 5372-1 5373-1

- 3/8" capacity
- Variable speed control—reversing 0-3500 rpm and 0-70,000 bpm
- 5373-1 KIT also includes steel carrying case and four percussion carbide tip bits.

5374-1 5375-1

- 1/2" capacity
- Variable speed control—0-2500 rpm and 0-50,000 bpm
- 5375-1 KIT also includes steel carrying case and four percussion carbide tipped bits.
- Quik-Lok detachable cord
- Removable brush cartridge—change brushes in less than one minute



HEAVY-DUTY 1-1/2" ROTARY HAMMER 5347 5348

- Includes steel carrying case, side handle and depth gauge.
- 5348 KIT also includes an assortment of bits and hammer tools.
- 1-1/2" spline drive carbide tipped bit capacity.
- 6" diameter capacity in concrete/masonry with percussion core bits.
- 4100 bpm, 500 rpm, 8.5 amps
- Fast, lightweight, powerful—13-1/2 lbs.
- Stop rotation control allows hammer action only...set self drilling tooth anchors up to 7/8".

Same day color match - In house painting

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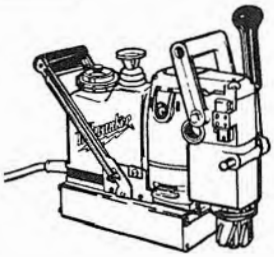
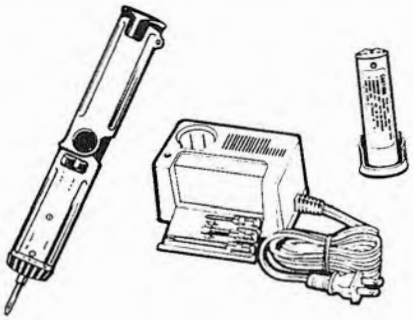


HEAVY-DUTY STEEL HAWG 4240

- Super strong drill press cuts 1/2" to 2" diameter holes in any ferrous material up to 1" thick
- Permanent magnet holds securely on as thin as 1/8" steel
- No electricity needed to maintain holding power
- Self-contained, automatic pumping system provides proper cooling and lubrication with proper flow of Hawg Wash.
- Portable—only 35 lbs. and 16" long
- Hi/Lo Speed Selector—500 rpm or 1000 rpm
- Quick Release Spindle for fast cutter change, no keys or wrench required
- Quick Change Steel Hawg cutters, available in 26 sizes from 1/2" to 2" diameters, require no prepunching or pilot holes.



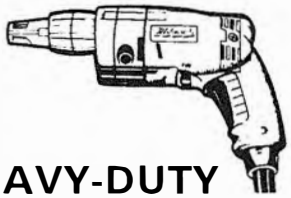
HEAVY-DUTY CORDLESS SCREWDRIVER 6539-1

- Includes screwdriver, battery pack and charger
- 190 rpm, 2.4 volts
- Reversing, 6 position adjustable clutch
- Adjustable swivel handle for tight applications.
- 1 hour 120 volt Fast Charge
- 12 volt (automotive) charger optional

Milwaukee Power Tools

HEAVY-DUTY CORDLESS SCREWDRIVER KIT 6540-1

- Includes screwdriver, battery pack, charger, chuck attachment, driver/drill bit set No. 48-30-0101 and high-impact, rust-proof polyethylene carrying case
- 190 rpm, 2.4 volts
- Reversing, 6 position adjustable clutch
- Adjustable swivel handle for tight applications.
- 1 hour 120 volt Fast Charge
- 12 volt (automotive) charger optional



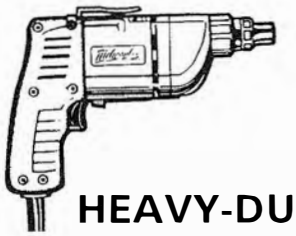
HEAVY-DUTY MAGNUM® DRYWALL SCREW-SHOOTER 6749-1

- 0-2500, 5.4 amps
- Trigger speed control, reversing

6754-1

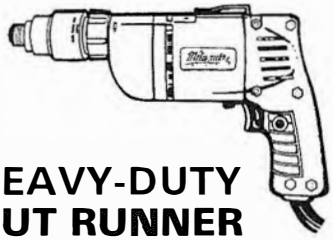
- 0-4000 rpm, 5.4 amps.
- Trigger speed control, reversing.

- Exclusive snap action clutch.
- Quik-lok detachable cord.
- 8' cord standard length, 25' lengths available.
- Removable brush cartridge-change brushes in less than one minute.



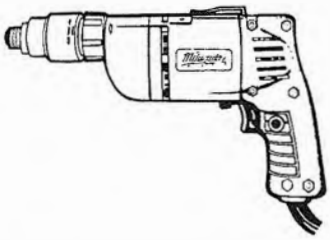
HEAVY-DUTY SCREW-SHOOTER 6543-1

- 0-1000 rpm, 5.0 amps
- Trigger speed control, reversing
- For driving wood screws.
- Positive drive clutch.



HEAVY-DUTY NUT RUNNER SCREW-SHOOTER 6583-1

- 0-1000 rpm, 5.0 amp
- Trigger speed control, reversing.
- For machine and sheet metal screws and nuts.
- Adjustable torque release clutch.
- Quick release bit holding mechanism— no bit guide needed



HEAVY-DUTY SCREW-SHOOTER 6783-1

- 0-2500 rpm; 5.0 amp
- Trigger speed control, reversing.
- For driving self-drilling, self-tapping fasteners.
- Adjustable torque release clutch.
- Quick release bit holding mechanism— no bit guide needed

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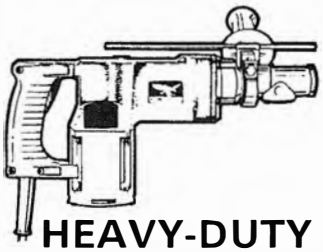
HEAVY-DUTY HAWK 1" SDS ROTARY HAMMER

5362-1 5365-1

- Includes steel carrying case, side handle and depth gauge.
- 5365-1 KIT also includes 7 SDS bits from 3/16" — 5/8" diameter.
- Universal Drive System accepts up to 1" diameter SDS bits.
- 1" solid bit capacity in concrete; 3-1/2" thin wall core bit capacity
- 0-900 rpm Reversing, 0-4500 bpm
- Powerful 6 amp motor
- Lightweight — 7-1/2" lbs. and compact-14 in. long
- Two modes of operation — hammer-drilling or rotation only



HEAVY-DUTY EAGLE 1-1/2" ROTARY HAMMER

5341 5342

- 4" diameter capacity in concrete/ masonry with percussion core bits
- Fast — 4100 bpm, 600 rpm

5352 5353

- 6" diameter capacity in concrete/ masonry with percussion core bits
- Variable Speed: 0-4100 bpm, 0-500 rpm

- Includes steel carrying case, side handle and depth gauge.
- 5342 KIT and 5353 KIT also include an assortment of bits and hammer tools.
- 1-1/2" spline drive carbide tipped bit capacity
- Powerful 8.5 amp — Lightweight 13 lbs.
- Can be used for light demolition work with Bull Points and Chisels

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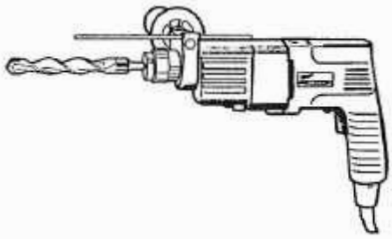
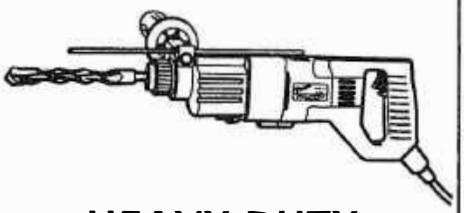


HEAVY-DUTY FALCON 3/4" SDS ROTARY HAMMER

5366-1 5367-1

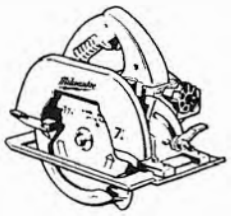
- 3/4" Solid, 1-3/4" Core Bit Capacity
- Two modes of operation: Hammer with Rotation or Rotation only.
- Includes steel carrying case, side handle and depth gauge. 5367-1 includes the above plus 5 carbide-tipped SDS bits.
- Fast, lightweight, powerful.
- Variable Speed 0-1100 rpm, 0-5000 bpm, reversing, 6 amps.
- Uses SDS bits.



HEAVY-DUTY FALCON 3/4" SDS ROTARY HAMMER

5368-1

- Includes steel carrying case, side handle and depth gauge.
- 3/4" Solid; 1-3/4" Core Bit Capacity
- Two modes of operation: Hammer with Rotation or Rotation only.
- Fast, lightweight, powerful.
- Variable Speed 0-1100 rpm, 0-5000 bpm, reversing, 6 amps.
- Uses SDS bits



HEAVY-DUTY CIRCULAR SAW

6367

- 7-1/4" capacity
- 13 amp, 5800 rpm
- Heavy-Duty steel shoe
- Double-Insulated
- Spindle lock for fast, easy blade changes
- One knob adjustment for depth of cut; one lever adjustment angle of cut
- Strong, non-conductive glass reinforced nylon housing and handle.
- Quick return, heavy-duty, safety telescoping guard.
- Clear line sighting.
- Includes combination/rip saw blade and 9/16" wrench.

HEAVY-DUTY CIRCULAR SAW

6365

- Includes Combination/Rip saw blade and 9/16" wrench

6366

- Includes carbide tipped framing/ rip saw blade, 9/16" wrench and rip fence

6368

- Includes carbide tipped framing/ rip saw blade, 9/16" wrench, rip fence and steel carrying case

- 7-1/4" capacity
- 13 amp 5800 rpm
- Rigid, lightweight aluminum shoe
- Spindle lock for fast, easy blade changes
- Lever adjustment for setting angle of cut
- Strong, non-conductive glass reinforced nylon housing and handle.
- Quick return, heavy-duty, safety telescoping guard.
- Clear line sighting.

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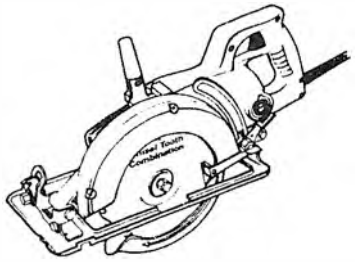


HEAVY-DUTY WORM DRIVE CIRCULAR SAW

6377

- 7-1/4" capacity

6378

- 8-1/4" capacity

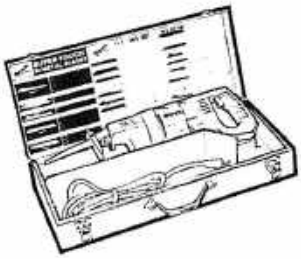
- 15 amp, 4400 rpm
- One knob adjustment for depth of cut; one lever adjustment for angle of cut.
- Strong, non-conductive glass reinforced nylon housing and handle.
- Quick return, heavy-duty, safety telescoping guard.
- Clear line sighting.
- Includes combination/rip saw blade and 9/16" wrench.
- Spindle lock for fast, easy blade changes.

HEAVY-DUTY 7-1/4" CIRCULAR SAW WITH ELECTRONIC BRAKE

6369

- Electronic Brake stops blade in LESS THAN 2 SECONDS!
- 13 amps. 5800 rpm.
- Rigid, lightweight aluminum shoe.
- Strong, non-conductive glass reinforced nylon housing and handle.
- Quick return, heavy-duty, safety telescoping guard.
- Clear line sighting.
- Includes carbide tipped framing/rip saw blade, 9/16" wrench.

Milwaukee Power Tools



HEAVY-DUTY SAWZALL®

6507

- 8' Quik-Lok cord for easy field replacement
- Includes 7 piece Bi-Metal blade assortment, socket wrench and holder, extra blade clamp/screw, and steel carrying case
- Variable speed in two speed ranges 0-2400 and 0-1700 spm.
- Handle designed for greater operator comfort and control.
- Rear positioned cord for easier plunge cutting.

HEAVY-DUTY SAWZALL®

6508

- Includes 7 piece Bi-Metal blade assortment, socket wrench and holder, extra blade clamp/screw, and steel carrying case.
- Variable speed in two speed ranges 0-2400 and 0-1700 spm.
- Handle designed for greater operator comfort and control.
- Rear positioned cord for easier plunge cutting.

Can't Find It? Call us – We'll Find It For You!

HEAVY-DUTY SAWZALL®

6531

- Includes 7 piece Bi-Metal blade assortment, socket wrench and holder and extra blade clamp screw.
- Two speeds—2400 or 1700 spm.
- High speed for roughing in wood and low speed for metal cutting.
- Handle designed for greater operator comfort and control.
- Rear positioned cord for easier plunge cutting.

HEAVY-DUTY SUPER SAWZALL®

6527

- Fast, Smooth, High Performance
- Patented counter-balance mechanism reduces vibration for extra smooth operation.
- Long 1-1/4" Blade Stroke
- Patented shoe release lever easily adjusts shoe without tools.
- Dual range variable speed—0-2000 spm and 0-2800 spm
- 8' Quik-Lok cord for easy field replacement
- Includes 7 High Performance Super Sawzall blades, hex key, extra blade clamp/screw and steel carrying case
- Patented Rubber Boot is designed for operator comfort.
- Reversible blade for cutting upside down.

Milwaukee®

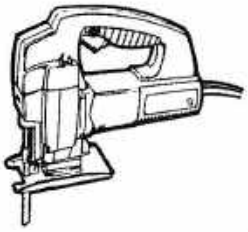
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382

(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

HEAVY-DUTY SUPER SAWZALL®

6528

- Fast, Smooth, High Performance
- Patented counter-balance mechanism reduces vibration for extra smooth operation.
- Long 1-1/4" Blade Stroke
- Patented shoe release lever easily adjusts shoe without tools.
- Dual range variable speed—0-2000 spm and 0-2800 spm
- Includes 7 High Performance Super Sawzall Blades, hex key, extra blade clamp/screw and steel carrying case
- Patented Rubber Boot is designed for operator comfort
- Reversible blade for cutting upside down

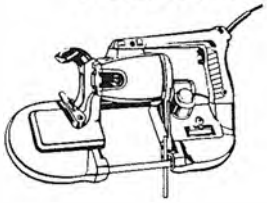


HEAVY-DUTY JIG SAW

6256

- Full 1" blade stroke for fast, efficient cutting
- Variable speed—trigger speed control 0-3100 spm.
- Double Insulated. 3.8 amp
- Top handle contoured for comfort and accurate control.
- Shoe-tilt adjusts up to 45° for angle cutting.
- Blade clamp designed for simple, fast blade changes.

Milwaukee Power Tools



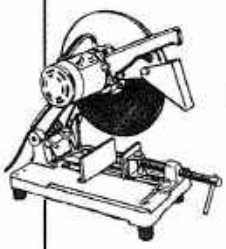
HEAVY-DUTY DEEP CUT BAND SAW

6230 6232

- Trigger speed control—0-350 s.f.p.m.
- 6232 includes steel carrying case

6236 6238

- Two Speed: 250 and 350 s.f.p.m.
- 6238 includes steel carrying case
- 6 amp
- Designed for use with standard 44-7/8" × 1/2" × .020 Bi-Metal Blades
- Large 4-3/4" capacity
- Excellent balance—straighter, more accurate cuts
- Gear drive mechanism is lubricated with grease—no oiling!



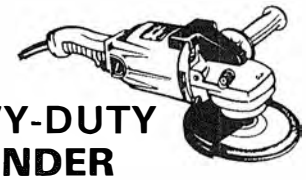
HEAVY-DUTY CHOP SAW

6165

- 12" abrasive wheel
- 4200 rpm
- 15 amps. Cuts pipe to 4", bar stock to 2-3/8", square stock to 4".

6170

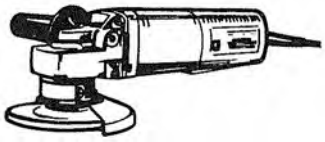
- 14" abrasive wheel
- 3350 rpm
- 15 amps. Cuts pipe to 5", bar stock to 2-9/16", square stock to 4-3/8".
- Efficiently cuts bundles of drywall studs.
- Fast cutting action in angle iron, pipe tubing, conduit, pvc and channels.



HEAVY-DUTY GRINDER

6098

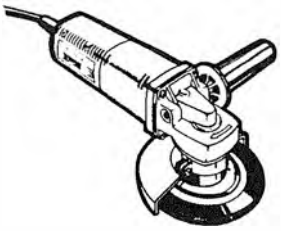
- 8000 rpm
- Powerful 3.5 H.P. 15 amp motor
- Controlled start—drastically reduces torque reaction when starting tool...extends gear, brush and motor life.
- Line lock-out feature...prevents tool from operating should current be restored to an interrupted line when switch is locked in the "on" position.
- Replaceable armature pinion gears for less costly repairs.
- Recessed spindle lock for quick accessory changes.
- Supplied with guard; order grinding wheel separately
- Not recommended for sanding



HEAVY-DUTY SANDER/GRINDER

6145

- 4-1/2" capacity
- 1/2"—13 Spindle Size
- Powerful—10,000 rpm
- Double insulated—5.5 amps
- Paddle switch allows for one hand operation
- Side handle mounts right or left
- One screw to adjust guard



HEAVY-DUTY SANDER/GRINDER

6141

- 5" capacity
- 5/8"—11 Spindle Size
- Powerful—10,000 rpm
- Double Insulated—5.5 amps
- Paddle switch allows for one hand operation.
- Side handle mounts right or left.
- One screw to adjust guard.

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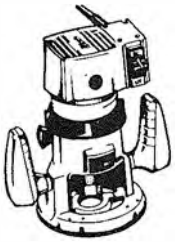


HEAVY-DUTY ROUTER 5620

- 23,000 rpm
- 1.00 H.P. 8 amp
- 1/4" — 3/8" collet capacity
- Powerful, lightweight-for extra heavy-duty jobs.
- Functional trigger-handle grouping.
- Accurate, simple depth adjustment
- Out-of-way electric cord.

Milwaukee Power Tools

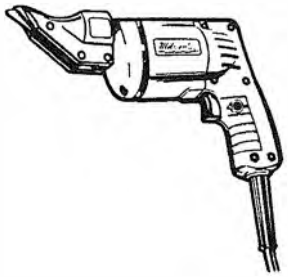
HEAVY-DUTY ROUTER 5660

- 24,500 rpm
- 1.5 H.P. 10 amp

5680

- 26,000 rpm
- 2.0 H.P. 12 amp

- 1/4"-3/8"-1/2" collet capacity.
- Powerful, lightweight, for extra heavy-duty jobs.
- Functional trigger-handle grouping.
- Accurate simple depth adjustment.
- Out-of-way electric cord.



HEAVY-DUTY SWIVEL HEAD SHEARS 6850

- Powerful 18 gauge capacity.
- 3.5 amp
- Cuts 15 feet per minute
- Cuts round holes...square holes...irregular holes.
- 360° swivel head.
- Head assembly designed for easy servicing.
- Spindle speed 0-2500 rpm

DEWALT
High Performance Industrial Tools

The DeWalt Tool Store Cordless Tools

18.0V 1/2"(13mm) Heavy Duty Cordless Drill/Driver/ Hammerdrill Kit

DW998K

- Dual Range VSR 0-650/0-1850
- 0-7,150/0-20,350 BPM Hammer Action for Masonry Drilling
- Fan Cooled Motor with Electric Brake and Replaceable Brushes
- Anti-slip Soft Comfort Grip and Keyless Chuck
- Adjustable Clutch Torque Control
- Includes 1 Hour Charger, XR2 PACK® Battery and Heavy Duty Carrying Case

18.0V 1/2"(13mm) Heavy Duty Cordless Drill/Driver/ Hammerdrill Kit

DW997K

- Dual Range VSR 0-650/0-1850
- 0-7,150/0-20,350 BPM Hammer Action for Masonry Drilling
- Fan Cooled Motor with Electric Brake and Replaceable Brushes
- Anti-slip Soft Comfort Grip and Keyless Chuck
- Adjustable Clutch Torque Control
- Includes 1 Hour Charger, XR2 PACK® Battery and Heavy Duty Carrying Case

18.0V 1/2"(13mm) Heavy Duty Cordless Drill/ Driver Kit

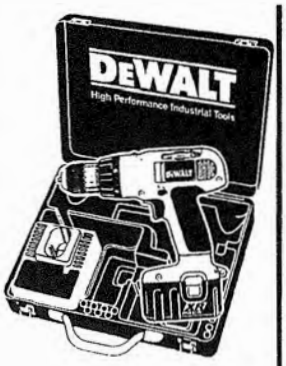
DW995K

- Dual Range VSR 0-450/0-1400
- Fan Cooled Motor with Electric Brake and Replaceable Brushes
- Anti-slip Comfort Grip
- Adjustable Clutch Torque Control
- Includes 1 Hour Charger, XR2 PACK® Battery and Heavy

CORDLESS TOOLS

DEWALT
High Performance Industrial Tools

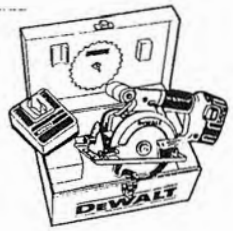
14.4 Volt 3/8" Heavy Duty Adjustable Clutch Cordless Driver/Drill Kit



DW991K

- Dual Range VSR 0-450/0-1400 RPM
- High Performance Fan Cooled Motor with Replaceable Brushes
- XR PACK™ Extended Run-Time Battery
- Anti-Slip Comfort Grip
- Heavy Duty Keyless Chuck with Electric Brake
- Includes 1 Hour Charger, XR PACK™ Battery, and Steel Case

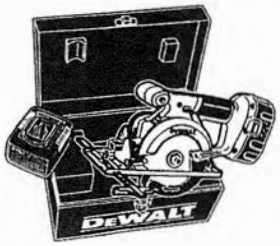
14.4V 5-3/8" (136mm) Blade Heavy Duty Cordless Saw Kit



DW935K

- 3000 rpm for Fast Cutting
- Cuts 2X Materials in a Single Pass
- Blade Located on Left Side for Better Visibility
- Fan Cooled Motor with Replaceable Brushes
- 50° Bevel
- Includes Carbide Blade, Steel Carrying Case, Charger, XR PACK™ Extended Run-Time Battery Pack

18.0V 5-3/8" (136 mm) Blade Heavy-Duty Cordless Saw Kit



DW936K

- 3200 RPM for Fast Cutting
- Rip Fence Included for Increased Ripping Accuracy
- Blade Located on Left Side for Better Visibility
- Fan Cooled Motor with Replaceable Brushes
- 50° Bevel
- Includes 1 Hour Charger, Carbide Blade, XR PACK* Battery and Heavy Duty Carrying Case

Heavy Duty Steel Kit Box Cordless Saw

DW9359

- Rugged, Heavy Duty Steel Construction
- Self Contained Storage Compartments for Accessories
- Oven Baked Black Paint with Durable Textured Finish
- Full Length Piano Hinged Top
- Fits DW930, DW930K, DW935, DW935K

18.0V 1 Hour Heavy Duty Battery Charger

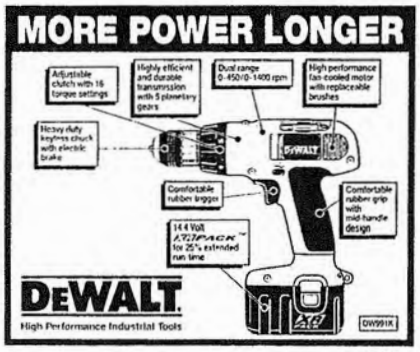
DW9108

- 120 Volts, AC only, 2.5 Amps
- Accepts the following DEWALT Battery Packs : DW9095, DW9091, DW9072, DW9071, DW9070, DW9062, DW9061, and DW9060
- Thermal protection for hot packs with automatic reset
- Maintenance Charge keeps Battery Pack 100% ready for work
- Charges Battery Pack in 1 hour or less
- Diagnostic System detects defective packs

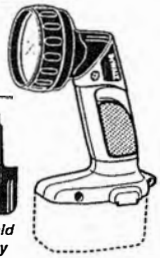
15 Minute Heavy Duty Quick Charger

DW9115

- 120 Volts, AC Only, 2.0 Amps
- For all DeWalt Battery Packs 7.2 – 14.4 Volts
- Charges Battery Packs in 15 Minutes or Less
- Diagnostic System Detects Defective Packs



14.4 Volt Cordless Flashlight



DW906

- 90° Swiveling Head
- Spare Bulb Inside Lens Cover
- Compact Ergonomic Design
- Up To 3 Hours Continuous Run-Time
- Battery and Charger Sold Separately

Battery Sold Separately

12.0 Volt Heavy Duty Battery Pack

DW9071

- High Capacity Battery–25% More Run-Time than Standard 12.0V Batteries
- Long Life-1,200 cycles
- No Memory Effect
- 2 Year Warranty

14.4 Volt Heavy Duty Battery Pack

DW9091

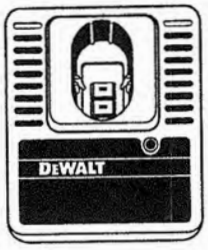
- High Capacity Battery–25% More Run-Time than Standard 14.4V Batteries
- Long Life-1,200 cycles
- No Memory Effect
- 2 Year Warranty

18.0V Heavy Duty XR2 PACK® Extended Run-Time Battery Pack

DW9095

- High Capacity Battery - 25% More Run-Time than Standard Batteries (1.7) Amp Hours
- Long Life - 1,200 Recharging Cycles
- Designed for Repetitive Charging
- No Memory Effect
- Full 2 Year Warranty

1 Hour Heavy Duty Fast Charger



DW9106

- 120 Volts, AC Only, 2.0 Amps
- For all DeWalt Battery Packs 7.2 – 14.4 Volts
- Automatic Start, No Resetting for Hot Packs
- Maintenance Charge keeps Battery Pack 100% Ready for Work
- Charges Battery Packs in 1 hour or Less
- Diagnostic System Detects Defective Packs

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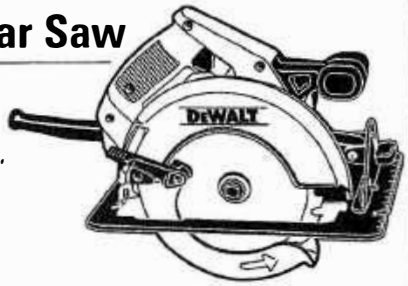
POWER TOOLS

DEWALT
High Performance Industrial Tools

7 1/4" Heavy Duty Lightweight Circular Saw

DW359

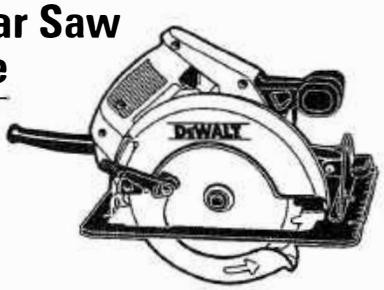
- Powerful 13.0 Amp AC/DC Motor
- Lightweight at 10.9 lbs.
- Newly Designed High Strength, Low Friction, Ribbed Aluminum Shoe
- 50° Bevel Capacity
- Carbide Saw Blade Included



7 1/4" Heavy Duty Lightweight Circular Saw with Electric Brake

DW362

- Powerful 15.0 Amp AC/DC Motor
- Lightweight at 10.9 lbs.
- Newly Designed High Strength, Low Friction, Ribbed Aluminum Shoe
- 100% Ball and Roller Bearing Construction
- Electric Brake



12" Mitersaw with Electric Brake

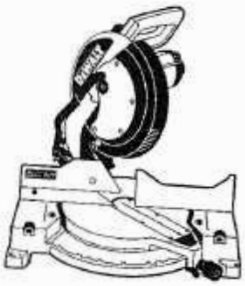
DW704

- High fence allows 5 1/4" trim materials to be mitered standing vertically.
- Cuts 2x8 at 90°, 2x6 at 45°, 4x4 at 45°.
- Powerful 2000-watt, 13-amp motor.
- Weighs only 36 lbs., carries easily.
- Precision stainless steel miter scale.

12" Compound Mitersaw with Electric Brake

DW705

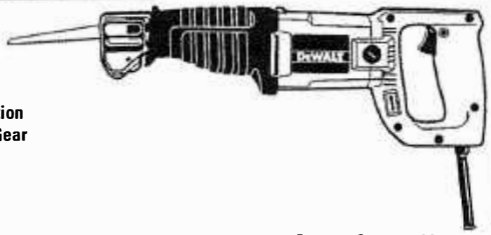
- High fence allows large trim materials to be mitered standing vertically.
- Fence slides to permit compound cuts.
- Cuts 2x8 at 90° and 45° bevel; 2x6 at 45° miter and 45°x45° compound; 4x4 at 45°.
- Powerful 2000-watt, 13-amp motor.
- Weighs only 38 lbs., carries easily.
- Precision stainless steel miter scale.



Heavy Duty Reciprocating Saw Kit

DW305K

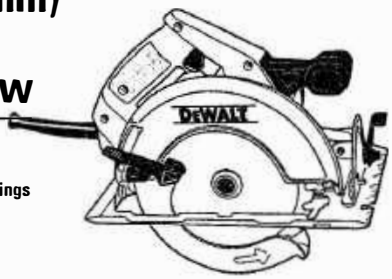
- 6.5 Amps
- 0-1800/2400 SPM Dial Control
- 1-1/8" Stroke Length
- Ball and Roller Bearing Construction
- Low Vibration Counterweighted Gear
- Includes Steel Carrying Case



7-1/4" (184mm) Heavy Duty Circular Saw

DW357

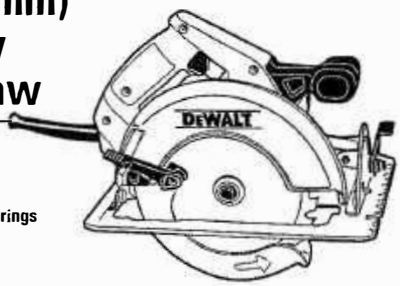
- 13.0 Amps, 5500 RPM
- 100% Bali and Roller Bearings
- 50° Bevel Capacity



7-1/4" (184mm) Heavy Duty Circular Saw

DW361

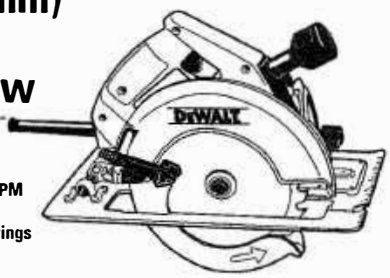
- Electric Brake
- 14.0 Amps, 5800 RPM
- 100% Ball and Roller Bearings
- 50° Bevel Capacity



7-1/4" (184mm) Heavy Duty Circular Saw

DW364

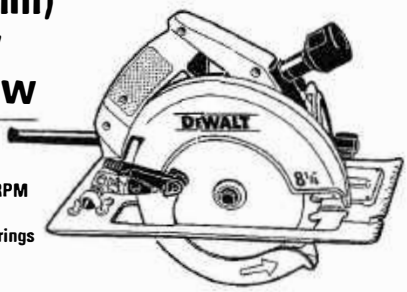
- Electric Brake, 13.0 Amps
- 50° Bevel Capacity 5800 RPM
- Rear Pivot Adjustment
- 100% Ball and Roller Bearings



8 1/4" (210mm) Heavy Duty Circular Saw

DW384

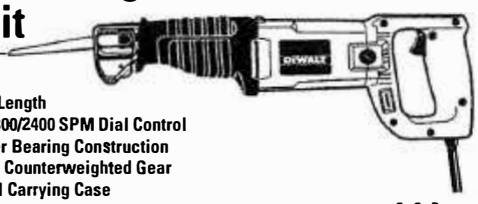
- Electric Brake, 13.0 Amps
- 50° Bevel Capacity, 5800 RPM
- Rear Pivot Adjustment
- 100% Ball and Roller Bearings



Heavy Duty Reciprocating Saw Kit

DW306K

- 1-1/8" Stroke Length
- 8.0 Amps, 0-1800/2400 SPM Dial Control
- Ball and Roller Bearing Construction
- Low Vibration Counterweighted Gear
- Includes Steel Carrying Case

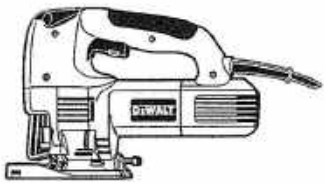


Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

POWER TOOLS

DEWALT
High Performance Industrial Tools

Heavy Duty Jig Saw Kit



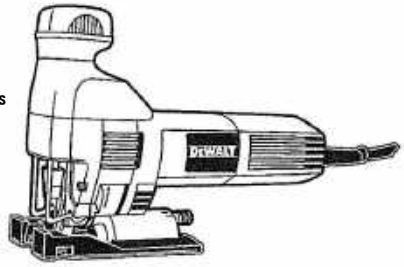
DW321K

- Variable Speed
- 5.8 Amps, 500-3100 SPM
- Keyless Blade Change and Shoe Bevel
- Ball and Roller Bearing Construction
- 1" Stroke
- Includes Assorted Blades and Heavy Duty Carrying Case

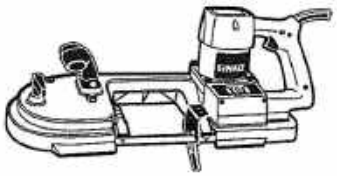
Heavy Duty Jig Saw Kit

DW323K

- 5.8 Amps, 500-3100 SPM
- Accepts T-shank and Universal Blades
- Tool Free Blade Change
- Tool Free Shoe - Bevels To 45° On Both Sides & Retracts Flush To Housing
- Adjustable Dust Blower
- Variable Speed
- Orbital Action
- Includes 3 Assorted Cobalt Steel Blades and Heavy Duty Carrying Case



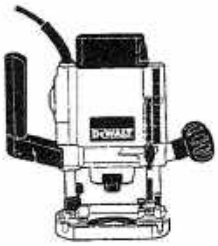
VS Portable Band Saw Kit



DW328K

- Variable Speed 100-265 SFPM for Cutting a Variety of Materials
- 4-3/4" x 4-1/2" Rectangular, 4-3/4" Round Cutting Capacity
- 6 Amp, 120V AC Motor
- Tracking Control to Adjust to Various Blade Conditions
- Light-weight for Ease of Operation

1 1/4 HP Heavy Duty Electronic Plunge Router



DW615

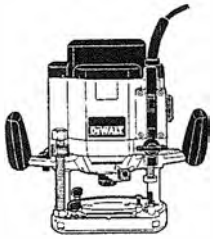
- 8.0 Amps
- Variable Speed, 8,000-24,000 RPM
- Electronic Feedback Speed Control
- 1/4" Collet Capacity, Spindle Lock Button
- Plunge Action
- 100% Ball Bearings

3 HP Heavy Duty Electronic Plunge Router

DW625

- 15.0 Amps, Plunge Action
- Variable Speed Electronic Feedback, 8,000-22,000 RPM
- Includes 1/4" and 1/2" Collets
- Micro-fine Depth Adjuster
- 100% Ball Bearings
- Spindle Lock Button

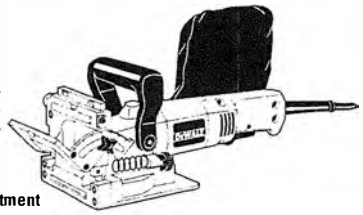
3 HP Heavy Duty Plunge Router



DW624

- 15.0 Amps, 22,000 RPM
- Includes 1/4" and 1/2" Collets
- Micro-fine Depth Adjustor
- Plunge Action
- 100% Ball Bearing Construction
- Spindle Lock Button

Heavy Duty Plate Joiner Kit



DW682K

- 6.5 Amps, 10,000 RPM
- Rack and Pinion Fence Height Adjustment
- Integral Fence Tilts 0-90°
- Preset Depth Stops for #0, #10, and #20 Biscuits
- Retractable Steel Anti-Slip Pins
- Includes 6T Carbide Blade, Dustbag, and Steel Carrying Case

1/2" (13mm) Heavy Duty Impact Wrench

DW290

- 7.5 Amps, 2100 RPM
- Reversing, 2700 Impacts/Min.
- Detent Pin Anvil
- Ball Bearing Construction

FOR COMPLETE DEWALT TOOL LISTING CONTACT YOUR FSI REPRESENTATIVE

Communication is the key to FSI's success

POWER TOOLS

DEWALT
High Performance Industrial Tools

1/4" (6mm) Heavy Duty Drill

DW166

- 5.4 Amps, 0-4000 RPM
- Variable Speed, Reversing
- 100% Ball & Roller Bearings
- Die Cast Metal Gear Housing
- Dust Sealed Trigger Switch
- Includes Chuck Key & Holder

3/8" (10 mm) Heavy Duty Drill

DW101

- Variable Speed Reversing
- 4.5 Amps, 0-2500 RPM
- Ball Bearing Construction
- Built In 2-Way Level

3/8" (10mm) Heavy Duty Drill

DW102

- Variable Speed Reversing
- 4.5 Amps, 0-1200 RPM
- Ball Bearing Construction
- Double Gear Reduction

3/8" (10mm) Heavy Duty Drill

DW103

- Variable Speed Reversing
- 5.4 Amps, 0-1200 RPM
- 100% Ball and Roller Bearings
- Heavy Duty Chuck

3/8" (10mm) Heavy Duty Drill

DW106

- Heavy Duty Keyless Chuck
- Variable Speed Reversing
- 4.0 Amps, 0-2500 RPM
- 100% Ball Bearings
- Built in 2-Way Level

3/8" (10mm) Heavy Duty Drill

DW108

- Heavy Duty Keyless Chuck
- Variable Speed Reversing
- 5.4 Amps, 0-1200 RPM
- 100% Ball and Roller Bearings

1/2" (13mm) Heavy Duty Drill

DW110

- Variable Speed Reversing
- 5.4 Amps, 0-600 RPM
- 100% Ball and Roller Bearings
- Triple Gear Reduction

1/2" (13mm) Heavy Duty Drill

DW111

- Variable Speed Reversing
- 5.4 Amps, 0-900 RPM
- 100% Ball and Roller Bearings
- Triple Gear Reduction

1/2" (13 mm) Heavy Duty Drill

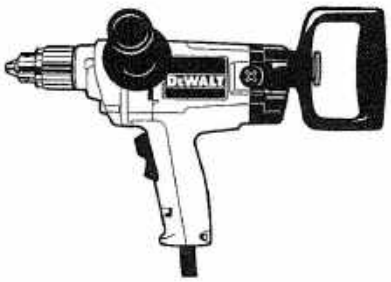
DW116

- Heavy Duty Keyless Chuck
- Variable Speed Reversing
- 5.4 Amps, 0-600 RPM
- 100% Ball and Roller Bearings
- Triple Gear Reduction
- 360° Side Handle

1/2" (13 mm) Heavy Duty Drill

DW117

- Heavy Duty Keyless Chuck
- Variable Speed Reversing
- 5.4 Amps, 0-900 RPM
- 100% Ball and Roller Bearings
- Triple Gear Reduction
- 360° Side Handle



1/2" (13mm) Heavy Duty Spade-Handle Drill

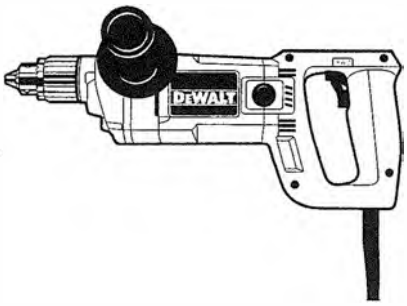
DW130

- Reversing
- 7.0 Amps, 450 RPM
- 100% Ball and Roller Bearings
- Triple Gear Reduction

POWER TOOLS

DEWALT
High Performance Industrial Tools

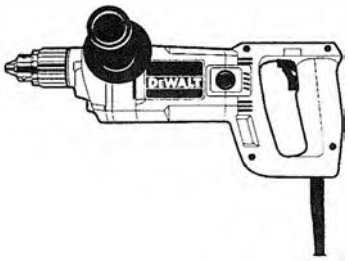
1/2" (13mm) Heavy Duty End-Handle Drill



DW140

- 7.0 Amps, 600 RPM
- Reversing
- 100% Ball and Roller Bearings
- Triple Gear Reduction

1/2" (13 mm) Heavy Duty End-Handle Drill



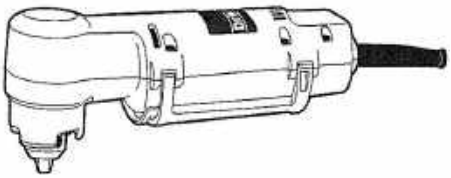
DW142

- 7.0 Amps, 900 RPM
- Reversing
- 100% Ball and Roller Bearings
- Triple Gear Reduction

3/8" (10mm) Heavy Duty Right Angle Drill

DW160

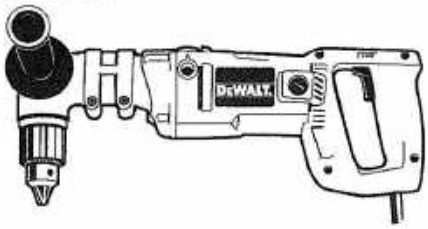
- 3.2 Amps, 1200 RPM
- Ball Bearing Construction
- Compact, Lightweight Design
- Paddle Switch
- Double Gear Reduction



1/2" (13mm) Right Angle Drill Kit

DW120K

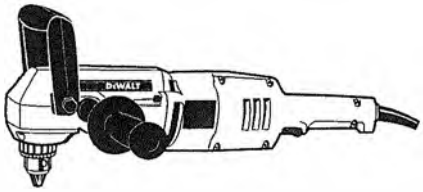
- 7.0 Amps, Reversing
- 3 Speed 400/600/900 RPM
- 100% Ball and Roller Bearings
- Includes Steel Carrying Case



1/2" (13mm) Heavy Duty Joist & Stud Drill Kit

DW124K

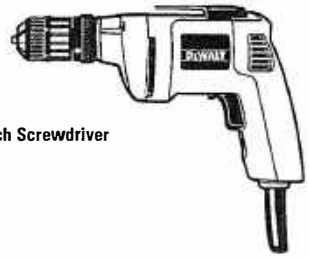
- 8.0 Amps
- 2 Speed 300/1200 RPM
- Mechanical Clutch In Low Speed
- 100% Ball and Roller Bearings
- Includes Steel Carrying Case



3/8" (10mm) Heavy Duty Screwdriver/Drill with Keyless Chuck

DW170

- 5.4 Amps, 0-1200 RPM
- Variable Speed Reversing
- 100% Ball & Roller Bearings
- Die Cast Metal Gear Housing
- Heavy Duty Keyless Chuck
- Converts from Drill to Positive Clutch Screwdriver



Heavy Duty Depth Sensitive Screwdriver

DW259

- Variable Speed Reversing
- 5.4 Amps, 0-2500 RPM
- 100% Ball and Roller Bearings
- Set and Forget Depth Sensitive Nosepiece
- 1/4" Hex Shank Drive

Heavy Duty Torque Adjustable Screwdriver

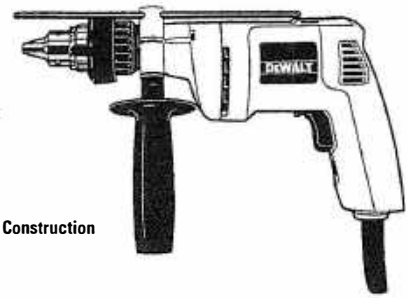
DW264

- Variable Speed Reversing
- 5.4 Amps, 0-2500 RPM
- 100% Ball and Roller Bearings
- Versa-Clutch® Torque Adjusting System
- 1/4" Hex Shank Drive

3/8" (10mm) Heavy Duty Hammerdrill

DW500K

- Variable Speed Reversing
- 5.0 Amps, 0-2500 RPM
- 0-50,000 BPM
- 100% Ball and Roller Bearing Construction
- Includes Steel Carrying Case



Same day color match - In house painting

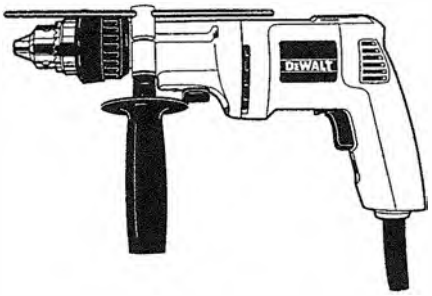
POWER TOOLS

DEWALT
High Performance Industrial Tools

1/2" (13mm) Heavy Duty Hammerdrill

DW510K

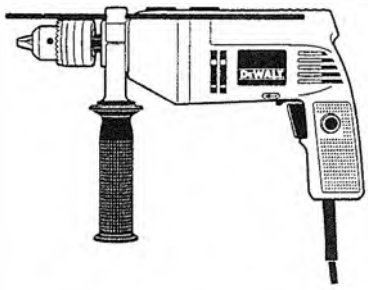
- Variable Speed Reversing
- 5.0 Amps, 0-1400/0-3100 RPM
- 0-22,000/0-49,600 BPM
- 100% Ball and RollerBearing Construction.
- Includes Steel Carrying Case



1/2" (13mm) Heavy Duty Hammerdrill

DW512

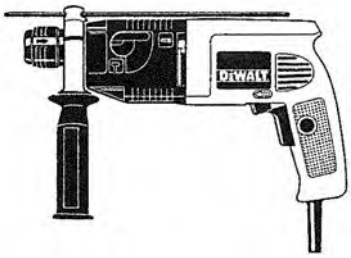
- Variable Speed Reversing
- 5.0 Amps, 0-1050/0-2700 RPM
- 0-12,750/0-32,300 BPM
- Ball and Roller Bearing Construction
- Includes Side Handle and Depth Rod



5/8" (16mm) Heavy Duty SDS Rotary Hammer Kit

DW523K

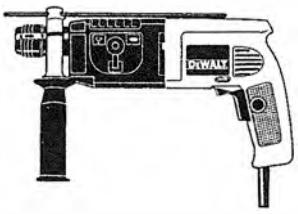
- 5.5 Amps, Variable Speed Reversing
- 0-1350 RPM/0-5000 Load BPM
- Ball and Roller Bearing Construction
- 5/8" Masonry Capacity
- Includes Side Handle, Depth Rod, and Steel Carrying Case



3/4" (19mm) Heavy Duty SDS Rotary Hammer Kit

DW514K

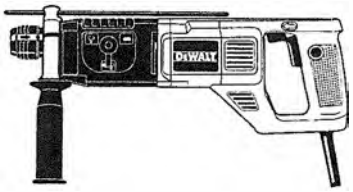
- 5.5 Amps, Variable Speed Reversing
- 0-1100 RPM/0-4100 Load BPM
- Ball and Roller Bearing Construction
- 3/4" Masonry Capacity
- Light Chiseling/Chipping Capacity
- Includes Side Handle, Depth Rod, and Steel Carrying Case



1" (25mm) Heavy Duty SDS Rotary Hammer Kit

DW557K

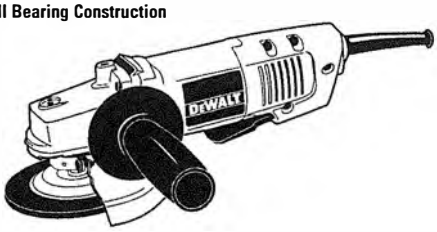
- 6.9 Amps, Variable Speed Reversing
- 0-980 RPM/0-3700 Load BPM
- Ball and Roller Bearing Construction
- 1" Masonry Capacity
- Chiseling/Chipping Feature
- Includes Side Handle, Depth Rod, and Steel Carrying Case



4-1/2" (115mm) Heavy Duty Mini Grinder

DW402

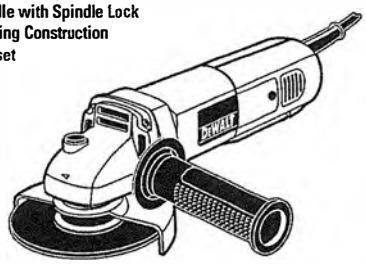
- 6.0 Amps, 10,000 RPM
- 5/8-11 Spindle with Spindle Lock
- Paddle Switch and 3 Position Handle
- Ball Bearing Construction



4-1/2" Heavy Duty Angle Grinder

DW406

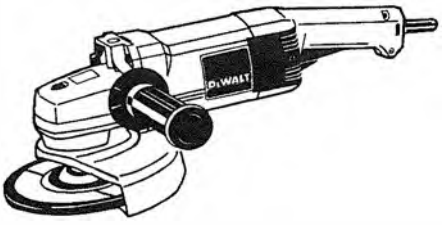
- 900 Watts Out, AC Motor
- 4-1/2" Wheel Capacity
- 5/8"-11 Spindle with Spindle Lock
- All Ball Bearing Construction
- Rubber Cordset



7" (180mm) Heavy Duty Angle Grinder

DW474

- 15.0 Amps, 6000 RPM
- 5/8-11 Spindle with Spindle Lock
- Ball Bearing Construction
- Heat Treated Steel Spiral Bevel Gears



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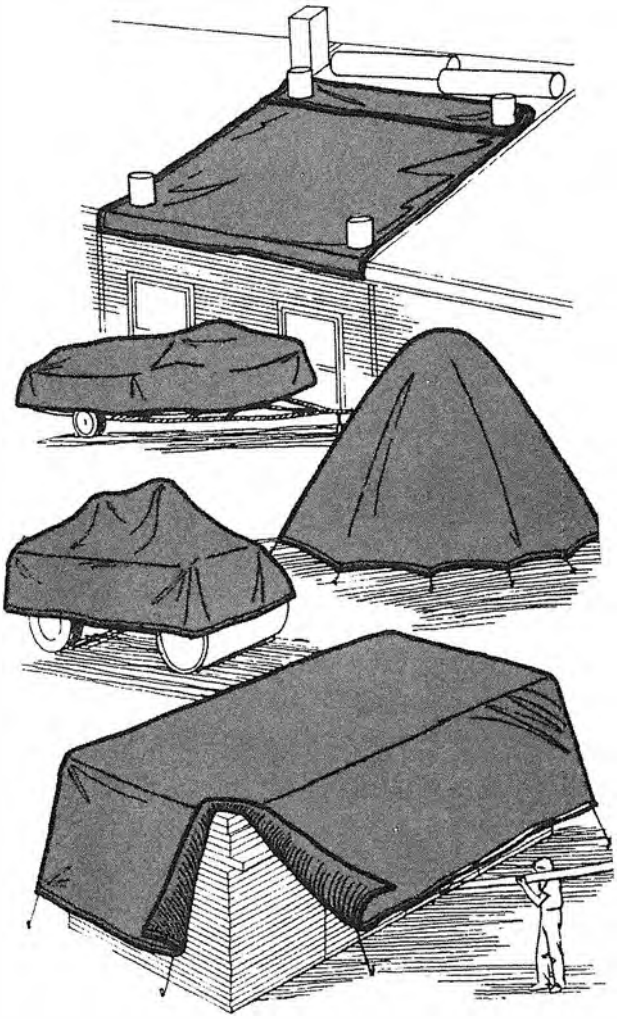
Blue 101 Poly Tarp

LONGER LASTING REINFORCED POLY TARP



FEATURES —

- Waterproof, Mildew-Resistant.
- Lightweight, Yet Strong & Flexible.
- Rip-Resistant Woven Polyethylene Fabric Coated on Both Sides.
- Heat-Sealed or Sewn Hems Reinforced with Rope to Minimize Grommet Pull-Out.
- Rust-Resistant Grommets Spaced 3-4 Feet Apart on All Sides.

SIZES

6 x 8	12 x 18	16 x 20	20 x 40	30 x 50
8 x 10	12 x 25	20 x 20	25 x 45	40 x 60
10 x 12	15 x 30	20 x 30	30 x 40	50 x 100

ALL TARPS ARE CUT FULL SIZE AND FINISH SLIGHTLY SMALLER DUE TO HEMS AND SEAMS

EACH TARP PACKED IN A POLY BAG WITH FABRIC SAMPLE ATTACHED TO OUTSIDE.

WE SELL POLYETHYLENE, NYLON AND MANILA ROPE

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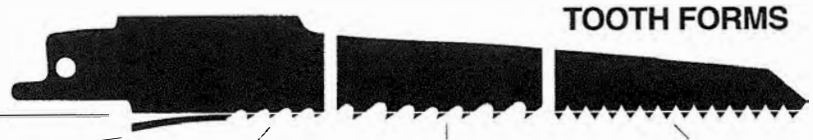
LENOX® LEADER OF THE PACK™

RECIPROCATING BLADES

BLADE CONSTRUCTION

TOOTH FORMS



FEATURES
- Bi-metal construction
- Matrix II type alloy high speed steel cutting edge (8% cobalt edge)
- Tooth hardness Rc 65-66
- Precision milled teeth
- 17° tooth back clearance angle 656R, 956R, 156R, 676RC
- Angled tang

ADVANTAGES
- Shatter resistant
- Shock resistant teeth
- High wear resistance
- High heat resistance
- More aggressive cut

BENEFITS
- Cuts through tough materials including nail-embedded wood
- Longer life
- Retains tooth sharpness longer
- Increases productivity
- Faster cutting

LENOX® LEADER OF THE PACK™

HEAVY-DUTY RECIPROCATING BLADES

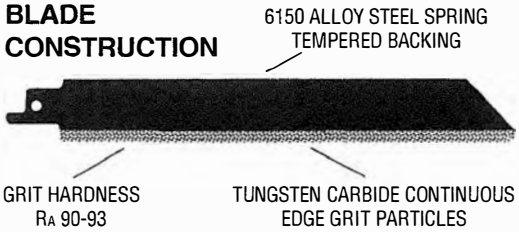
FEATURES
- Designed specifically for "rehabing" and demolition work
- 44% thicker than standard blades
- Wider than standard blades
- Unique tooth cutting angle

ADVANTAGES
- Stays rigid
- No vibrating from side to side
- Durable in wood or metal demolition work

BENEFITS
- Easy cutting
- Fast cutting
- More cuts from each blade
- Lower sawing costs

GRIT RECIPROCATING BLADES

BLADE CONSTRUCTION



FEATURES
- 6150 alloy steel spring tempered backing
- Tungsten carbide continuous edge grit particles
- Grit hardness RA 90-93
- Fits most popular reciprocating machines

ADVANTAGES
- Higher abrasion resistance than bi-metal blades
- Cuts certain materials more effectively than bi-metal blades, such as: soil pipe, cast iron, plywood, ceramic wall tile, brick, carbon, fiberglass, epoxies, plaster, melamines, cement, laminates, marble, and hardwood flooring

BENEFITS
- Reduces cost per cut
- Reduces downtime
- Increases productivity

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LENOX

RECIPROCATING BLADE SPECIFICATIONS

PRODUCT NUMBER				LENGTH x WIDTH x THICKNESS		TEETH PER INCH/ 25mm	SHAPE
5 PER VINYL POUCH	2 PER VINYL POUCH	BLISTER PACKED 1 PER CARD/5 CARDS PER PACK	BULK PACKED 50 PER BOX	INCHES	MILLIMETERS		
20572-656R		20573-S656R	20543-B656R	6 x 3/4 x .050	150 x 20 x 1.3	6	
20585-156R		20586-S156R	20546-B156R	12 x 3/4 x .050	300 x 20 x 1.3	6	
20582-956R		20587-S956R	20545-B956R	9 x 3/4 x .050	225 x 20 x 1.3	6	
20556-676RC		20557-S676RC		6 x 7/16 x .050	150 x 11 x 1.3	6	
20560-606R		20559-S606R	20536-B606R	6 x 3/4 x .035	150 x 20 x .9	6	
20575-634R		20574-S634R		6 x 3/4 x .035	150 x 20 x .9	4	
20562-610R		20561-S610R	20539-B610R	6 x 3/4 x .035	150 x 20 x .9	10	
20580-810R		20581-S810R	20544-B810R	8 x 3/4 x .050	200 x 20 x 1.3	10	
20520-314RC		20519-S314RC		3 x 1/4 x .032	75 x 6 x .8	14	
20583-110R		20584-S110R	20547-B110R	12 x 3/4 x .050	300 x 20 x 1.3	10/14	
20550-414R		20551-S414R	20526-B414R	4 x 3/4 x .035	100 x 20 x .9	14	
20564-614R		20565-S614R	20540-B614R	6 x 3/4 x .035	150 x 20 x .9	14	
20552-418R		20553-S418R	20527-B418R	4 x 3/4 x .035	100 x 20 x .9	18	
20566-618R		20567-S618R	20541-B618R	6 x 3/4 x .035	150 x 20 x .9	18	
20578-818R		20563-S818R		8 x 3/4 x .035	200 x 20 x .9	18	
20521-318RC		20522-S318RC		3 x 1/4 x .032	75 x 6 x .8	18	
20554-424R		20555-S424R	20528-B424R	4 x 3/4 x .035	100 x 20 x .9	24	
20568-624R		20569-S624R	20542-B624R	6 x 3/4 x .035	150 x 20 x .9	24	
20570-636RP		20571-S636RP	20538-B636RP	6 x 3/4 x .050	150 x 20 x 1.3	6	
	20576-800RG			8 x 3/4 x .042	200 x 20 x 1.1	Medium Carbide Grit	
	20598-966R			9 x 7/8 x .062	225 x 22 x 1.6	6	
	20597-960R			9 x 7/8 x .062	225 x 22 x 1.6	10	
	20592-650R			6 x 3/4 x .050	150 x 20 x 1.3	10/14	
	20591-6510R			6 x 3/4 x .050	150 x 20 x 1.3	10	
	20593-6514R			6 x 3/4 x .050	150 x 20 x 1.3	14	
	20594-6518R			6 x 3/4 x .050	150 x 20 x 1.3	18	

*Including nail-embedded wood.

Over 3 million painted parts in stock ready for same day shipping

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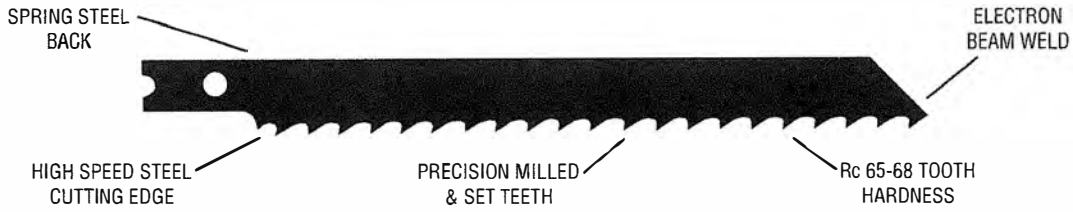
LENOX
LEADER OF THE PACK™

MILLED JIG SAW BLADES



Material shown: stainless steel 2" x 1/4" / 51 x 6mm, nail-embedded wood 2x4, stainless steel 6" x 1/8" / 152 x 4mm, fiber board 1" / 25mm, particle board 3/4" / 19mm.

LENOX
LEADER OF THE PACK™

FEATURES

- Bi-metal construction
- Precision milled teeth
- 8% cobalt high speed steel cutting edge
- Tooth hardness Rc 65-68
- 0° tang angle
- Tangs to fit all major manufacturers of jig saw machines

ADVANTAGES

- Shatter resistant
- Shock resistant teeth
- High wear resistance
- High heat resistance

BENEFITS

- Cuts through most materials including stainless steel and nail-embedded wood
- Longer life
- Retains tooth sharpness longer
- Increases productivity
- Faster cutting

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HACKSAW BLADES & FRAMES

SPECIFICATIONS

PRODUCT NUMBER			LENGTH x WIDTH		TEETH PER INCH/25mm
BULK PACKED 100 PER BOX	10 PER VINYL POUCH	BLISTER PACKED 1 PER CARD/ 10 CARDS PER PACK	INCHES	MILLIMETERS	
20110-018HE	20140-V018HE	20150-S018HE	10 x ½	250 x 13	18
20111-024HE	20141-V024HE	20151-S024HE	10 x ½	250 x 13	24
20112-032HE	20142-V032HE	20152-S032HE	10 x ½	250 x 13	32
	20143 -V214HE		12 x ½	300 x 13	14
20116-218HE	20144-V218HE	20154-S218HE	12 x ½	300 x 13	18
20117-224HE	20145-V224HE	20155-S224HE	12 x ½	300 x 13	24
20118-232HE	20146-V232HE	20156-S232HE	12 x ½	300 x 13	32

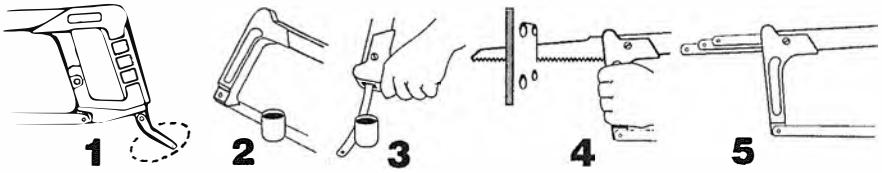
FEATURES
- Bi-metal construction
- Spring steel back
- M-2 high speed steel cutting edge
- Tooth hardness Rc 64-66

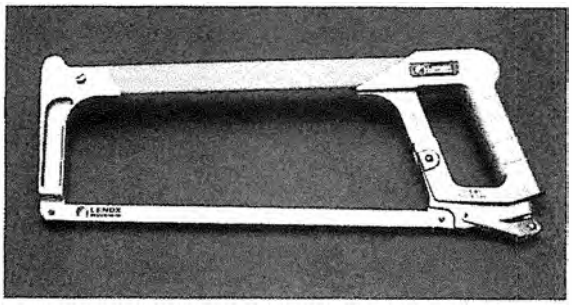
ADVANTAGES
- Virtually unbreakable
- Shatter resistant
- Shock resistant
- High heat resistance

BENEFITS
- Lasts longer
- Safer than solid high speed steel blades
- Outperforms carbon steel up to 10 to 1
- Increases blade life
- Easier to push through the cut
- Smoother cut
- Freer cutting action
- Faster cutting

4012 HACKSAW FRAME

1. Lever tensions the 12"/ 300mm hacksaw blade to 30,000 psi / 21 kg. mm² (about twice that of ordinary frames).
2. Mount blade at 45° for flush cutting jobs.
3. Use frame as jab saw (set screw holds blade in position).
4. Use as a compass saw with No. 20585-156R reciprocating blade.
5. Store spare blades inside tubular back.





1 PER SLEEVE/5 PER BOX

SPECIFICATIONS

PRODUCT NUMBER	DESCRIPTION
20918-4012	High tension hand hacksaw frame

FEATURES
- Heavy-duty aluminum handle
- Rectangular steel crossbar
- Blade storage
- Converts to jab or compass saw
- Permanent hardened/serrated blade holding pins
- Blade tensions to 30,000 psi / 21 kg. mm²
- Steel tensioning nut
- Fold away tension lever
- 45° blade holder pins for flush cutting

ADVANTAGES
- Resists breakage
- Easy to use
- No need to replace blade holder pins
- No blade twisting

BENEFITS
- Strong
- Saves time/improves productivity
- Safe to use
- Straighter cuts
- Convenient
- Longer blade life
- Versatile
- Fast cutting
- Easier to push through the cut

FSI specializes in solving problems

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
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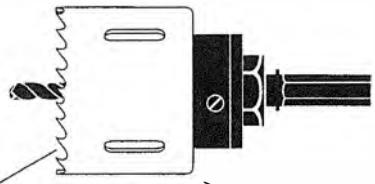
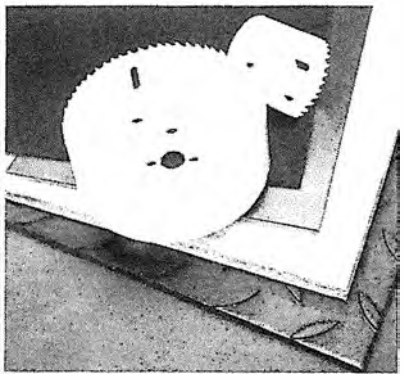
LENOX
LEADER OF THE PACK™

HOLE SAWS



Materials shown: plexiglass 1/8" / 6mm, stainless steel .100" / 2mm, plywood 1/2" / 13mm, diamond plate 1/2" / 13mm. Also cuts ferrous & stainless steels.



HOLE SAW RPM CHART

SIZE INCH	SIZE MM	MILD STEEL	TOOL & STAINLESS	CAST IRON	BRASS	ALUMINUM
9/16	14	580	300	400	790	900
5/8	16	550	275	365	730	825
11/16	17	500	250	330	665	750
3/4	19	460	230	300	600	690
–	20	425	210	280	560	630
13/16	21	425	210	280	560	630
7/8	22	390	195	260	520	585
15/16	24	370	185	245	495	555
1	25	350	175	235	470	525
1 1/16	27	325	160	215	435	480
1 1/8	29	300	150	200	400	450
1 3/16	30	285	145	190	380	425
1 1/4	32	275	140	180	360	410
1 5/16	33	260	135	175	345	390
1 3/8	35	285	145	190	380	425
1 7/16	37	240	120	160	315	360
1 1/2	38	230	115	150	300	345
1 9/16	40	220	110	145	290	330
1 5/8	41	210	105	140	280	315
1 11/16	43	205	100	135	270	305
1 3/4	44	195	95	130	250	295
1 13/16	46	190	95	125	250	285
1 7/6	48	180	90	120	240	270
2	51	170	85	115	230	255
2 1/16	52	165	80	110	220	245
2 1/8	54	160	80	105	210	240
2 1/4	57	150	75	100	200	225
2 3/8	60	140	70	95	190	220
2 1/2	64	135	65	90	180	205
2 9/16	65	130	65	85	175	200
2 5/8	67	130	65	85	170	195
–	68	130	65	85	170	195
2 3/4	70	125	60	80	160	185
2 7/8	73	120	60	80	160	180
3	76	115	55	75	150	170
3 1/8	79	110	55	70	140	165
3 1/4	83	105	50	70	140	155
3 3/8	86	100	50	65	130	150
3 1/2	89	95	45	65	130	145
3 5/8	92	95	45	60	120	140
3 3/4	94	90	45	60	120	135
4	102	85	40	55	110	130
4 1/8	105	80	40	55	110	120
4 1/4	108	80	40	55	110	120
4 1/2	114	75	35	50	100	105
4 3/4	121	70	35	45	90	95
5	127	65	30	40	85	90
5 1/2	140	60	30	35	80	85
6	152	55	25	35	75	85

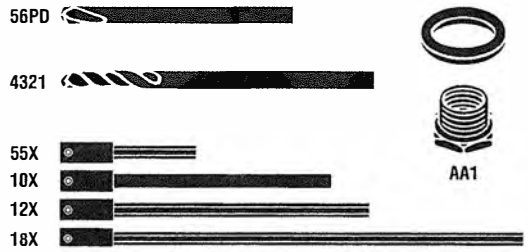
Suggested RPM's only.

1 PER CLAM

ACCESSORIES

PRODUCT NUMBER	DESCRIPTION	CHUCK SIZE INCHES	CHUCK SIZE MM	FITS ARBOR NUMBER
30850-4321	Pilot Drill*	1/4	6	1L, 2L, 4L
30851-56PD	Pilot Drill*	1/4	6	5L, 6L
30857-AA1	Arbor Adaptor**			1L, 4L, 5L
30848-18X	18" / 450mm Extension	1/2 & larger	13	1L, 2L
30847-12X	12" / 300mm Extension	1/2 & larger	13	1L, 2L
30843-10X	10" / 250mm Extension	3/8 & larger	10	5L, 6L
30846-55X	5 1/2" / 140mm Extension	1/2 & larger	13	1L, 2L

* Order Pilot Drills in multiples of ten.
** Arbor Adaptors 1 per card. Order in multiples of five.



1 PER BOX

ARBORS

PRODUCT NUMBER	FITS HOLE SAWS	SHANK TYPE	CHUCK SIZE INCHES	CHUCK SIZE MM
30001-1L	9L-19L	Hex	1/2 & larger	13
30002-2L	20L-96L	Hex	1/2 & larger	13
30004-4L	9L-19L	Round	1/4 & larger	6
30005-5L	9L-19L	Hex	3/8 & larger	10
30006-6L	20L-96L	Hex	3/8 & larger	10

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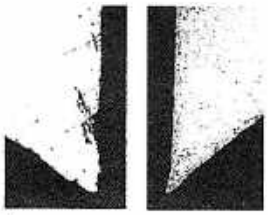
HOLE SAWS

HOLE SAW SPECIFICATIONS

PRODUCT NUMBER 1 PER BOX	PRODUCT NUMBER 1 PER CLAM	DIAMETER INCHES	DIAMETER MM	PIPE TAP INCHES	PIPE TAP MM	PIPE ENTR. INCHES	PIPE ENTR. MM	USE ARBOR NUMBER
30009-9L	–	9/16	14					1L, 4L, 5L
30010-10L	30110-K10L	5/8	16					1L, 4L, 5L
30011-11L	–	11/16	17					1L, 4L, 5L
30012-12L	30112-K12L	3/4	19	1/2	13	3/8	10	1L, 4L, 5L
30098-20MMHS	30198-K20MMHS	–	20					1L, 4L, 5L
30013-13L	–	13/16	21					1L, 4L, 5L
30014-14L	30114-K14L	7/8	22	3/4	19	1/2	13	1L, 4L, 5L
30015-15L	–	15/16	24					1L, 4L, 5L
30016-16L	30116-K16L	1	25					1L, 4L, 5L
30017-17L	30117-K17L	1 1/16	27					1L, 4L, 5L
30018-18L	30118-K18L	1 1/8	29	1	25	3/4	19	1L, 4L, 5L
30019-19L	–	1 3/16	30					1L, 4L, 5L
30020-20L	30120-K20L	1 1/4	32					2L or 6L
30021-21L	–	1 5/16	33					2L or 6L
30022-22L	30122-K22L	1 3/8	35			1	25	2L or 6L
30023-23L	–	1 7/16	37					2L or 6L
30024-24L	30124-K24L	1 1/2	38	1 1/4	32			2L or 6L
30025-25L	–	1 9/16	40					2L or 6L
30026-26L	30126-K26L	1 5/8	41					2L or 6L
30027-27L	–	1 11/16	43					2L or 6L
30028-28L	30128-K28L	1 3/4	44	1 1/2	38	1 1/4	32	2L or 6L
30029-29L	–	1 13/16	46					2L or 6L
30030-30L	30130-K30L	1 7/8	48					2L or 6L
30032-32L	30132-K32L	2	51			1 1/2	38	2L or 6L
30033-33L	–	2 1/16	52					2L or 6L
30034-34L	30134-K34L	2 1/8	54					2L or 6L
30036-36L	30136-K36L	2 1/4	57	2	51			2L or 6L
30038-38L	–	2 3/8	60					2L or 6L
30040-40L	30140-K40L	2 1/2	64			2	51	2L or 6L
30041-41L	–	2 9/16	65					2L or 6L
30042-42L	30142-K42L	2 5/8	67	2 1/2	64			2L or 6L
30043-43L	30143-K43L	–	68					2L or 6L
30044-44L	30144-K44L	2 3/4	70					2L or 6L
30046-46L	–	2 7/8	73					2L or 6L
30048-48L	30148-K48L	3	76			2 1/2	64	2L or 6L
30050-50L	30150-K50L	3 1/8	79					2L or 6L
30052-52L	30152-K52L	3 1/4	83	3	76			2L or 6L
30054-54L	–	3 3/8	86					2L or 6L
30056-56L	30156-K56L	3 1/2	89					2L or 6L
30058-58L	30158-K58L	3 5/8	92			3	76	2L or 6L
30060-60L	–	3 3/4	94	3 1/2	89			2L or 6L
30064-64L	30164-K64L	4	102					2L or 6L
30066-66L	30166-K66L	4 1/8	105			3 1/2	89	2L or 6L
30068-68L	–	4 1/4	108	4	102			2L or 6L
30072-72L	–	4 1/2	114					2L or 6L
30076-76L	30176-K76L	4 3/4	121	4 1/2	114	4	102	2L or 6L
30080-80L	–	5	127					2L or 6L
30088-88L	–	5 1/2	140					2L or 6L
30096-96L	–	6	152					2L or 6L

All Boxed Hole Saws 9/16" / 14mm to 1 3/4" / 44mm available in master pack of 10.
All Boxed Hole Saws 1 13/16" / 46mm to 3 1/2" / 89mm available in master pack of 5.

SHARPER TOOTH TIPS



A new manufacturing process creates sharper tooth tips for faster, freer cutting.
The difference can be seen in these microscopic photographs.

FEATURES

- Bi-metal construction
- M-2 high speed steel cutting edge
- Tooth hardness Rc 63-65
- Vari-Tooth® design
- Positive rake tooth
- 3/16" / 5mm thick heavy-duty backing plate
- 1 1/2" / 38mm cutting depth

BENEFITS

- Teeth stay sharper longer
- Faster cutting
- Smoother cuts
- Quieter cutting
- Better chip clearance
- Eliminates need for torque driving plate
- Cuts through 2x4*

*Some arbors limit cutting depth to 1 3/8" / 35mm.

ADVANTAGES

- Shock resistant teeth
- Resists tooth strippage
- Greatly reduces vibration
- Aggressive cutting action
- More durable than stamped backing cups
- Deep cutting

LENOX® LEADER OF THE PACK™

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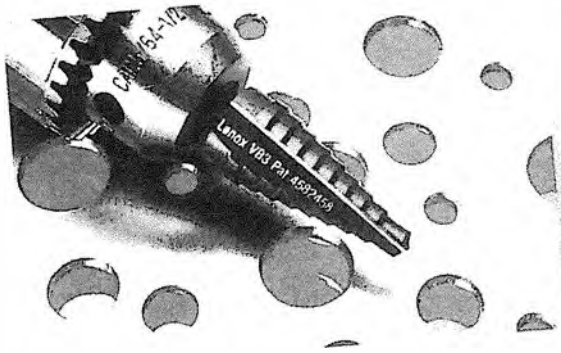
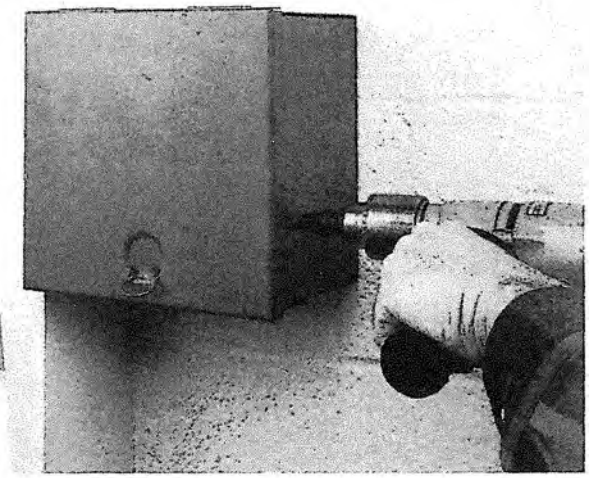
VARI-BIT STEP DRILLS

LENOX "LEADER OF THE PACK"

VARI-BIT®

STEP DRILL BITS





Material shown: stainless steel .100" / 2mm.

1 PER CLAM

U.S. PATENT NO. 4582458

SPECIFICATIONS

LENOX VARI-BIT	NUMBER OF HOLE SIZES	HOLE SIZES INCHES / MM	ELECTRIC DRILL SIZE INCHES / MM	UNIBIT®	KLEIN UNIBIT®
30881-VB1	13	1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, 1/2 3, 4, 4.5, 5.5, 6, 7, 8, 8.5, 9.5, 10, 11, 12, 12.5	1/4 / 6 & larger	1	1-59001
30882-VB2	9	1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1 12.5, 14, 16, 17.5, 19, 20.5, 22, 23.5, 25	3/8 / 9.5 & larger	20	2-59002
30883-VB3	9	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 6, 8, 9.5, 11, 12.5, 14, 16, 17.5, 19	3/8 / 9.5 & larger	3	3-59003
30884-VB4	6	3/16, 1/4, 5/16, 3/8, 7/16, 1/2 4.5, 6, 8, 9.5, 11, 12.5	1/4 / 6 & larger	2	5-59005
30886-VB6	2	3/8, 1/2 9.5, 12.5	1/4 / 6 & larger	10, 12*	7-59007
30887-VB7	1	7/8 / 22 (for 1/2" / 12.5 conduit)	3/8 / 9.5 & larger	11	8-59008
30908-VB8	12	3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 4.5, 6, 8, 9.5, 11, 12.5, 14, 16, 17.5, 19, 20.5, 22	3/8 / 9.5 & larger	4	14-59014
30888-VB11	2	7/8, 1 1/8 / 22, 28.5 (for 1/2" / 12.5 and 3/4" / 19 conduit)	3/8 / 9.5 & larger	13**	11-590011
30912-VB12	5	7/8, 1 1/8, 1 7/32, 1 1/4, 1 3/8 22, 28.5, 31, 32, 35	3/8 / 9.5 & larger	None	None
30925-VBX8	EXTENSION 8" / 204mm. 1 per clam. Fits 3/8" / 9.5mm drill chuck & larger.				

* Lenox Vari-Bit #6 combines Unibit® #10 & #12.

** Unibit® #13 has 1 1/8" / 28.5mm step only. Vari-Bit has both 7/8" / 22mm & 1 1/8" / 28.5mm.

METRIC VARI-BIT® SPECIFICATIONS

LENOX VARI-BIT	NUMBER OF HOLE SIZES	HOLE SIZES MM	ELECTRIC DRILL SIZE MM	UNIBIT®
30960-MVB412	9	4, 5, 6, 7, 8, 9, 10, 11, 12	6mm & larger	1M
30961-MVB1424	7	14, 16, 18, 20, 22, 24, 25	10mm & larger	20M
30962-MVB618	7	6, 8, 10, 12, 14, 16, 18	10mm & larger	3M
30963-MVB2034	8	20, 22, 24, 26, 28, 30, 32, 34	10mm & larger	21M
30964-MVB528PG	10	5, 7.5, 10, 12.5, 15.2, 18.6, 20.4, 22.5, 25.5, 28.3	10mm & larger	PG29

Fastener Systems, Inc.
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PORTABLE BAND SAW BLADES

MASTER-BAND®

3 PER BOX

SPECIFICATIONS

LENGTH x WIDTH x THICKNESS INCHES	LENGTH x WIDTH x THICKNESS MILLIMETERS	PRODUCT NUMBER	TEETH PER INCH/25mm
3' 8⅞"(44⅞") x ½" x .020	1140 x 13 x .50	80114-38-EW-10/14	10/14
		80115-38-EW-14	14
		80112-38-EW-14/18	14/18
		80116-38-EW-18	18
		80117-38-EW-24	24
3' 8⅞"(44⅞") x ½" x .025	1140 x 13 x .64	80143-385-EW-8/12	8/12
		80144-385-EW-10/14	10/14
		80145-385-EW-14	14
		80142-385-EW-14/18	14/18
4' 5¾"(53¾") x ½" x .020	1365 x 13 x .50	80119-45-EW-10/14	10/14
		80120-45-EW-14	14
		80123-45-EW-14/18	14/18
		80121-45-EW-18	18
		80122-45-EW-24	24
4' 5¾"(53¾") x ½" x .025	1365 x 13 x .64	80146-455-EW-10/14	10/14
		80147-455-EW-14/18	14/18
4' 6"(54") x ½" x .025	1370 x 13 x .64	80148-54-EW-6/10	6/10
		80723-54-EW-8/12	8/12
		80724-54-EW-10/14	10/14
		80141-54-EW-14/18	14/18
		80150-54-EW-18	18

Tungsten Grit Edge Portable Band Saw Blades available upon request.

FEATURES

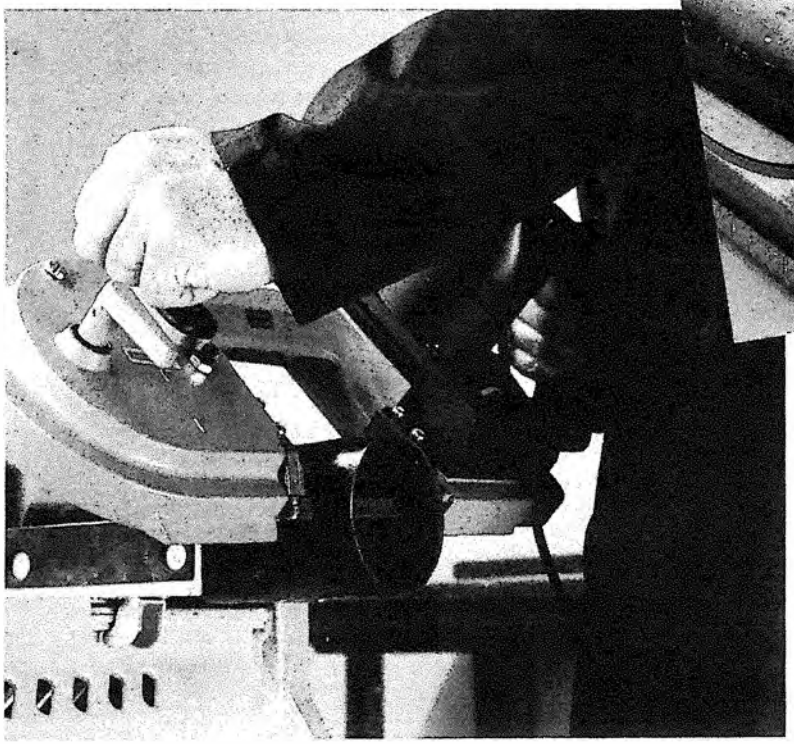
- Bi-metal construction
- Matrix II type alloy high speed steel cutting edge (8% cobalt edge)
- Tooth hardness Rc 66-68
- Vari-Tooth® or standard tooth forms available

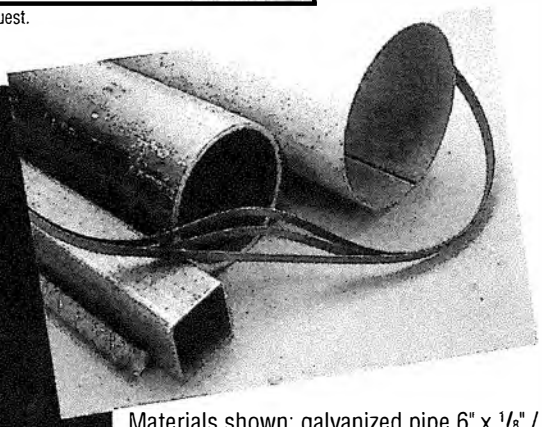
ADVANTAGES

- Tough shock resistant alloy with less tooth chippage
- Withstands higher cutting temperatures than M-2 or carbon steel blades

BENEFITS

- Lasts longer on interrupted cuts and mild to difficult to machine materials
- Attains higher productivity than M-2 or carbon steel blades





Materials shown: galvanized pipe 6" x ⅛" / 152 x 3mm, black pipe 4" x .237 / 102 x 6mm, steel square 2" x .100 / 51 x 2mm, rebar ½" / 13mm.

Same day color match - In house painting

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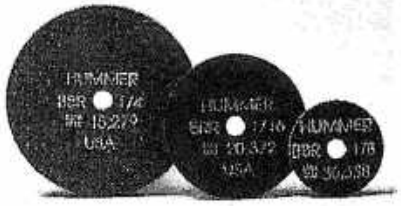
MORSE

"Hummer" Abrasive Wheels

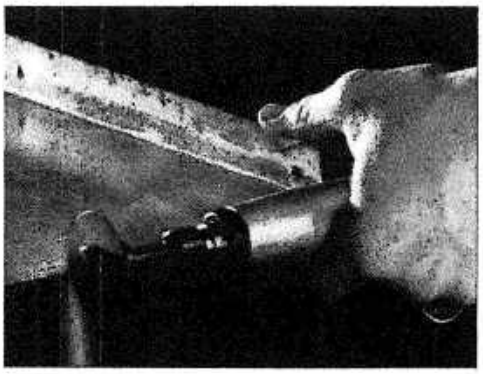
"Hummer" Type 1 Resin Bond Wheels – Boxed



FEATURES	ADVANTAGES	BENEFITS
• Resin Bond • Aluminum Oxide Grain • Double Fiberglass Reinforcement • Special Formulation	• Fast Metal Removal • Resists Breakage • Holds Grains Longer • More Fractures per Grain • Helps Clean Kerf	• Fast Cutting and Grinding • Increased Production Rates • Safe Operation • Longer Life • Cleaner Cuts

Applications

- For cut-off or grinding in high speed air or electric die grinders.
- Automotive, aircraft or ship building.
- Pipe welding and fabrication.
- Power plant construction and maintenance.
- General purpose metal removal.
- Available in two grades: Standard - BBR fast cutting (not available in 1/16" and 1/32"). Hard - BRR long life.

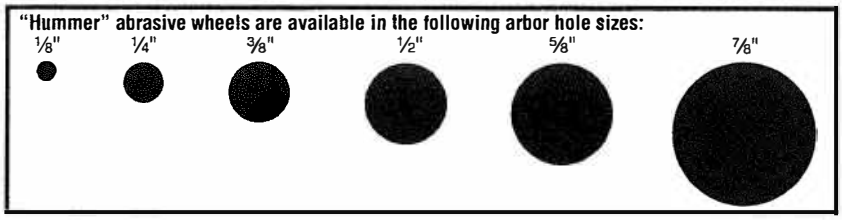


Specifications

Description Inches	Standard Pack	RPM	Description Inches	Standard Pack	RPM
1 x 1/32	25	61,115	2½ x ¼	10	24,446
1 x 1/16	25	61,115	2½ x ⅜	10	21,696
1 x ⅛	25	61,115	2½ x ½	10	21,696
1 x ¼	10	61,115	3 x .035	25	20,372
1 x ⅜	10	54,240	3 x 1/32	25	20,372
1 x ½	10	54,240	3 x 1/16	25	20,372
1¼ x 1/32	25	48,892	3 x ⅛	25	20,372
1¼ x 1/16	25	48,892	3 x ¼	10	20,372
1¼ x ⅛	25	48,892	3 x ⅜	10	18,080
1¼ x ¼	10	48,892	3 x ½	10	18,080
1¼ x ⅜	10	43,392	3½ x 1/32	25	17,462
1¼ x ½	10	43,392	3½ x 1/16	25	17,462
1½ x 1/32	25	40,744	3½ x ⅛	25	17,462
1½ x 1/16	25	40,744	3½ x ¼	10	17,462
1½ x ⅛	25	40,744	3½ x ⅜	10	15,497
1½ x ¼	10	40,744	3½ x ½	10	15,497
1½ x ⅜	10	36,160	4 x .035	25	15,279
1½ x ½	10	36,160	4 x 1/32	25	15,279
2 x .035	25	30,558	4 x 1/16	25	15,279
2 x 1/32	25	30,558	4 x ⅛	25	15,279
2 x 1/16	25	30,558	4 x ¼	10	15,279
2 x ⅛	25	30,558	4 x ⅜	10	13,560
2 x ¼	10	30,558	4 x ½	10	13,560
2 x ⅜	10	27,120	4½ x 1/16	25	13,581
2 x ½	10	27,120	4½ x ⅛	25	13,581
2½ x 1/32	25	24,446	4½ x ¼	10	13,581
2½ x 1/16	25	24,446	4½ x ⅜	10	12,053
2½ x ⅛	25	24,446	4½ x ½	10	12,053

HCKIT01 Kit
5 Popular "Hummer" Cut-off Wheels, 3" x 1/32" x ⅜", and 1 – 3/8" Mandrel.

"Hummer" abrasive wheels are available in the following arbor hole sizes:



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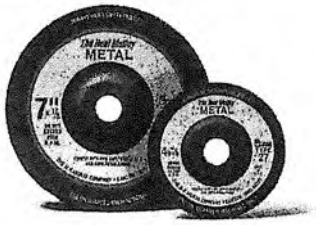
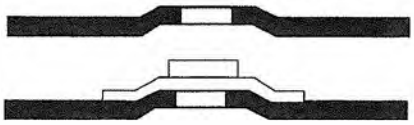
MORSE

Depressed Center Wheels

Type 27 Depressed Center Resin Bond Wheels



FEATURES	ADVANTAGES	BENEFITS
• Resin Bond • Three Ply Reinforcement on all 1/4" Wheels • Aluminum Oxide Grain in Metal Wheels • Silicon Carbide Grain in Masonry Wheels	• Fast Material Removal • Resists Breakage	• Increased Production Rates • Safer Operation



Applications – Metal Wheel

- For grinding or cut-off in electric or air powered right angle grinders.
- General purpose applications in mild steels or for multi-application users grinding stainless steels, and alloy steels.
- For pipe welding and general metal fabrication.

Specifications – Metal Cutting
Type 27 Metal Wheels

Description Inches	Product Number Boxed	Product Number Carded	Standard Pk. Boxed	Standard Pk. Carded	Maximum RPM
3 x ⅛ x ⅜	D3000MET	--	25	--	18,000
3 x ¼ x ⅜	D3020MET	--	25	--	18,000
4 x ⅛ x ⅜	D4000MET	--	25	--	13,500
4 x ⅛ x ⅝	D4001MET	--	25	--	13,500
4 x ¼ x ⅜	D4020MET	--	25	--	13,500
4 x ¼ x ⅝	D4021MET	--	25	--	13,500
4½ x ⅛ x ⅞	D4502MET	DC4502MET	25	5	13,300
4½ x ¼ x ⅞	D4522MET	DC4522MET	25	--	13,300
5 x ⅛ x ⅞	D5002MET	--	25	--	12,200
5 x ¼ x ⅞	D5022MET	--	25	--	12,200
7 x ⅛ x ⅞	D7002MET	DC7002MET	25	5	8,500
7 x ⅛ x ⅝ - 11	D7003MET	--	10	--	8,500
7 x ¼ x ⅞	D7022MET	DC7022MET	25	5	8,500
7 x ¼ x ⅝ - 11	D7023MET	DC7023MET	10	5	8,500
9 x ⅛ x ⅞	D9002MET	--	25	--	6,600
9 x ⅛ x ⅝ - 11	D9003MET	--	10	--	6,600
9 x ¼ x ⅞	D9022MET	--	25	--	6,600
9 x ¼ x ⅝ - 11	D9023MET	--	10	--	6,600

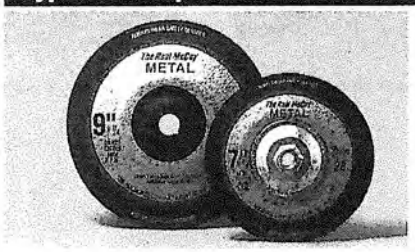
Applications – Masonry Wheel

- For grinding in electric or air powered right angle grinders.
- General purpose applications in concrete, masonry or stone.
- For high load metal applications including ductile iron, cast iron, aluminum, etc.

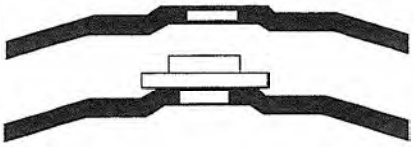
Specifications – Masonry Cutting
Type 27 Masonry Wheels

Description Inches	Product Number Boxed	Product Number Carded	Standard Pk. Boxed	Standard Pk. Carded	Maximum RPM
4½ x ¼ x ⅞	D4522MAS	DC4522MAS	25	5	13,300
7 x ¼ x ⅞	D7022MAS	DC7022MAS	25	5	8,500
7 x ¼ x ⅝ - 11	D7023MAS	DC7023MAS	10	5	8,500
9 x ¼ x ⅞	D9022MAS	--	25	--	6,600
9 x ¼ x ⅝ - 11	D9023MAS	--	10	--	6,600

Type 28 Depressed Center Wheels



FEATURES	ADVANTAGES	BENEFITS
• Resin Bond • Three Ply Reinforcement on all 1/4" Wheels • Aluminum Oxide Grain in Metal Wheels • Silicon Carbide Grain in Masonry Wheels	• Fast Material Removal • Resists Breakage	• Increased Production Rates • Safer Operation



Applications

- For flat or corner grinding saucer-shape allows increased visibility.

Specifications – Metal Cutting
Type 28 Metal Wheels

Description Inches	Product Number Boxed	Product Number Carded	Standard Pk. Boxed	Standard Pk. Carded	Maximum RPM
7 x ¼ x ⅞	D7022MET28	--	25	--	8,500
7 x ¼ x ⅝ - 11	D7023MET28	--	10	--	8,500
9 x ¼ x ⅞	D9022MET28	--	25	--	6,600
9 x ¼ x ⅝ - 11	D9023MET28	--	10	--	6,600

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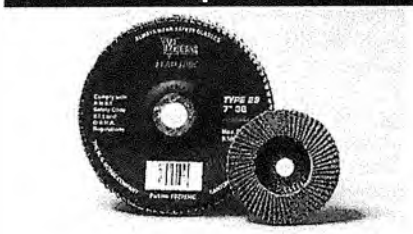
MORSE

Flap Discs & Wheels

Zirconium Flap Discs



FEATURES	ADVANTAGES	BENEFITS
• Combined Rough Metal Removal and Finishing • Norzon Zirconia Grain • Type 27 or Type 29	• Eliminates Secondary Operations • Long Life and Fast Cutting • Standard or Built-In Grinding Action	• Increased Production Rates • Won't Clog or Load • For use on Stainless Steel • Multiple Applications

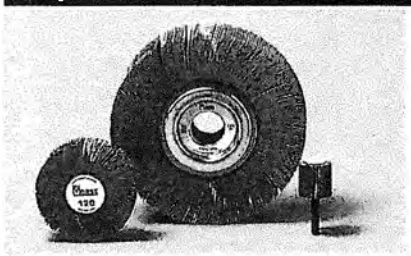
Applications

- For combined grinding and finishing in electric or air powered right angle grinders.
- For general purpose grinding and smoothing of ferrous or non-ferrous metals.
- Long life in stainless steel.
- For weld seam grinding and blending.
- Rust removal.
- Metal fabrication.
- Automotive, aircraft or ship building.
- Automotive aftermarket.

Specifications

Description	Type	Grit	Product Number Boxed	Standard Pack	Maximum RPM
4 x ⅝ AH	27	36z	FDZ4036F	10	13,500
4 x ⅝ AH	29	36z	FDZ4036C	10	13,500
4 x ⅝ AH	27	60z	FDZ4060F	10	13,500
4 x ⅝ AH	29	60z	FDZ4060C	10	13,500
4 x ⅝ AH	27	80z	FDZ4080F	10	13,500
4 x ⅝ AH	29	80z	FDZ4080C	10	13,500
4½ x ⅞ AH	27	36z	FDZ4536F	10	13,300
4½ x ⅞ AH	29	36z	FDZ4536C	10	13,300
4½ x ⅞ AH	27	60z	FDZ4560F	10	13,300
4½ x ⅞ AH	29	60z	FDZ4560C	10	13,300
4½ x ⅞ AH	27	80z	FDZ4580F	10	13,300
4½ x ⅞ AH	29	80z	FDZ4580C	10	13,300
7 x ⅞ AH	27	36z	FDZ7036F	10	8,500
7 x ⅞ AH	29	36z	FDZ7036C	10	8,500
7 x ⅞ AH	27	60z	FDZ7060F	10	8,500
7 x ⅞ AH	29	60z	FDZ7060C	10	8,500
7 x ⅞ AH	27	80z	FDZ7080F	10	8,500
7 x ⅞ AH	29	80z	FDZ7080C	10	8,500

Flap Wheels



FEATURES	ADVANTAGES	BENEFITS
• Aluminum Oxide Grain on Resin Bond Cloth • Spin Balanced	• Easy Stock Removal • Concentric Operation	• Increased Production Rates • Enhanced Safety • Longer Life

Applications

- For finishing and light stock removal.
- For ferrous and non-ferrous metals, woods, and plastics.
- Deburring and blending.
- Cleaning and polishing.
- Pre-paint preparation.

Specifications

Description	Grit	Product Number Boxed	Standard Pack	Maximum RPM
1 x 1 x 1/4 shank	60	FW1160	20	25,000
1 x 1 x 1/4 shank	80	FW1180	20	25,000
1 x 1 x 1/4 shank	120	FW11120	20	25,000
2 x 1 x 1/4 shank	60	FW2160	20	22,000
2 x 1 x 1/4 shank	80	FW2180	20	22,000
2 x 1 x 1/4 shank	120	FW21120	20	22,000
3 x 1 x 1/4 shank	60	FW3160	20	18,000
3 x 1 x 1/4 shank	80	FW3180	20	18,000
3 x 1 x 1/4 shank	120	FW31120	20	18,000
4 x 1 x 5/8 AH	60	FW4160A	10	15,000
4 x 1 x 5/8 AH	80	FW4180A	10	15,000
4 x 1 x 5/8 AH	120	FW41120A	10	15,000
6 x 1 x 1 AH	60	FW6160A	5	6,000
6 x 1 x 1 AH	80	FW6180A	5	6,000
6 x 1 x 1 AH	120	FW61120A	5	6,000
6 x 2 x 1 AH	60	FW6260A	5	3,500
6 x 2 x 1 AH	80	FW6280A	5	3,500
6 x 2 x 1 AH	120	FW62120A	5	3,500
8 x 1 x 1 AH	60	FW8160A	5	5,000
8 x 1 x 1 AH	80	FW8180A	5	5,000
8 x 1 x 1 AH	120	FW81120A	5	5,000
8 x 2 x 1 AH	60	FW8260A	5	3,500
8 x 2 x 1 AH	80	FW8280A	5	3,500
8 x 2 x 1 AH	120	FW82120A	5	3,500

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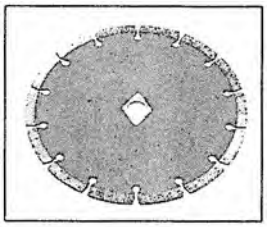
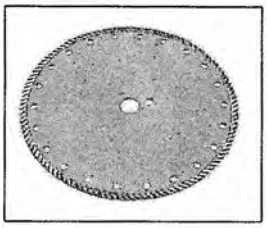
Premium Segment Dry/Wet Cut Blades



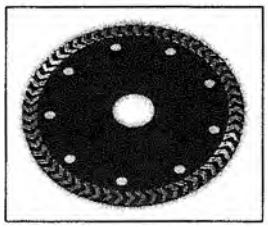
DIAMOND BLADES

Premium Dry/Wet Cut "DWS" Type Turbo Blades



KHK Turbo Blades can be used with a standard circular saw or gasoline powered hand held saw to cut reinforced concrete. The turbo blades are ideal for cutting marble, granite, brick, tile, refractory and ceramic products. Continuous rim construction provide smoother cutting and eliminates segment breakage.

Premium Dry/Wet Cut "RS" Type Turbo Blades



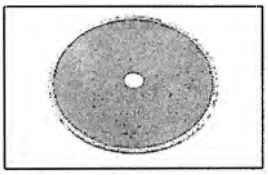
KHK "RS" type Turbo Blades, because of their special design, make cutting more profitable by more efficient heat exchange and quick chip removal.

Premium Segmented Cured Concrete Blades

KHK Segmented Cure Concrete Blades are specially designed for cutting cured concrete and block. These blades can be used for walk behind saws.

Premium Segmented Green Concrete/Asphalt Blades

Premium Wet Cut Tile Blades



KHK Wet Cutting Tile Blades are designed with continuous rim that provides faster, more efficient, chip-free cutting of hard ceramic materials including ceramic tile, quarry tile, marble, granite, slate, etc.

Premium Cup Grinders

KHK Premium Cup Grinders are designed and manufactured for heavy material removal suitable applications include concrete, masonry and stone.

Premium Tuck Point Blades/Crack Chaser

KHK Premium Tuck Point blades are designed for high speed clearing of mortar joints on brick structures.

Premium Low Noise Diamond Blades

"LN" type blades, our newly patented products, will reduce the noise level about 10DB when sawing. And this noise reduction is achieved by special designed cores. This special design will reduce the cutting noise, increase blades rigidity as well as cutting speed and blade life.

Nominal Size	Part Number
4"x.070x5/8"-20mm	HKD40T
4.5"x.070x7/8"-5/8"	HKD45T
5"x.070x7/8"-5/8"	HKD50T
6"x.080x7/8"-5/8"	HKD60T
7"x.090x5/8"-Dia	HKD70T
8"x.095x7/8"-5/8"	HKD80T
9"x.095x7/8"-5/8"	HKD90T
10"x.095x7/8"-5/8"	HKD100T
12"x.110x1"or 20mm	HKD120T
12"x.125x1" or 20mm	HKD120T-L
14"x.125x1" or 20mm	HKD140T
4"x.080x5/8"-20mm	HKDWS40T
4.5"x.080x7/8"-5/8"	HKDWS45T
5"x.080x7/8"-5/8"	HKDWS50T
6"x.080x7/8"-5/8"	HKDWS60T
7"x.090x5/8"-Dia	HKDWS70T
8"x.095x7/8"-5/8"	HKDWS80T
9"x.095x7/8"-5/8"	HKDWS90T
10"x.095x7/8"-5/8"	HKDWS100T
12"x.125x1" or 20mm	HKDWS120T
14"x.125x1" or 20mm	HKDWS140T
4" x .080x5/8"-20mm	HKRS40T
4.5"x.080x7/8"-5/8"	HKRS45T
5"x.080x7/8"-5/8"	HKRS50T
6"x.080x7/8"-5/8"	HKRS60T
7"x.090x5/8"-Dia	HKRS70T
8"x.095x7/8"-5/8"	HKRS80T
9"x.095x7/8"-5/8"	HKRS90T
10"x.095x7/8"-5/8"	HKRS100T
12"x.125x1" or 20mm	HKRS120T
14"x.125x1" or 20mm	HKRS140T
10"x.095x7/8"-5/8"	HKD100T-C
12"x.110x1" or 20mm	HKD120T-C
12"x.125x1" or 20mm	HKD120T-CL
14"x.125x1" or 20mm	HKD140T-C
14"x.145x1" or 20mm	HKD140T-CL
16"x.142x1"	HKD160T-C
18"x.142x1"	HKD180T-C
20"x.151x1"	HKD200T-C
12"x.125x1" or 20mm	HKD120T-A
14"x.145x1" or 20mm	HKD140T-A
4"x.060x5/8"-20mm	HKW40T
4.5"x.060x7/8"-5/8"	HKW45T
5"x.060x7/8"-5/8"	HKW50T
6"x.070x7/8"-5/8"	HKW60T
7"x.080x5/8"-Dia	HKW70T
8"x.080x7/8"-5/8"	HKW80T
10"x.088x5/8"	HKW100T
4"x.250x7/8" (Single Row)	HKM40T-S
4"x.250x7/8" (Double Row)	HKM40T-D
7"x.250x7/8"-5/8"	HKM70T
4"x.250x7/8"-5/8"	HKT40T
7"x.250x7/8"-5/8"	HKT70T

All KHK Premium Diamond Blades are available with our Low Noise Steel Cores.

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- M2 High Speed
- Size Above ½ Reduced Shank To ½"
- 118° Point
- Sharp Cutting Edge To Drill In Many Different Types Of Material
  — Mild Steel
  — Cast Iron
  — Aluminum
  — Wood

TRITON 135

AIRCRAFT DRILL BITS
- Straight Shank
- Split Point
- 135° Point
- Sharp Cutting Edge To Drill In Many Materials
- Extra Flexibility For Drilling In Inaccessible Areas

SERIES 216HS/12" LONG

Part Number	Drill Size	Dec. Equiv.	Flute Length
216HS1264	3/16"	1875	9"
216HS1464	7/32	2188	9
216HS1664	1/4	2500	9
216HS1864	9/32	2812	9
216HS2064	5/16	3125	9
216HS2264	11/32	3438	9
216HS2464	3/8	3750	9
216HS2664	13/32	4062	9
216HS2864	7/16	4375	9
216HS3064	15/32	4688	9
216HS3264	1/2	5000	9
216HS3664	9/16"	5625	9
216HS4064	5/8"	6250	9
216HS4864	3/4"	7500	9

SERIES 217HS/18" LONG

Part Number	Drill Size	Dec. Equiv.	Flute Length
217HS1264	3/16"	.1875	14"
217HS1464	7/32	.2188	14
217HS1664	1/4	.2500	14
217HS1864	9/32	.2812	14
217HS2064	5/16	.3125	14
217HS2264	11/32	.3438	11
217HS2464	3/8	.3750	14
217HS2664	13/32	.4062	14
217HS2864	7/16	.4375	14
217HS3064	15/32	.4688	14
217HS3264	1/2	.5000	14
217HS3664	9/16"	.5625	14
217HS4064	5/8"	.6250	14
217HS4864	3/4"	.7500	14

AIRCRAFT DRILL BIT 135° SPLIT POINT

SERIES 212SP/6" LONG

Part Number	Drill Size	Dec. Equiv.	Flute Length
212SP0464	1/16"	.0625	1/16"
212SP0864	1/8	.1250	1 5/8
212SP0964	9/64	.1406	1 3/4
212SP1064	5/32	.1562	2
212SP1164	11/64	.1719	2 1/4
212SP1264	3/16	.1875	2 3/8
212SP1364	13/64	.2031	2 1/2
212SP1464	7/32	.2188	2 5/8
212SP1564	15/64	.2344	2 3/4
212SP1664	1/4	.2500	2 3/4
212SP1764	17/64	.2656	2 7/8
212SP1864	9/32	.2812	2 15/16
212SP1964	19/64	.2969	3 1/16
212SP2064	5/16	.3125	3 3/16
212SP2164	21/64	.3281	3 5/16
212SP2264	11/32	.3438	3 7/16
212SP2364	23/64	.3594	3 7/16
212SP2464	3/8	.3750	3 9/16
212SP2564	25/64	.3906	3 9/16
212SP2664	13/32	.4062	3 7/8
212SP2764	27/64	.4912	3 15/16
212SP2864	7/16	.4375	4 1/16
212SP2964	29/64	.4531	4 3/32
212SP3064	15/32	.4688	4 5/16
212SP3164	31/64	.4844	4 3/8
212SP3264	1/2	.5000	4 1/2

SERIES 214SP/12" LONG

Part Number	Drill Size	Dec. Equiv.	Flute Length
214SP0864	1/8"	.1250	1 5/8"
214SP1064	5/32	.1562	2
214SP1264	3/16	.1875	2 5/16
214SP1464	7/32	.2188	2 1/2
214SP1664	1/4	.2500	2 3/4
214SP1864	9/32	.2812	2 15/16
214SP2064	5/16	.3125	3 3/16
214SP2264	11/32	.3438	3 7/16
214SP2464	3/8	.3750	3 9/16
214SP2664	13/32	.4062	3 7/8
214SP2864	7/16	.4375	4 1/16
214SP3064	15/32	.4688	4 5/16
214SP3264	1/2	.5000	4 1/2

SERIES 215SP/18" LONG

Part Number	Drill Size	Dec. Equiv.	Flute Length
215SP1264	3/16"	.1875	2 5/16"
215SP1664	1/4	.2500	2 3/4
215SP2064	5/16	.3125	3 3/16
215SP2464	3/8	.3750	3 5/8
215SP2864	7/16	.4375	4 1/16
215SP3264	1/2	.5000	4 1/2

Aircraft Extension Drills 6" & 12" Long

- Split point
- 135° Point
- M2 High Speed

SERIES 213SP/6" LONG WIRE SIZES

Part Number	Drill Size	Dec. Equiv.	Flute Length
213SP0001	1	.2280	2 1/4
213SP0007	7	.2010	2 1/4
213SP0010	10	.1935	2 1/4
213SP0011	11	.1910	3 1/4
213SP0013	13	.1850	3 1/4
213SP0020	20	.161	3 1/4
213SP0021	21	.159	3 1/4
213SP0029	29	.1360	1 1/4
213SP0030	30	.1285	1 1/4
213SP0036	36	.1065	1 1/4
213SP0040	40	.0980	1 1/4

12" LONG WIRE SIZES

Part Number	Drill Size	Dec. Equiv.	Flute Length
213SP1201	1	.2280	3 1/4

Long Boy Drill Bits For Construction

SUPER HIGH SPEED STEEL ½" SHANK

Precision point angle for effective penetration through steel and wood.

Extra length flute with continuous cutting edges for drilling deep holes and fast chip removal.

Reduced shank fits all drill motors with ½" chucks.

Non-slip grips prevent the bit from spinning in the chuck.

THESE DRILL BITS ARE ENGINEERED To — Work for Roof Structure Assembly. When there is a problem lining up opposite hole connector and a standard wood drill break striking steel, we recommend to use the contractor's Long Boy.

SERIES 218HS CONTRACTORS LONG BOY

Part Number	Drill Size	Dec. Equiv.	O/A Length	Flute Length
218HS3664	9/16"	.5625	12"	9"
218HS4064	5/8	.6250	12	9
218HS4464	11/16	.6875	12	9
218HS4864	3/4	.7500	12	9
218HS5664	7/8	.8750	10	6
218HS6064	15/16	.9375	10	6
218HS6464	1	1.000	11	6
218HS7264	1 1/8	1.125	12	7

Fastener Systems, Inc.

640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382

(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

Stub Heavy Duty HSS Drills

TRITON 135

- M2 HSS
- 135° Point
- Split Point
- Black Oxide Finish
- Short Flute For Exceptional Strength
- Suitable for
  - — Stainless Steel
  - — Medium Alloy Steel
  - — Medium Alloyed Materials
  - — All Types of Sheet Metal Working
  - — All Types of Automotive Working

SERIES 210SM STUB LENGTH WIRE GAUGE

Part Number	Drill Size	Dec. Equiv.	O/A Length	Flute Length
210SM0001	1	2280	2 7/16"	1 15/16"
210SM0002	2	2210	2 7/16	1 15/16
210SM0003	3	.2130	2 3/8	1 1/2
210SM0004	4	2090	2 3/8	1 1/2
210SM0005	5	2055	2 3/8	1 1/2
210SM0006	6	2040	2 3/8	1 1/2
210SM0007	7	2010	2 1/2	1 3/16
210SM0008	8	1990	2 1/2	1 3/16
210SM0009	9	1960	2 1/2	1 3/16
210SM0010	10	1935	2 1/2	1 3/16
210SM0011	11	1910	2 1/2	1 3/16
210SM0012	12	1890	2 1/2	1 3/16
210SM0013	13	1850	2 3/16	1 1/8
210SM0014	14	1820	2 3/16	1 1/8
210SM0015	15	1800	2 3/16	1 1/8
210SM0016	16	1770	2 3/16	1 1/8
210SM0017	17	1730	2 3/16	1 1/8
210SM0018	18	1695	2 1/8	1 1/16
210SM0019	19	1660	2 1/8	1 1/16
210SM0020	20	1610	2 1/8	1 1/16
210SM0021	21	1590	2 1/8	1 1/16
210SM0022	22	1570	2 1/8	1 1/16
210SM0023	23	1540	2 1/16	1
210SM0024	24	1520	2 1/16	1
210SM0025	25	1495	2 1/16	1
210SM0026	26	1470	2 1/16	1
210SM0027	27	1440	2 1/16	1
210SM0028	28	1405	1 15/16	15/16
210SM0029	29	1360	1 15/16	15/16
210SM0030	30	1285	1 15/16	15/16
210SM0031	31	1200	1 7/8	7/8
210SM0032	32	1160	1 7/8	7/8
210SM0033	33	1130	1 7/8	7/8
210SM0034	34	1110	1 7/8	7/8
210SM0035	35	1100	1 7/8	7/8
210SM0036	36	1065	1 13/16	13/16
210SM0037	37	1040	1 13/16	13/16
210SM0038	38	1015	1 13/16	13/16
210SM0039	39	0995	1 13/16	13/16
210SM0040	40	0980	1 13/16	13/16

SERIES 209SM STUB LENGTH FRACTIONAL SIZES

Part Number	Drill Size	Dec. Equiv.	O/A Length	Flute Length
209SM0464	1/16"	0625	1 3/8"	5/8"
209SM0564	5/64	0781	1 11/16	[illegible]
209SM0664	3/32	0938	1 3/4	3/4
209SM0764	7/64	1094	1 13/16	13/16
209SM0864	1/8	1250	1 7/8	7/8
209SM0964	9/64	1406	1 15/16	15/16
209SM1064	5/32	1562	2 1/16	1
209SM1164	11/64	1719	2 1/8	1 1/16
209SM1264	3/16	1875	2 3/16	1 1/8
209SM1364	13/64	2031	2 1/4	1 3/16
209SM1464	7/32	2188	2 3/8	1 1/4
209SM1564	15/64	2344	2 7/16	1 3/8
209SM1664	1/4	2500	2 1/2	1 3/8
209SM1764	17/64	2656	2 5/8	1 7/16
209SM1864	9/32	2812	2 11/16	1 1/2
209SM1964	19/64	2969	2 3/4	1 9/16
209SM2064	5/16	3125	2 13/16	1 5/8
209SM2164	21/64	3281	2 15/16	1 11/16
209SM2264	11/32	3438	3	1 11/16
209SM2364	23/64	3594	3 1/16	1 3/4
209SM2464	3/8	3750	3 1/8	1 13/16
209SM2564	25/64	3906	3 1/4	1 7/8
209SM2664	13/32	4062	3 5/16	1 15/16
209SM2764	27/64	4219	3 3/8	2
209SM2864	7/16	4375	3 7/16	2 1/16
209SM2964	29/64	4531	3 9/16	2 1/8
209SM3064	15/32	4688	3 5/8	2 1/8
209SM3164	31/64	4844	3 11/16	2 3/16
209SM3264	1/2	5000	3 3/4	2 1/4

Double End Heavy Duty HSS Drills

SERIES 211DE DOUBLE END - STUB FLUTED FRACTIONAL & WIRE GAUGE SIZES

Part Number	Drill Size	Dec. Equiv.	O/A Length	Flute Length
211DE0764	7/64"	1094	1 7/8"	1/2"
211DE0864	1/8	1250	2	1/2
211DE0964	9/64	1406	2	1/2
211DE1064	5/32	1562	2 1/16	1/2
211DE1264	3/16	1875	2 3/16	1/2
211DE1464	7/32	2188	2 3/8	1/2
211DE1664	1/4	2500	2 1/2	1/2
211DE0030	#30	1285	2	1/2

- High Speed Steel
- Short Flute Length
- 135°
- Split Point
- Bright Finish
- Automotive Use
- Sheet Metal Use

Packaging 12 Per Pack

Silver & Deming Drill Bits 1/2" Shank

SERIES 201SD ½" SHANK 6" LONG SILVER and DEMING

ALSO AVAILABLE IN JOBBER LENGTHS

Part Number	Drill Size	Dec. Equiv.	O/A Length	Flute Length
201SD3364	33/64"	5156	6"	2 3/4"
201SD3464	17/32	5312	6	2 3/4
201SD3564	35/64	5469	6	2 3/4
201SD3664	9/16	5625	6	2 3/4
201SD3764	37/64	5781	6	2 3/4
201SD3864	19/32	5938	6	2 3/4
201SD3964	39/64	6094	6	2 3/4
201SD4064	5/8	6250	6	2 3/4
201SD4164	41/64	6406	6	2 3/4
201SD4264	21/32	6562	6	2 3/4
201SD4364	43/64	6719	6	2 3/4
201SD4464	11/16	6875	6	2 3/4
201SD4564	45/64	7031	6	2 3/4
201SD4664	23/32	7188	6	2 3/4
201SD4764	47/64	7344	6	2 3/4
201SD4864	3/4	7500	6	2 3/4
201SD4964	49/64	7656	6	2 3/4
201SD5064	25/32	7812	6	2 3/4
201SD5164	51/64"	7969	6"	2 3/4"
201SD5264	13/16	8125	6	2 3/4
201SD5364	53/64	8281	6	2 3/4
201SD5464	27/32	8438	6	2 3/4
201SD5564	55/64	8594	6	2 3/4
201SD5664	7/8	8750	6	2 3/4
201SD5764	57/64	8906	6	2 3/4
201SD5864	29/32	9062	6	2 3/4
201SD5964	59/64	9219	6	2 3/4
201SD6064	15/16	9375	6	2 3/4
201SD6164	61/64	9531	6	2 3/4
201SD6264	31/32	9688	6	2 3/4
201SD6364	63/64	9844	6	2 3/4
201SD6464	1	1 0000	6	2 3/4
201SD6864	1 1/16	1 0625	6	2 3/4
201SD7264	1 1/8	1 1250	6	2 3/4
201SD7664	1 3/16	1 1875	6	2 3/4
201SD8064	1 1/4	1 2500	6	2 3/4
201SD8404	1 5/16	1 3125	6	2 3/4
201SD8864	1 3/8	1 3750	6	2 3/4
201SD9664	1 1/2	1 5000	6	2 3/4

FSI specializes in solving problems

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Heavy Duty Cobalt Steel Drills

SERIES 219CO FRACTIONAL SIZES

Part Number	Drill Size	Dec. Equiv.	O/A Length	Flute Length
219CO0464	1/16"	.0625	1 7/8"	7/8"
219CO0564	5/64	.0781	2	1
219CO0664	3/32	.0938	2 1/4	1 1/4
219CO0764	7/64	.1094	2 5/8	1 1/2
219CO0864	1/8	.1250	2 3/4	1 5/8
219CO0964	9/64	.1406	2 7/8	1 3/4
219CO1064	5/32	.1562	3 1/8	2
219CO1164	11/64	.1719	3 1/4	2 1/8
219CO1264	3/16	.1875	3 1/2	2 5/16
219CO1364	13/64	.2031	3 5/8	2 7/16
219CO1464	7/32	.2188	3 3/4	2 1/2
219CO1564	15/64	.2344	3 7/8	2 5/8
219CO1664	1/4	.2500	4	2 3/4
219CO1764	17/64	.2656	4 1/8	2 7/8
219CO1864	9/32	.2812	4 1/4	2 15/16
219CO1964	19/64	.2969	4 3/8	3 1/16
219CO2064	5/16	.3125	4 1/2	3 3/16
219CO2164	21/64	.3281	4 5/8	3 5/16
219CO2264	11/32	.3438	4 3/4	3 7/16
219CO2364	23/64	.3594	4 7/8	3 1/2
219CO2464	3/8	.3750	5	3 5/8
219CO2564	25/64	.3906	5 1/8	3 3/4
219CO2664	13/32	.4062	5 1/4	3 7/8
219CO2764	27/64	.4219	5 3/8	3 15/16
219CO2864	7/16	.4375	5 1/2	4 1/16
219CO2964	29/64	.4531	5 5/8	4 3/16
219CO3064	15/32	.4688	5 3/4	4 5/16
219CO3164	31/64	.4844	5 7/8	4 3/8
219CO3264	1/2	.5000	6	4 1/2

SERIES 220C0 COBALT WIRE SIZES JOBBER LENGTH.

- Heavy Duty
- Cobalt HSS
- Jobber Length
- 135° Point
- Split Point
- Gold Finish
- Suitable For
  - — Stainless Steel
  - — Hardening Grade Of Stainless Steel
  - — High Temperature Alloys
  - — Heat Treated Materials
  - — Abrasive Plastics
  - — Difficult Materials

Cobalt Silver & Deming 1/2" Shank Drills

SERIES 201CO ½" SHANK 6" LONG SILVER AND DEMING.

Part Number	Drill Size	Dec. Equiv.	O/A Length	Flute Length
201CO3464	17/32	.5312	6	2 3/4
201CO3664	9/16	.5625	6	2 3/4
201CO3864	19/32	.5938	6	2 3/4
201CO4064	5/8	.6250	6	2 3/4
201CO4264	21/32	.6562	6	2 3/4
201CO4464	11/16	.6875	6	2 3/4
201CO4664	23/32	.7188	6	2 3/4
201CO4864	3/4	.7500	6	2 3/4
201CO5064	25/32	.7812	6	2 3/4
201CO5264	13/16	.8125	6	2 3/4
201CO5464	27/32	.8438	6	2 3/4
201CO5664	7/8	.8750	6	2 3/4
201CO5864	29/32	.9062	6	2 3/4
201CO6064	15/16	.9375	6	2 3/4
201CO6264	31/32	.9688	6	2 3/4
201CO6464	1	1.0000	6	2 3/4
201CO6864	1 1/16	1.0625	6	2 3/4
201CO7264	1 1/8	1.1250	6	2 3/4
201CO7664	1 3/16	1.1875	6	2 3/4
201CO8064	1 1/4	1.2500	6	2 3/4
201CO8404	1 5/16	1.3125	6	2 3/4
201CO8864	1 3/8	1.3750	6	2 3/4
201CO9664	1 1/2	1.5000	6	2 3/4

- Cobalt Hss
- 6" Long 1/2" Shank
- Gold Finish
- Individually Packed
- Suitable For:
  - — Stainless Steel
  - — High Temperature Alloys
  - — Heat Treated Materials
  - — Difficult Materials

Titanium Nitride Coated Drills

Titanium Nitride coating is a new process giving a very hard surface to the drill bit. The surface is harder than Tungsten Carbide. Improves surface finish. Performance is incredible. Very long drill bit life, up to 8 times. With 135° split point suitable for stainless steel.

SERIES 255SP FRACTIONAL SIZES

Part Number	Drill Size	Dec. Equiv.	O/A Length	Flute Length
255SP0364	3/64"	.0469	1 3/4"	3/4"
255SP0464	1/16	.0625	1 7/8	7/8
255SP0564	5/64	.0781	2	1
255SP0664	3/32	.0938	2 1/4	1 1/4
255SP0764	7/64	.1094	2 5/8	1 1/2
255SP0864	1/8	.1250	2 3/4	1 5/8
255SP0964	9/64	.1406	2 7/8	1 3/4
255SP1064	5/32	.1562	3 1/8	2
255SP1164	11/64	.1719	3 1/4	2 1/8
255SP1264	3/16	.1875	3 1/2	2 5/16
255SP1364	13/64	.2031	3 5/8	2 7/16
255SP1464	7/32	.2188	3 3/4	2 1/2
255SP1564	15/64	.2344	3 7/8	2 5/8
255SP1664	1/4	.2500	4	2 3/4
255SP1764	17/64	.2656	4 1/8	2 7/8
255SP1864	9/32"	.2812	4 1/4"	2 15/16"
255SP1964	19/64	.2969	4 3/8	3 1/16
255SP2064	5/16	.3125	4 1/2	3 3/16
255SP2164	21/64	.3281	4 5/8	3 5/16
255SP2264	11/32	.3438	4 3/4	3 7/16
255SP2364	23/64	.3594	4 7/8	3 1/2
255SP2464	3/8	.3750	5	3 5/8
255SP2564	25/64	.3906	5 1/8	3 3/4
255SP2664	13/32	.4062	5 1/4	3 7/8
255SP2764	27/64	.4219	5 3/8	3 15/16
255SP2864	7/16	.4375	5 1/2	4 1/16
255SP2964	29/64	.4531	5 5/8	4 3/16
255SP3064	15/32	.4688	5 3/4	4 5/16
255SP3164	31/64	.4844	5 7/8	4 3/8
255SP3264	1/2	.5000	6	4 1/2

- Jobber Length
- Straight Shank
- 135° Split Point
- Bright Gold Finish
- Suitable For:
  - — Tool Steel
  - — Alloys
  - — Stainless Steel
  - — Cast Iron
  - — Hard To Machine Materials

MADE IN USA

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HSS Ground Thread Hand Taps

SERIES 262NF–263NF–264NF MACHINE SCREW HIGH SPEED STEEL TAPS

Taper	Stock Number Plug	Bottoming	Machine Screw Threads	No. of Flute	Ground Thread Limit	Overall Length	Thread Length	Use Drill Size
262NF0000	263NF0000	264NF0000	0-80 NF	2	H1	1 3/8"	5/16"	3/64
262NC0001	263NC0001	264NC0001	1 64 NC	2	H1	1 11/16	3/8	53
262NF0001	263NF0001	264NF0001	1 72 NF	2	H2	1 11/16	3/8	53
262NC0002	263NC0002	264NC0002	2-56 NC	3	H2	1 3/4	7/16	50
262NF0002	263NF0002	264NF0002	2-64 NF	3	H2	1 3/4	7/16	50
262NC0003	263NC0003	264NC0003	3-48 NC	3	H2	1 13/16	1/2	47
262NF0003	263NF0003	264NF0003	3-56 NF	3	H2	1 13/16	1/2	45
262NC0004	263NC0004	264NC0004	4-40 NC	3	H2	1 7/8	9/16	43
262NF0004	263NF0004	264NF0004	4-48 NF	3	H2	1 7/8	9/16	42
262NC0005	263NC0005	264NC0005	5-40 NC	3	H2	1 15/16	7/8	38
262NF0005	263NF0005	264NF0005	5-44 NF	3	H2	1 15/16	7/8	37
262NC0006	263NC0006	264NC0006	6-32 NC	3	H2	2	11/16	35
262NF0006	263NF0006	264NF0006	6-40 NF	3	H2	2	11/16	33
262NC0008	263NC0008	264NC0008	8-32 NC	4	H3	2 1/8	3/4	29
262NF0008	263NF0008	264NF0008	8-36 NF	4	H3	2 1/8	3/4	29
262NC0010	263NC0010	264NC0010	10-24 NC	4	H3	2 3/8	7/8	25
262NF0010	263NF0010	264NF0010	10-32 NF	4	H3	2 3/8	7/8	21
262NC0012	263NC0012	264NC0012	12-24 NC	4	H3	2 3/8	15/16	16
262NF0012	263NF0012	264NF0012	12-28 NF	4	H3	2 3/8	15/16	14

TAPER
8-10 Chanfered Threads For Tough Threading Works

PLUG
3-5 Chanfered Threads For General Purpose Work

BOTTOMING
1-1½ Chanfered Threads For Threading The Bottom Of The Hole.

SERIES 265 NC – 266 NC – 267 NC FRACTIONAL HIGH SPEED STEEL TAPS

Taper	Stock Number Plug	Bottoming	Machine Screw Threads	No. of Flute	Ground Thread Limit	Overall Length	Thread Length	Use Drill Size
265NC0310	266NC0310	267NC0310	1/4-20 NC	4	H3	2 1/2"	1"	7
265NF0312	266NF0312	267NF0312	1/4-28 NF	4	H3	2 1/2	1	3
265NC0315	266NC0315	267NC0315	5/16-18 NC	4	H3	2 23/32	1 1/8	F
265NF0316	266NF0316	267NF0316	5/16-24 NF	4	H3	2 23/32	1 1/8	I
265NC0318	266NC0318	267NC0318	3/8-16 NC	4	H3	2 15/16	1 1/4	5/16
265NF0319	266NF0319	267NF0319	3/8-24 NF	4	H3	2 15/16	1 1/4	Q
265NC0320	266NC0320	267NC0320	7/16-14 NC	4	H3	3 5/32	1 7/16	U
265NF0321	266NF0321	267NF0321	7/16-20 NF	4	H3	3 5/32	1 7/16	25/64
265NC0322	266NC0322	267NC0322	1/2-13 NC	4	H3	3 3/8	1 21/32	27/64
265NF0323	266NF0323	267NF0323	1/2-20 NF	4	H3	3 3/8	1 21/32	29/64
265NC0325	266NC0325	267NC0325	9/16-12 NC	4	H3	3 19/32	1 21/32	31/64
265NF0326	266NF0326	267NF0326	9/16-18 NF	4	H3	3 19/32	1 21/32	33/64
265NC0327	266NC0327	267NC0327	5/8-11 NC	4	H3	3 13/16	1 13/16	17/32
265NF0328	266NF0328	267NF0328	5/8-18 NF	4	H3	3 13/16	1 13/16	37/64
265NS0329	266NS0329	267NS0329	11/16-11 NS	4	H3	4 1/32	1 13/16	19/32
265NS0330	266NS0330	267NS0330	11/16-16 NS	4	H3	4 1/32	1 13/16	5/8
265NC0331	266NC0331	267NC0331	3/4-10 NC	4	H3	4 1/4	2	21/32
265NF0332	266NF0332	267NF0332	3/4-16 NF	4	H3	4 1/4	2	11/16
265NC0333	266NC0333	267NC0333	7/8-9 NC	4	H4	4 11/16	2 7/32	49/64
265NF0334	266NF0334	267NF0334	7/8-14 NF	4	H4	4 11/16	2 7/32	13/16
265NC0335	266NC0335	267NC0335	1-8 NC	4	H4	5 1/8	2 1/2	7/8

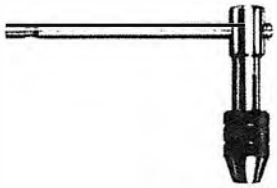
Tap & Drill Set

Part	Description
TD-SP-019	19 Pcs HS Taps And Drill Set Heavy Duty HS Drills

Tap Wrenches & Die Stocks

- Top Quality
- Industrial Grade Steel

Sold individually



T-Handle Tap Wrench

Part Number	Size	Pack
271TT001	#0 - 1/4"	1
271TT002	#10 - 3/8"	1
271TT003	#12 - 1/2"	1

Round die Stocks 3 Screws

Part Number	O.D. Size	Pack
2690D0001	13/16"	1
2690D0002	1	1
2690D0003	1 1/2	1
2690D0004	2	1

Adjustable Tap/Reamer Wrench

Part Number	Capacity	Size	Pack
270TW0000	#0-1/4"	TW0	1
270TW0004	#0-3/8	TW4	1
270TW0005	#7-1/2	TW5	1
270TW0006	#7-3/4	TW6	1
270TW0007	1-1/8	TW7	1

Communication is the key to FSI's success

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Ship Head Auger Bits 17" Long

SERIES 303BU SHIP AUGER BULK PACK

Part Number	Bore Dia.	Size in 16ths	O.A. Length
303BU2464	3/8"	6	17"
303BU2864	7/16	7	17
303BU3264	1/2	8	17
303BU3664	9/16	9	17
303BU4064	5/8	10	17
303BU4464	11/16	11	17
303BU4864	3/4	12	17
303BU5264	13/16	13	17
303BU5664	7/8	14	17
303BU6064	15/16	15	17
303BU6464	1	16	17
303BU7264	1 1/8	18	17
303BU8064	1 1/4	20	17
303BU8864	1 3/8	22	17
303BU9664	1 1/2	24	17

Series 303BU are sold with Rust Protection Sleeve

SERIES 303SL SHIP AUGER HANGABLE POUCH

Part Number	Bore Dia.	Size in 16ths	O.A. Length
303SL1464	3/8"	6	17"
303SL2864	7/16	7	17
303SL3264	1/2	8	17
303SL3664	9/16	9	17
303SL4064	5/8	10	17
303SL4464	11/16	11	17
303SL4864	3/4	12	17
303SL5264	13/16	13	17
303SL5664	7/8	14	17
303SL6064	15/16	15	17
303SL6464	1	16	17
303SL7264	1 1/8	18	17
303SL8064	1 1/4	20	17
303SL8864	1 3/8	22	17
303SL9664	1 1/2	24	17

Series 303SL are sold with Hangable Pouch.

- 12" Twist Length
- 7/16 Hex Shank Above 9/16"
- 3/8 Hex Shank From 3/8 To 1/2"
- Heat Treated
- Machine Ground Hollows
- Deep Throat
- Single Twist
- Single Cutter
- Side Lip
- Med Screw Point
- Sold Individually

Electricians Power Wood Bits

These power bits are specifically designed to fit in between building studs for the installation of conduits and wires. Ideal use with angle power drills.

Series 304BU are packaged with Rust Protection Sleeve.

- Sold Individually

SERIES 304BU ELECTRICIANS' POWER BITS

Part Number	Bore Diameter	Shank
304BU4064	5/8"	5/16"
304BU4464	11/16	5/16
304BU4864	3/4	5/16
304BU5264	13/16	5/16
304BU5664	7/8	5/16
304BU6464	1	5/16
304BU7264	1 1/8	7/16
304BU8064	1 1/4	7/16

- 8 1/2 Overall Length
- 5 1/2 Twist Length
- Heat Treated
- Machine Ground Hollows
- Double Twist
- Single Spur
- Medium Screw Point
- Shank With 2 Set Screw Recesses For Use With Power Bit Extensions.

Pipe Size Power Wood Bits

These Power Bits are specifically designed for boring holes where a smooth finish is required. Ideal for Plumbing, Heating, Air Conditioning.

Series 305BU are packaged with Rust Protection Sleeve.

SERIES 305BU PLUMBER POWER BITS

Part Number	Bore Diameter	Shank
305BU4864	3/4"	7/16"
305BU5664	7/8	7/16
305BU6464	1	7/16
305BU7264	1 1/8	7/16
305BU8064	1 1/4	7/16
305BU8864	1 3/8	7/16
305BU9664	1 1/2	7/16

- Sold Individually

- 6 1/2" Overall Length
- 4" Twist Length
- Heat Treated
- Machine Ground Hollows
- Double Twist
- Double Spur
- Medium Screw
- Shank With 2 Set Screw Recesses For Use With Power Bit Extensions.

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Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
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FAX (610) 692-8151

Wood Drills - Forstner Bits

SERIES 310FB FORSTNER

Part Number	SIZE	SHANK
310FB1664	1/4	3/8
310FB2464	3/8	3/8
310FB3264	1/2	3/8
310FB4064	5/8	3/8
310FB4864	3/4	3/8
310FB5664	7/8	3/8
310FB6464	1	3/8
310FB7264	1 1/8	3/8
310FB8064	1 1/4	3/8
310FB8864	1 3/8	3/8
310FB9664	1 1/2	3/8
310F10464	1 5/8	3/8

Part Number	SIZE	SHANK
310F11264	1 3/4	3/8
310F12064	1 7/8	3/8
310F12864	2	3/8
310F13664	2 1/8	3/8
310F14464	*2 1/4	1/2
310F15264	*2 3/8	1/2
310F16064	*2 1/2	1/2
310F16864	*2 5/8	1/2
310F17664	*2 3/4	1/2
310F18464	*2 7/8	1/2
310F19264	*3	1/2
310F20064	*3 1/8	1/2

* Sizes 2 1/4" and Over Have Multi Spur Cutting Edge – Sold Individually

Single Flute Countersinks

HIGH SPEED STEEL

60° Code No.	82° Code No.	90° Code No.	100° Code No.	Size	Shank Diameter	Shank Length	Overall Length
C1-60-1264	C1-82-1264	C1-90-1264	C1-100-1264	3/16"	3/16"	3/4"	1 1/2"
C1-60-1664	C1-82-1664	C1-90-1664	C1-100-1664	3/8"	1/4"	3/4"	2"
C1-60-2064	C1-82-2064	C1-90-2064	C1-100-2064	5/16"	1/4"	1"	2"
C1-60-2464	C1-82-2464	C1-90-2464	C1-100-2464	3/8"	1/4"	1"	2"
C1-60-3264	C1-82-3264	C1-90-3264	C1-100-3264	1/2"	1/4"	1"	2"
C1-60-4064	C1-82-4064	C1-90-4064	C1-100-4064	5/8"	3/8"	1 1/8"	2 3/4"
C1-60-4864	C1-82-4864	C1-90-4864	C1-100-4864	3/4"	3/8"	1 5/16"	2 3/4"
C1-60-5064	C1-82-5064	C1-90-5064	C1-100-5064	7/8"	1/2"	1 5/16"	2 3/4"
C1-60-6464	C1-82-6464	C1-90-6464	C1-100-6464	1"	1/2"	1 5/16"	2 3/4"

3-Flute Center Reamers

HIGH SPEED STEEL ***NEW***

60° Code No.	82° Code No.	90° Code No.	100° Code No.	Size	Shank Diameter	Shank Length	Overall Length
R3-60-1664	R3-82-1664	R3-90-1664	R3-100-1664	1/4"	3/16"	3/4"	1 1/2"
R3-60-2464	R3-82-2464	R3-90-2464	R3-100-2464	3/8"	1/4"	7/8"	2 3/4"
R3-60-3264	R3-82-3264	R3-90-3264	R3-100-3264	1/2"	3/8"	1"	2"
R3-60-4064	R3-82-4064	R3-90-4064	R3-100-4064	5/8"	3/8"	1"	2 1/4"
R3-60-4864	R3-82-4864	R3-90-4864	R3-100-4864	3/4"	1/2"	1 1/4"	2 5/8"
R3-60-6464	R3-82-6464	R3-90-6464	R3-100-6464	1"	1/2"	1 1/4"	2 3/4"

Same day color match - In house painting

Fastener Systems, Inc.
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(800) 232-5060
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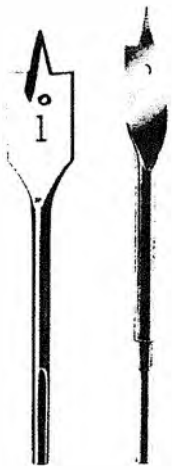
FAX (610) 692-8151

Spade Point Power Wood Bits

- Cold Forged
- Full Length Treated
- Machine Finish Cutting Groove
- Rust Protection
- Precision Ground Hex Shank
- Individually Pouched

PACKAGING INFORMATION SERIES 300SB
6 Per Pack
Series 301SB
1 Per Pack.



SERIES 300SB SPADE BITS 6″ LONG

Part Number	Drill Size	Overall Length
300SB1664	1/4″	6″
300SB2064	5/16	6
300SB2464	3/8	6
300SB2864	7/16	6
300SB3264	1/2	6
300SB3664	9/16	6
300SB4064	5/8	6
300SB4464	11/16	6
300SB4864	3/4	6
300SB5264	13/16	6
300SB5664	7/8	6
300SB6064	15/16	6
300SB6464	1	6
300SB7264	1 1/8	6
300SB8064	1 1/4	6
300SB8864	1 3/8	6
300SB9664	1 1/2	6

SERIES 301SB SPADE BITS 16″ LONG

Part Number	Drill Size	Overall Length
301SB1664	1/4″	16″
301SB2464	3/8	16
301SB3264	1/2	16
301SB4064	5/8	16
301SB4464	11/16	16
301SB4864	3/4	16
301SB5664	7/8	16
301SB6464	1	16
301SB7264	1 1/8	16
301SB8864	1 3/8	16

	Extension For Spade Bit
307BT1214	12″ Extension

6 Pc. Set 6″ Long
300-ST-06
Including 3/16 - 1/4 - 5/16 - 3/8 - 7/8 - 1

Ship Auger Wood Bits

- 4″ Twist Length
- 7/16 Hex Shank
- Heat Treated
- Machine Ground Hollows
- Deep Throat
- Single Twist
- Single Cutter
- Side Lip
- Med. Screw Point

PACKAGED INDIVIDUALLY

SERIES 302BU 6″ SHIP AUGER BULK PACK

Part Number	Bore Dia.	Size in 16ths	O.A. Length
302BU3264	1/2″	8	6″
302BU3664	9/16	9	6
302BU4064	5/8	10	6
302BU4464	11/16	11	6
302BU4864	3/4	12	6
302BU5264	13/16	13	6
302BU5664	7/8	14	6
302BU6064	15/16	15	6
302BU6464	1	16	6
302BU7264	1 1/8	18	6
302BU8064	1 1/4	20	6
302BU8864	1 3/8	20	6
302BU9664	1 1/2	24	6

SERIES 302SL 6″ SHIP AUGER POUCHED

Part Number	Bore Dia.	Size in 16ths	O.A. Length
302SL3264	1/2″	8	6″
302SL3664	9/16	9	6
302SL4064	5/8	10	6
302SL4464	11/16	11	6
302SL4864	3/4	12	6
302SL5264	13/16	13	6
302SL5664	7/8	14	6
302SL6064	15/16	15	6
302SL6464	1	16	6
302SL7264	1 1/8	18	6
302SL8064	1 1/4	20	6
302SL8864	1 3/8	20	6
302SL9664	1 1/2	24	6

Power Bit Extensions For Auger & Multispur Bits

- Hex Wrench Included
- Two Set Screws
- For Use With 3/8 Electric Drills

SERIES 307BT EXTENSIONS

Part Number	Description	For Shank
307BT1418	1/4 x 18 Extension	1/4″
307BT5618	5/16 x 18 Extension	5/16
307BT51624	5/16 x 24 Extension	5/16

SERIES 307BT EXTENSIONS

Part Number	Description	For Shank
307BT7609	7/16 x 9 1/2 Extensions	7/16″
307BT7612	7/16 x 12 Extensions	7/16
307BT7618	7/16 x 18 Extensions	7/16
307BT7624	7/16 x 24 Extensions	7/16

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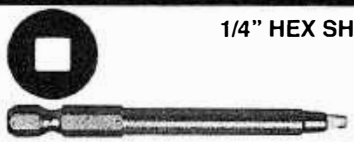
INDUSTRIAL SCREWDRIVER BITS

SQUARE RECESS INSERT BITS

1/4" HEX SHANK



POINT SIZE	x	LENGTH	DESCRIPTION
#1	x	2"	SQUARE RECESS POWER
#1	x	2-3/4"	SQUARE RECESS POWER
#1	x	3"	SQUARE RECESS POWER
#1	x	3-1/2"	SQUARE RECESS POWER
#1	x	4"	SQUARE RECESS POWER
#1	x	5"	SQUARE RECESS POWER
#1	x	6"	SQUARE RECESS POWER
#2	x	2"	SQUARE RECESS POWER
#2	x	2-1/2"	SQUARE RECESS POWER
#2	x	2-3/4"	SQUARE RECESS POWER
#2	x	3"	SQUARE RECESS POWER
#2	x	3-1/2"	SQUARE RECESS POWER
#2	x	4"	SQUARE RECESS POWER
#2	x	5"	SQUARE RECESS POWER
#2	x	6"	SQUARE RECESS POWER
#3	x	2"	SQUARE RECESS POWER
#3	x	2-3/4"	SQUARE RECESS POWER
#3	x	3-1/2"	SQUARE RECESS POWER
#3	x	4"	SQUARE RECESS POWER
#3	x	5"	SQUARE RECESS POWER
#3	x	6"	SQUARE RECESS POWER

FITS CARLISLE NEW GENERATION FASTENERS

PHILLIPS® POWER BITS

1/4" HEX SHANK

POINT SIZE	x	LENGTH	DESCRIPTION
#1	x	2"	PHILLIPS POWER
#1	x	2-3/4"	PHILLIPS POWER
#1	x	3"	PHILLIPS POWER
#1	x	3-1/2"	PHILLIPS POWER
#1	x	4"	PHILLIPS POWER
#1	x	5"	PHILLIPS POWER
#1	x	6"	PHILLIPS POWER
#2	x	2"	PHILLIPS POWER
#2	x	2-3/4"	PHILLIPS POWER
#2	x	3"	PHILLIPS POWER
#2	x	3-1/2"	PHILLIPS POWER
#2	x	4"	PHILLIPS POWER
#2	x	5"	PHILLIPS POWER
#2	x	6"	PHILLIPS POWER
#3	x	2"	PHILLIPS POWER
#3	x	2-3/4"	PHILLIPS POWER
#3	x	3"	PHILLIPS POWER
#3	x	3-1/2"	PHILLIPS POWER
#3	x	4"	PHILLIPS POWER
#3	x	5"	PHILLIPS POWER
#3	x	6"	PHILLIPS POWER

PHILLIPS® INSERT BITS

1/4" HEX SHANK

POINT SIZE	x	LENGTH	DESCRIPTION
#0	x	1"	PHILLIPS INSERT
#1	x	1"	PHILLIPS INSERT
#2	x	1"	PHILLIPS INSERT
#3	x	1"	PHILLIPS INSERT

STAR POWER BITS FOR TORX® SCREWS

1/4" HEX SHANK

POINT SIZE	x	LENGTH	DESCRIPTION
T10	x	2"	STAR POWER
T15	x	2"	STAR POWER
T20	x	2"	STAR POWER
T25	x	2"	STAR POWER
T27	x	2"	STAR POWER
T30	x	2"	STAR POWER
T40	x	2"	STAR POWER

SOCKET EXTENSION

1/4" SHANK TO FIT 1/4" SQUARE DRIVE

DESCRIPTION
SOCKET EXTENSION

SHANK HEX SIZE	x	TOTAL LENGTH	x	MALE SQUARE
1/4"	x	1"	x	1/4"
1/4"	x	1-1/4"	x	1/4"
1/4"	x	2"	x	1/4"
1/4"	x	3"	x	1/4"
1/4"	x	4"	x	1/4"
1/4"	x	6"	x	1/4"
1/4"	x	8"	x	1/4"

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POSIDRIV® IS A REGISTERED TRADEMARK OF PHILLIPS INTERNATIONAL Co.
TORX® IS A REGISTERED TRADEMARK OF CAMCAR, DIV. OF TEXTRON.

We put the *fast* in fasteners

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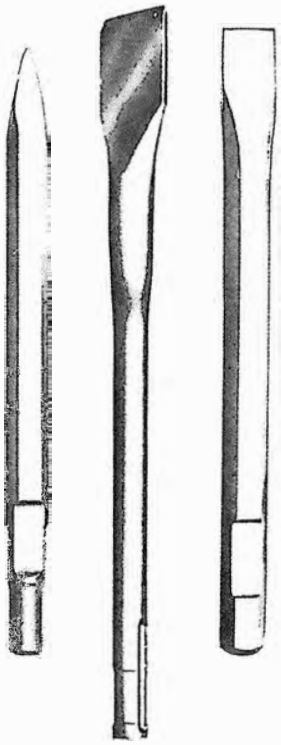
Chisels For Rotary & Demolition Hammers

SERIES 714 BP – 714 FC – 714 SC
CHISELS FOR ALL SPLINE ROTO HAMMERS AND BOSCH DEMO HAMMER 11306.

Part Number	Size	Description	Quantity Per Pack
714BP0012	12"	Bullpoint 12" Long	5
714BP0018	18"	Bullpoint 18" Long	1
714FC0012	1"x12"	Flat Chisel 1"x12"	5
714FC0018	1"x18"	Flat Chisel 1"x18"	1
714SC0012	2"x12"	Scaling Chisel 2"x12"	5
714SC0018	2"x18"	Scaling Chisel 2"x18"	1



SERIES 714TE
CHISELS FOR HILTI TE 52 – TE 60 – TE 72 – TE 92

Part Number	Size	Description	Quantity Per Pack
714TEBP12	12"	Bullpoint 12" Long	5
714TEBP18	18"	Bullpoint 18" Long	1
714TEFC12	1"x12"	Flat Chisel 1"x12"	5
714TEFC18	1"x18"	Flat Chisel 1"x18"	1
714TESC12	2"x12"	Scaling Chisel 2" x12"	5
714TESC18	2"x18"	Scaling Chisel 2"x18"	1

- Precision Ground
- Cutting Edge Individually Sharpened
- Heat Treated Point And Surface.

SERIES 714DH
DEMOLITION CHISELS FOR BOSCH MODELS 11302 – BOSCH 11305

Part Number	Size	Description	Quantity Per Pack
714DHBP12	12"	Bullpoint Chisel 12"	5
714DHBP18	18"	Bullpoint Chisel 18"	1
714DHFC12	1"x12"	Flat Chisel 1"x12"	5
714DHFC18	1"x18"	Flat Chisel 1"x18"	1

BUSHING HEAD AND DRIVERS.

Part Number	Description
714BH1212	1'-1/2' x 1'/2' Bushing Head Taper Type
714BDSP12	Bushing Driver For Spline
714BDTE12	Bushing Driver For HILTI-TE-60-72-92

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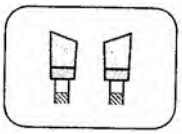
Hard Body Carbide Tipped Circular Saw Blades

ITM Industrial grade, hard body carbide tipped circular saw blade, stay sharp 40 times longer than the best steel blades.

3 BASIC BLADE TYPES

Framing – Rip

Designed for fast and accurate ripping along the grain in hard or soft woods where a smooth cross cut is not necessary.



Rip & Crosscut

A multi-purpose blade for ripping, crosscutting and mitering in hard and soft woods, plywood and composition materials.

Finish & Trim

Especially designed for crosscutting and mitering in materials where a very smooth cut is necessary, also cuts aluminum and other non-ferrous metals.

- Hard Body 38–42 Rc
- K20 Carbide Grade
- Packed 25 pc. in Self Display Boxes
- 5/8" Arbor Hole With Knockout For Diamond Arbor
- Alternate Top Bevelled Tooth
- Resharpened By Professionals Only
- Made in Europe

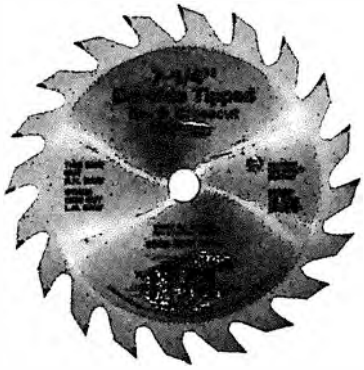
CATALOG NUMBER	BLADE DIA. INCHES	DESCRIPTION	NUMBER OF TEETH	ARBOR HOLE INCHES
CS-58-612	6-1/2"	Rip & Crosscut	12	5/8"
CS-58-640	6-1/2	Finish & Trim	40	5/8
CS-58-712	7-1/4	Framing–Rip	12	5/8
CS-58-720	7-1/4	Rip & Crosscut	20	5/8
CS-58-740	7-1/4	Finish & Trim	40	5/8
CS-58-824	8-1/4	Rip & Crosscut	20	5/8
CS-58-840	8-1/4	Finish & Trim	40	5/8
CS-58-940	9	Finish & Trim	40	5/8
CS-34-140	10	Finish & Trim	40	5/8
CS-34-160	10	Finish & Trim	60	5/8

STANDARD, CARBIDE TIPPED CIRCULAR SAW BLADES

CATALOG NUMBER	NUMBER OF TEETH	BLADE DIA INCHES	ARBOR HOLE INCHES
DS-58-724	24	7-1/4"	5/8"

Recommended for sawing, wood, transite, masonite, formica, siding and roofing.

- Packed 25 Blades in Self Display Boxes
- Made in Europe
- 5/8" Arbor Hole With Knockout For Diamond Arbor
- Not Recommended For Use on Masonry & Metals



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Best Rotary Percussion Masonry Bits

- Heavy Duty
- ANSI Standard
- Unique Percussion Grade of Carbide of Tungsten Specially Designed for Rotary Hammer Drill Bits.
- Unique Spiral Flute for Fast Removal of Dust. No Blow Back or Compacting.
- Unique Ground Flute
- Unique Process of Heat Treatment for Best Resistance to the Impact.
- Unique Shank Design to Prevent Slip in the Chuck.
- Polished Flute.
- Unique Grinding of Carbide Tip for Fast Penetration.
- Suitable for
  - — Concrete
  - — Stones
  - — Marble
  - — Granite

Packaged in Individual Pouches.

These Drill Bits are made for machines with percussion. They will not perform with rotation only.

HEAVY DUTY

SERIES 700 STRAIGHT SHANK ROTARY HAMMER BITS

Part Number	Diameter	O/A Length	Drilling Depth	Size Shank	Pack Quantity
700040864	1/8"	3"	1 1/2"	1/8"	5
700041064	5/32	3 1/8	1 1/2	5/32	5
700041264	3/16	3 3/8	1 3/4	3/16	5
700041464	7/32	3 3/4	2	7/32	5
700041664	1/4	4	2 1/2	1/4	5
700041864	9/32	4	2 1/2	9/32	5
700042064	5/16	4 3/4	3 1/2	5/16	5
6" LONG					
700061264	3/16	6	4	3/16	5
700061664	1/4	6	4	1/4	5
700062064	5/16	6	4	5/16	5
700062464	3/8	6	4	3/8	5
700062864	7/16	6	4	3/8	1
700063264	1/2	6	4	Hex 3/8	1
700063664	9/16	6	4	Hex 3/8	1
700064064	5/8	6	4	Hex 3/8	1
700064464	11/16	6	4	Hex 1/2	1
700064864	3/4	6	4	Hex 1/2	1
700065664	7/8	6	4	Hex 1/2	1
700066464	1	6	4	Hex 1/2	1
13" LONG					
700131664	1/4	13	10	1/4	1
700132064	5/16	13	10	5/16	1
700132464	3/8	13	10	3/8	1
700132864	7/16	13	10	3/8	1
700133264	1/2	13	10	Hex 3/8	1
700133664	9/16	13	10	Hex 3/8	1
700134064	5/8	13	10	Hex 3/8	1
700134464	11/16	13	10	Hex 1/2	1
700134864	3/4	13	10	Hex 1/2	1
700135664	7/8	13	10	Hex 1/2	1
700136464	1	13	10	Hex 1/2	1
20" LONG					
700201664	1/4	20	16	1/4	1
700202064	5/16	20	16	5/16	1
700202464	3/8	20	16	3/8	1
700202864	7/16	20	16	3/8	1
700203264	1/2	20	16	3/8	1
700204064	5/8	20	16	Hex 3/8	1
700204864	3/4	20	16	Hex 1/2	1
700205664	7/8	20	16	Hex 1/2	1
700206464	1	20	16	Hex 1/2	1
24" LONG					
700241664	1/4	24	20	Hex 1/2	1
700242464	3/8	24	20	Hex 1/2	1
700243264	1/2	24	20	Hex 1/2	1
700244064	5/8	24	20	Hex 1/2	1
700244864	3/4	24	20	Hex 1/2	1
700245664	7/8	24	20	Hex 1/2	1
700246464	1	24	20	Hex 1/2	1
SPECIAL SIZES					
700307264	1 1/8	16	12	Hex 1/2	1
700308064	1 1/4	16	12	Hex 1/2	1
700308864	1 3/8	16	12	Hex 1/2	1
700309664	1 1/2	16	12	Hex 1/2	1

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CARBIDE HAMMER DRILL BITS

SDS - PLUS

SERIES 715S

PART NUMBER	DRILL SIZE	O/A LENGTH	DRILLING DEPTH
715S41064	5/32"	4-1/2"	2"
715S61064	5/32"	6-1/2"	4"
715S41264	3/16"	4-1/2"	2"
715S61264	3/16"	6-1/2"	4"
715S81264	3/16"	8"	6"
715S10316	3/16"	10"	7-1/2"
715S12316	3/16"	12"	9"
715S14316	3/16"	14"	12"
715S16316	3/16"	16-1/2"	14"
715S41464	7/32"	4-1/2"	2"
715S61464	7/32"	6-1/2"	4"
715S81464	7/32"	8-1/2"	6"
715S10464	7/32"	10"	7-1/2"
715S11464	7/32"	11"	9"
715S14732	7/32"	14"	12"
715S16464	7/32"	16"	14"
715S41664	1/4"	4-1/2"	2"
715S61664	1/4"	6-1/2"	4"
715S91664	1/4"	9"	6"
715S10014	1/4"	10"	7-1/2"
715S14014	1/4"	14"	11"
715S20014	1/4"	20"	17"
715S42064	5/16"	4-1/2"	2"
715S62064	5/16"	6-1/2"	4"
715S92064	5/16"	9"	6-1/2"
715S62464	3/8"	6-1/2"	4"
715S92464	3/8"	9"	6"
715S14038	3/8"	14"	11"
715S18038	3/8"	18	14"
715S92864	7/16"	9"	6"
715S14716	7/16"	14"	11"
715S63264	1/2"	6-1/2"	4"
715S93264	1/2"	9"	6"
715S13264	1/2"	10"	7-1/2"
715S14012	1/2"	14"	10"
715S18012	1/2"	18"	14"
715S22012	1/2"	22"	18"
715S43664	9/16"	9"	6"
715S64064	5/8"	6-1/2"	4"
715S94064	5/8"	9"	6"
715S14058	5/8"	14"	10"
715S18058	5/8"	18"	14"
715S22058	5/8"	22"	18"
715S94464	11/16"	9"	5-1/2"
715S94864	3/4"	9"	5-1/2"
715S14034	3/4"	14"	10"
715S18034	3/4"	18"	14"
715S22034	3/4"	22"	18"

ROTARY HAMMER DRILL BITS

PART NUMBER	DRILL SIZE	O/A LENGTH	DRILLING DEPTH
715S95464	27/32"	9"	5-1/2"
715S95664	7/8"	9"	5-1/2"
715S14078	7/8"	14"	10"
715S18078	7/8"	18"	14"
715S96464	1"	9"	5-1/2"
715S14001	1"	14"	10"
715S18001	1"	18"	14"
715S60012	15/32" (12mm)	6-1/2"	4"
715S90012	15/32" (12mm)	9"	5-1/2"

- Special Tungsten Carbide Tip.
- Copper Silver Brazing of Carbide Head.
- Special Flute Design Improves Penetration without Blow Back or Compacting.
- ANSI Specification.
- Made in Europe.
- Suitable for:
  - Masonry
  - Stone
  - Brick
  - Aggregates

SDS BITS CAN BE USED IN ALL OF THE FOLLOWING HAMMER TOOLS:

AEG®
BOSCH®
B&D®
HILTI®
HITACHI®
WACKER®
METABO®
MILWAUKEE®
MAKITA®
RYOBI®
RAMSET®
RED HEAD®
KANGO®

ALSO AVAILABLE IN SPLINE SHANK

NUT SETTERS

MAGNETIC NUT SETTER 2-9/16" LONG

- 1PC. CONSTRUCTION.
- 1/4" HEX SHANK.

HEX HEAD SIZE	x	LENGTH	DESCRIPTION
1/4"	x	2-9/16"	MAGNETIC NUT SETTER
5/16"	x	2-9/16"	MAGNETIC NUT SETTER
3/8"	x	2-9/16"	MAGNETIC NUT SETTER
7/16"	x	2-9/16"	MAGNETIC NUT SETTER

MAGNETIC NUT SETTER 4" - 6" LONG

- 1PC. CONSTRUCTION.
- 1/4" HEX SHANK.

HEX HEAD SIZE	x	LENGTH	DESCRIPTION
1/4"	x	4"	MAGNETIC NUT SETTER
1/4"	x	6"	MAGNETIC NUT SETTER
5/16"	x	4"	MAGNETIC NUT SETTER
5/16"	x	6"	MAGNETIC NUT SETTER
3/8"	x	4"	MAGNETIC NUT SETTER
3/8"	x	6"	MAGNETIC NUT SETTER

FSI specializes in solving problems

mid-state

triple-connector indoor-outdoor 3-wire grounded extension cords

Cat. No.	Length	Amps	Watts
12/3 SJT W-A .475 O.D. ORANGE VINYL CORD			
TC 22	2'	15	1875
TC 152	15'	15	1875
TC 252	25'	15	1875
TC 502	50'	15	1875
TC 1002	100'	15	1875
14/3 SJT W-A .390 O.D. ORANGE VINYL CORD			
TC 154	15'	15	1875
TC 254	25'	15	1875
TC 504	50'	15	1875
TC 1004	100'	13	1625
14/3 SJOW-A UL .390 O.D. BLACK RUBBER CORD			
TCR 154	15'	15	1875
TCR 254	25'	15	1875
TCR 504	50'	15	1875
TCR 1004	100'	13	1625

TC/TCR
TCB SERIES

12/3 SJEOW-A .475 O.D. BLUE UL LISTED 3-WIRE CORD FLEXIBLE TO -58°F			
TCB 22	2'	15	1875
TCB 152	15'	15	1875
TCB 252	25'	15	1875
TCB 502	50'	15	1875
TCB 1002	100'	15	1875
14/3 SJEOW-A .390 O.D. BLUE UL LISTED 3-WIRE CORD FLEXIBLE TO -58°F			
TCB 154	15'	15	1875
TCB 254	25'	15	1875
TCB 504	50'	15	1875
TCB 1004	100'	13	1625

blue SUN & SNO all weather indoor-outdoor 3-wire grounded extension cords remains flexible to -58° F

Cat. No.	Length	Amps	Watts
10/3 SJEOW-A .569 O.D. BLUE UL LISTED 3-WIRE CORD			
SS3 110	10'	15	1875
SS3 1510	15'	15	1875
SS3 2510	25'	15	1875
SS3 5010	50'	15	1875
SS3 1010	100'	15	1875
12/3 SJEOW-A .475 O.D. BLUE UL LISTED 3-WIRE CORD			
SS3 102	10'	15	1875
SS3 152	15'	15	1875
SS3 252	25'	15	1875
SS3 502	50'	15	1875
SS3 1002	100'	15	1875
14/3 SJEOW-A .390 O.D. BLUE UL LISTED 3-WIRE CORD			
SS3 104	10'	15	1875
SS3 154	15'	15	1875
SS3 254	25'	15	1875
SS3 504	50'	15	1875
SS3 1004	100'	13	1625
16/3 SJEOW-A .365 O.D. BLUE UL LISTED 3-WIRE CORD			
SS3 106	10'	13	1625
SS3 156	15'	13	1625
SS3 256	25'	13	1625
SS3 506	50'	13	1625
SS3 1006	100'	10	1250

male caps

P 333

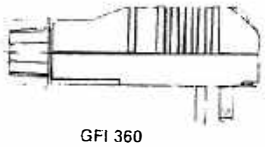
Cat. No.	Description
P 300	Rubber handle grip cap, 2 wire
P 311	Heavy duty rubber cap w/cord clamp, 2 wire
P 333	3-wire cap, dead front, armored, yellow
P 340	Vinyl 3-wire cap yellow

female connectors

C 420

C 405	Jumbo rubber connector, 2 wire
C 411	Heavy duty rubber connector, 2 wire w/cord clamp
C 420	3-wire cord connector, armored, yellow
C 440	Vinyl 3-wire connector, yellow

Ground Fault Interrupter male cord cap

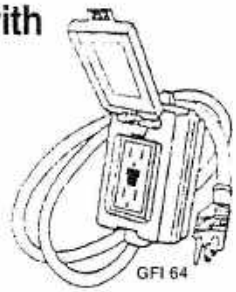


GFI 360

Catalog Number
**GFI 360

**The GFI male cap can be assembled to any cord.
please contact the office if you have a specific cord you need

Ground Fault Interrupter with duplex receptacle



GFI 64

14/3 SJTW-A YELLOW
GFI 64

Ground Fault Interrupter cord with circuit breaker

GFT-2T-CB

Catalog Number
GFT-2T-CB

Unit features a male ground fault interrupter and a triple outlet female with a built in circuit breaker for double protection

Fastener Systems, Inc.
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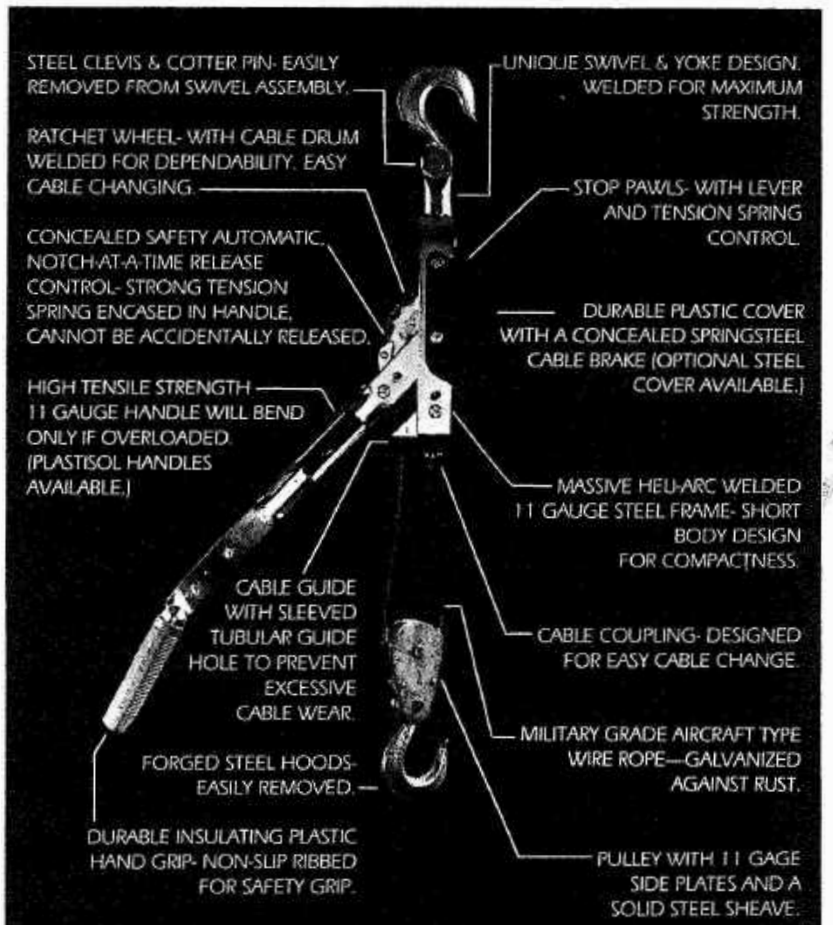
Mini-Mule Manufactured By DEUER PREMIUM CABLE HOIST/PULLERS

MADE IN THE USA

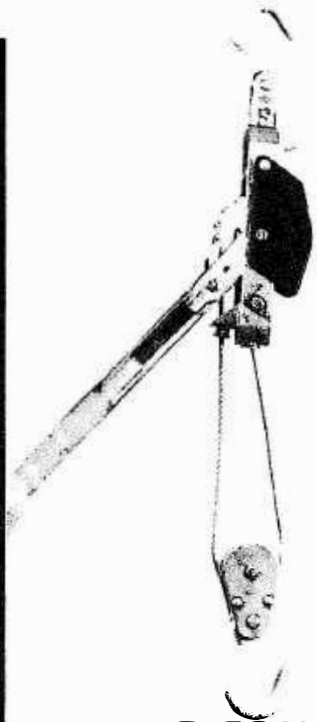
QUALITY BUILT IN THE USA



MULTI-PURPOSE PORTABLE POWER TO:

▪Lift ▪ Pull ▪ Stretch ▪ Handle ▪ Tighten ▪ Erect ▪ Position ▪ Install...

Revolutionary design and engineering make this the MOST RUGGED, RELIABLE AND DURABLE PULLER ON THE MARKET TODAY. Compare it to the competition and you will agree. Rigid quality control and component testing are regularly exercised to assure product integrity.



2 TON HEAVY-DUTY, DOUBLE DRIVE

Revolutionary design and engineering make this the most rugged, reliable and safe puller for today's industrial requirements. Ratchet wheels on both sides for a balanced drive. Double locking and driving pawls independently sprung to insure alignment with ratchet wheel teeth. Tubular steel cable guide guards against excessive wear or fraying. Two legs transfer load to cable drum, minimize distortion and binding locking and lifting pressure applied uniformly to both sides of cable drum.

MODEL	CAPACITY	PULL
MM 16DD	1 TON	6 FT.
MM 19DD	1 TON	9 FT.
MM 112DD	1 TON	12 FT.
MM 212DD	2 TON	6 FT.
MM 1212CDD	1-2 TON	6-12 FT.

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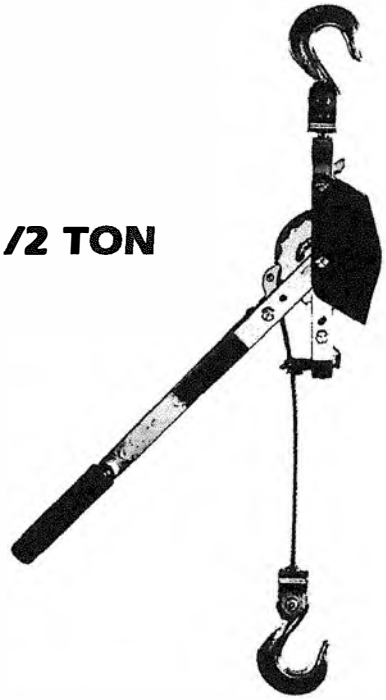
HOIST/PULLERS TOOLS AND ACCESSORIES

1/2 TON



Now, an industrial grade tool designed and priced for personal use. Simplified release control of drive pawls for raising or lowering. Unique design allows Clevis a full 360 degree rotation. Brake cable spring fabricated for easy in-field maintenance.

MODEL	PULL
MM 5014	14 FT.
MM 5028	28 FT.

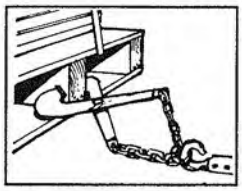
BAND BREAKER

MODEL MP 503

The simplest, most versatile and dependable method. Just slip band into slot and rotate handle parallel to band. Will break banding up to 2" wide and .040 thick.

"JAWS"

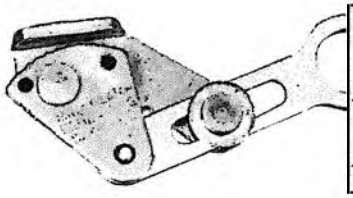
MODEL MP 508

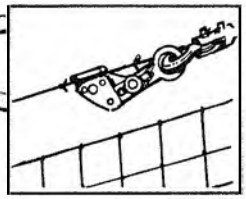


The harder you pull, the tighter JAWS grip. Can be used as a pallet and skid puller or sheet metal gripper. Weighing 5 lbs., it will pull 2000 lbs., fits 2" spaced pallets. Opens to 4".

FENCING ACCESSORIES

MINI WIRE CLAMP MODEL MP 189

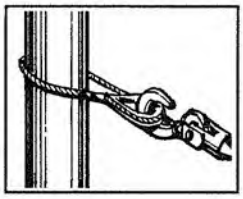




Designed for use with a Mini-Mule puller, it is an essential accessory for barbed, smooth or insulated wire from 1/16" to 1/4" diameter. The Mini Wire Clamp weighs only 15 oz., yet has a capacity of 1300 lbs. Provides a sure, positive grip.

POST SLING

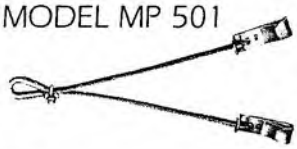
MODEL MP 502

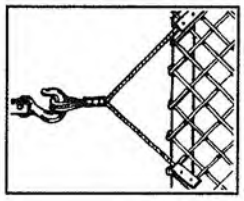


An anchor for fence stretcher. Eliminates frayed and kinked cable when permanently fastened to the cable hook. Hangs out of the way when not in use and never gets lost or mislaid.

PULL CABLE

MODEL MP 501

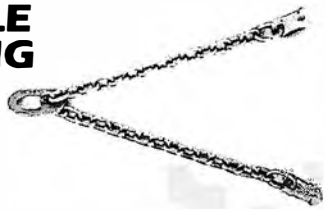




Required for the proper erection of chain link or other fencing with tension bars. A balanced tension may be applied throughout the installation, making the job smoother, neater and easier.

ADJUSTABLE CHAIN SLING

MODEL MP 506



For lifting motors from cars, trucks, tractors and boats. Can be locked with long and short legs to hold a motor at proper angle for installation or removal. Capacity 2350 lbs. A bolt through the anchor lugs converts it to an excellent anchor loop for vertical lifting, horizontal pulling, stretching or positioning.

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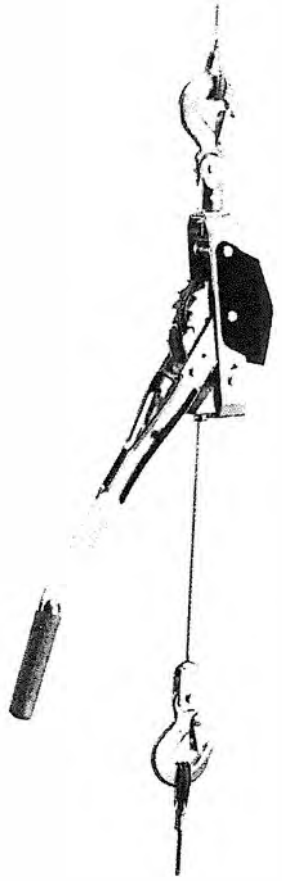
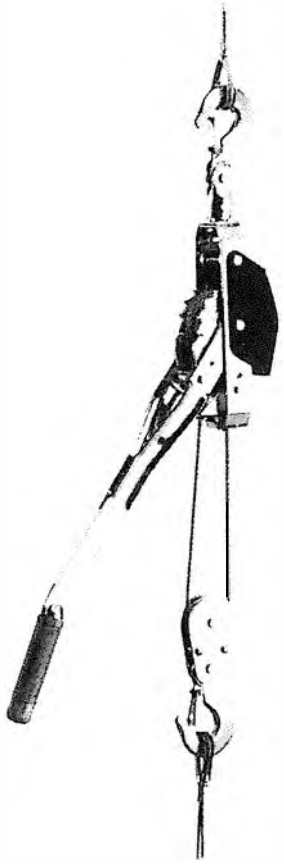
Mini-Mule
Manufactured By DEUER

DOUBLE DRIVE UNITS



MM-112 DD
1 Ton 12 ft. Pull/Lift



MM-212 DD
2 Ton 6 ft. Pull/Lift

Our most popular Double Drive Mini-Mules.
For all your extra-tough jobs!

Note: Units shown with optional safety hooks.

Same day color match - In house painting

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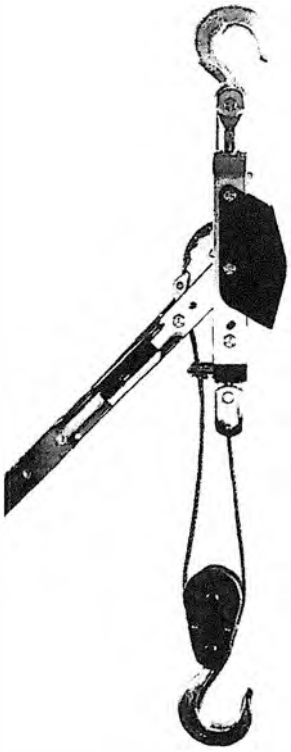
Mini-Mule Manufactured By DEUER PREMIUM CABLE HOIST/PULLERS

MADE IN THE USA

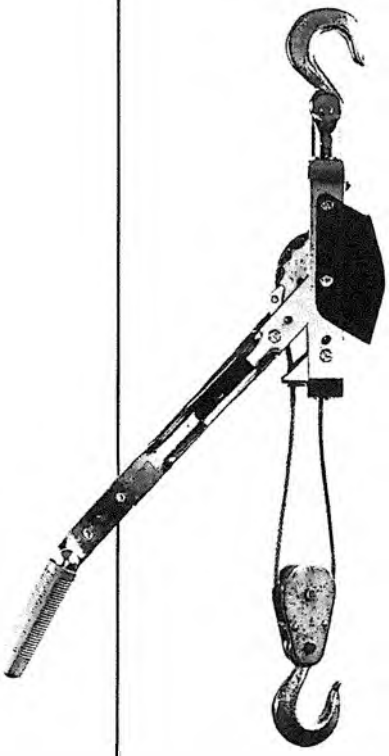
OPTIONAL STEEL COVERS AVAILABLE



1-2 TON CONVERTIBLE

The two-in-one model. Easily converts to 1 or 2 ton capacity. Weighs only 7 oz. more than standard 2 ton model. All other specifications are the same as standard 2 ton unit. Change over is easily accomplished. Single Drive and Double Drive.

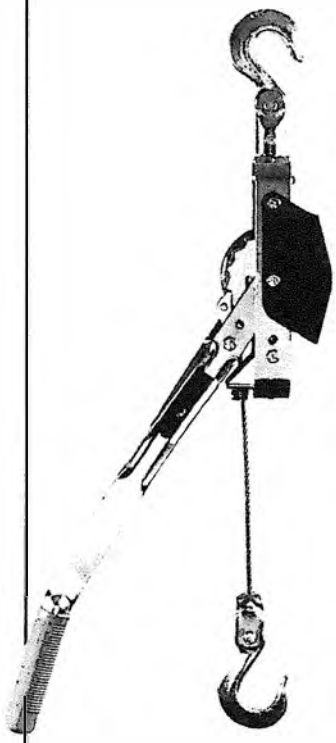
MODEL	CAPACITY	PULL
MM 1212C	1-2 TON	6-12 FT.
MM 1212CDD	1-2 TON	6-12 FT.



2 TON SINGLE DRIVE

This heavy-duty two ton model weighs only 8 1/2 lbs. complete with cable and hooks. Compact, ruggedly constructed frame is 8 1/4" long x 2 1/4" wide. Minimum distance between hooks is 20". Has 36:1 power ratio. Will easily handle 4000 lbs.

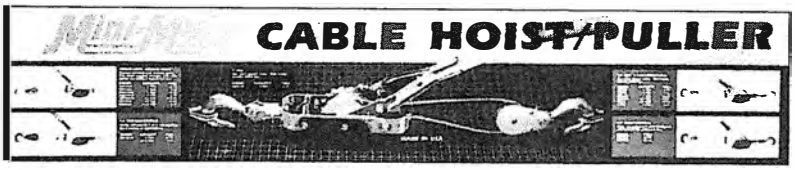
MODEL	CAPACITY	PULL
MM 212R	2 TON	6 FT.



3/4 TON / 1 TON

The popular, wide-utility models - 6 Ft. pull weighs only 7 1/2 lbs. - 12 Ft. pull weighs 8 lbs. Standard compact, rugged frame is 8 1/4" long x 2 1/4" wide. Minimum distance between hooks is 18". Has 18:1 power ratio; will handle 2000 lbs. easily.

MODEL	CAPACITY	PULL
MM 16R	1 TON	6 FT.
MM 19R	1 TON	9 FT.
MM 112R*	1 TON	12 FT.
MM 7518	3/4 TON	18 FT.



FULL COLOR PACKAGING

* Deuer's most popular unit.

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DEUER BLOCKS

5 Styles- 5 sizes- all with removable sheave

All Deuer Blocks have a "hairpin" type removable cotter pin holding the clevis pin. This allows the sheave to be removed for rigging into cable at any point, in the same manner as a snatch block.

Deuer Blocks are all steel and entirely bright zinc plated for maximum corrosion resistance.

All Deuer Blocks have the Standard Working Load (capacity) stamped on each block.

	MODEL	SHEAVE DIA.	MAX. CABLE SIZE	CAPACITY	WEIGHT EACH (ounces)
HOOK (Swivel)	DB15H	1½	3/16	420#	9
	DB20H	2	3/16	480#	12
	DB25H	2½	¼	550#	14
	DB30H	3	¼	650#	18
	DB35H	3½	5/16	1250#	25½

SCISSOR HOOK (Swivel)	D815HS	1½	3/16	420#	9
	DB20HS	2	3/16	480#	12
	DB25HS	2½	¼	550#	14
	DB30HS	3	¼	650#	18
	DB35HS	3½	5/16	1250#	25½

EYE (Swivel)	DB15E	1½	3/16	460#	8
	DB20E	2	3/16	480#	11
	DB25E	2½	¼	550#	11
	DB30E	3	¼	650#	16
	DB35E	3½	5/16	1250#	23

GABLE (Fixed)	DB15G	1½	3/16	420#	7
	DB20G	2	3/16	480#	10
	DB25G	2½	¼	550#	10
	DB30G	3	¼	650#	14½
	DB35G	3½	5/16	1250#	21½

FLANGE (Fixed)	DB15F	1½	3/16	420#	5
	DB20F	2	3/16	480#	8
	DB25F	2½	¼	550#	7½
	DB30F	3	¼	650#	12
	DB35F	3½	5/16	1250#	18½

Caution: do not mount DB-F "flange" units with wood screws. Use #10 machine screws and nuts.

SHEAVES

MODEL	DIA. & BORE	MAX. CABLE SIZE	CAPACITY	WEIGHT EACH (ounces)
DB15S	1½ x 5/16	3/16	420#	3
DB20S	2 x 5/16	3/16	480#	5½
DB25S	2½ x 5/16	¼	550#	3½
DB30S	3 x 5/16	¼	650#	5
DB35S	3½ x 5/16	5/16	1250#	6½

We put the *fast* in fasteners

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

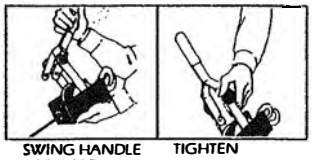
Mini-Mule
Manufactured By DEUER

Pack-Mule™ MANUFACTURED BY DEUER

MULTI-PURPOSE PORTABLE HOIST/PULLER PACKAGED IN A CONVENIENT CASE!

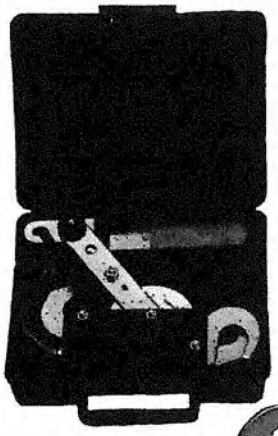
From the Manufacturer of

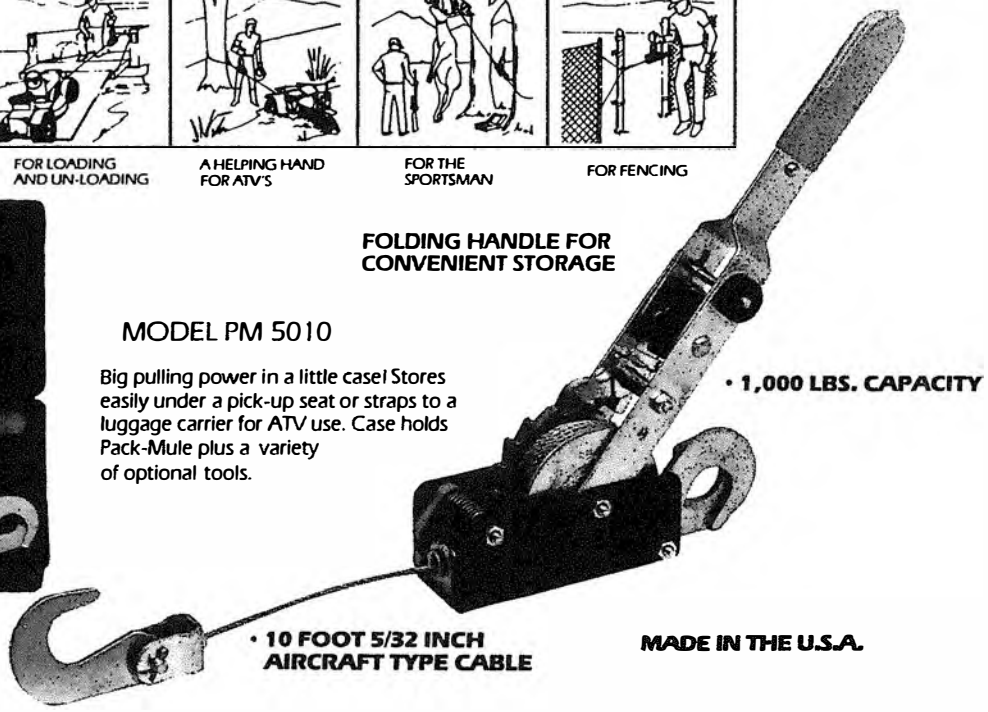
Mini-Mule Manufactured By DEUER



SWING HANDLE FORWARD — TIGHTEN LOCKING NUT

FOR EMERGENCIES — FOR LOADING AND UN-LOADING — A HELPING HAND FOR ATV'S — FOR THE SPORTSMAN — FOR FENCING





FOLDING HANDLE FOR CONVENIENT STORAGE

MODEL PM 5010

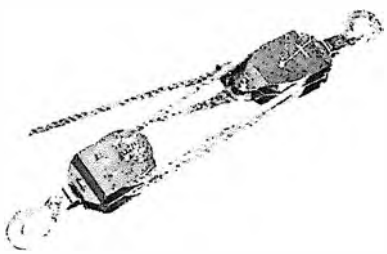
Big pulling power in a little case! Stores easily under a pick-up seat or straps to a luggage carrier for ATV use. Case holds Pack-Mule plus a variety of optional tools.

• 1,000 LBS. CAPACITY

• 10 FOOT 5/32 INCH AIRCRAFT TYPE CABLE

MADE IN THE U.S.A.

KIT INCLUDES:
PACK-MULE
HEAVY-DUTY CASE



ROPE HOIST MODEL RH 600

Full swiveling safety hooks. 3" diameter sheave pulleys with steel roller bearings. Will operate with any type rope from 3/8" to 1/2" Dia. 600 lbs. safe working load with 4:1 safety factor. 4:1 ratio with positive locking brake to hold load in position. Zinc plated for corrosion resistance.

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MILLER®

Harnesses

VERSALITE 650 SERIES HARNESSES

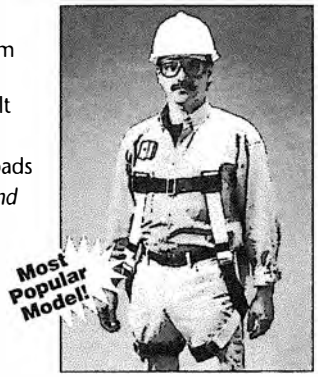
- Lightweight nylon webbing
- Chest strap with adjustment pads
- Pull-up shoulder adjustment
- Forged-steel sliding back D-ring
- Replaceable chest-mounted lanyard clip on adjustment pad
- Back strap to keep shoulder straps in position and prevent the back D-ring from sliding down too far
- Four (4) loops to accommodate body belt
- One "universal" size fits most
- Options: Coolmax™ back and shoulder pads
- *Polyester webbing available for chemical and acidic environments*

Model #650
- Standard VersaLite harness

Model #650-4
- Includes forged-steel side D-rings; tongue buckle leg straps

Model #650-7
- Constructed of heavy-duty nylon webbing; forged steel side D-rings

Model #650-58
- Constructed of heavy-duty nylon webbing, tongue buckle leg straps and forged-steel side D-rings



Model #650

MILLER® 750/751 HARNESSES

- Very economical harness
- Conventional nylon webbing
- Lightweight
- Easier to put on ... greater comfort
- Forged-steel sliding back D-ring
- Chest and back straps keep the shoulder straps in position, preventing the D-ring from sliding down too far
- Available in two (2) sizes – S/M and L/XL
- *Polyester webbing available for chemical and acidic environments*

Model #750
- Step-in harness with looped leg straps, friction buckle shoulder straps and pass-through chest buckle

Model #751
- Quick-connect harness features mating buckles in the leg straps and a pass-through chest buckle

DURALITE LIGHTWEIGHT HARNESSES

- Lightweight nylon webbing
- Lightweight and durable
- Forged-steel sliding back D-ring
- Mating buckles on legs and shoulder straps
- One "universal" size fits most; also available in M, L and XL
- *Polyester webbing available for chemical and acidic environments*

Model #552
- Includes patent pending front D-ring and side D-rings for positioning, more comfortable and easier to adjust than conventional front D-ring harnesses

Model #850
- Standard DuraLite harness

Model #851
- Includes side D-rings for positioning

SUB-PELVIC HARNESSES

- Conventional nylon webbing
- Superior support in the buttocks while reducing pressure from the shoulders and legs
- Provides maximum force distribution and comfort
- Tongue buckle waist belt, friction buckles in chest, shoulder and leg straps
- Ideal for being suspended, raised or lowered, such as in tanks, manholes and pipe
- Available in sizes S, M, L, XL
- *Polyester webbing available for chemical and acidic environments*

Model #8095
- Standard Sub-Pelvic harness

Model #8095-48
- Includes SofStop™ shock absorber/D-ring combination in the middle of the back for attachment to lanyards or retractable lifelines

Model #8095-3
- Includes shoulder D-rings

Model #8095-4
- Includes tongue buckle leg straps

Model #8095-7
- Includes side D-rings for positioning

ADJUSTABLE FIT HARNESSES

- Conventional nylon webbing
- Adjustable fit for extended wear
- Friction buckles on leg, chest, shoulder and waist straps allow full adjustment possibilities
- Available in sizes S, M, L, XL
- *Polyester webbing available for chemical and acidic environments*

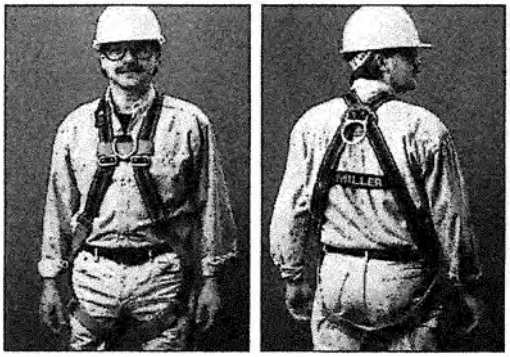
Model #8428
- Standard Adjustable-Fit harness

Model #8428-4
- Includes tongue buckle leg straps

Over 3 million painted parts in stock ready for same day shipping

MILLER®

Duraflex Harnesses



Model #E552
- New stretchable elastic webbing
- New patent pending front D-ring
  - More comfortable than conventional front D-ring harnesses
  - Easier to adjust than conventional front D-ring harnesses
- Mating buckles throughout
- Side D-rings
- Sub-pelvic strap
- One "universal" size fits most

Model #E650
- New stretchable elastic webbing
- Friction buckle shoulder straps
- Mating buckle leg and chest straps
- Pull-up design shoulder straps
- Belt loops to accommodate tool belts, back pads and accessories
- Lanyard clip
- Sub-pelvic strap
- One "universal" size fits most
- For front D-ring option, order E650FD

Model #E650-4
- New stretchable elastic webbing in shoulder and body straps
- Friction buckle shoulder straps
- Conventional nylon webbing in leg straps with tongue buckles
- Pull-up design shoulder adjustment
- Sub-pelvic strap
- Belt loops to accommodate tool belts, back pads and accessories
- Lanyard clip
- One "universal" size fits most
- For front D-ring option, order E650FD4

Model #E650-7
- Same design as Model #E650, except with side D-rings
- One "universal" size fits most
- For front D-ring option, order E650FD7

Model #E650-58
- Same design as Model #E650-4, except with side D-rings
- One "universal" size fits most
- For front D-ring option, order E650FD58

Model #E850
- New stretchable elastic webbing in leg, shoulder and body straps
- Friction buckle shoulder straps
- Mating buckle leg straps
- Sub-pelvic strap
- One "universal" size fits most

Model #E851
- Same design as Model #E850, except with side D-rings
- One "universal" size fits most

Model #E8095
- New stretchable elastic webbing in leg and shoulder straps
- Friction buckle leg and shoulder straps
- Conventional nylon webbing in waist belt with tongue buckles
- Built-in waist belt
- Sub-pelvic strap
- Available in S, M, L, XL

Model #E8759
- New stretchable elastic webbing in shoulder and body straps
- Friction buckle shoulder straps
- Conventional nylon webbing in leg straps with tongue buckles
- Sub-pelvic strap
- One "universal" size fits most

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MILLER®

Harnesses & Body Belts

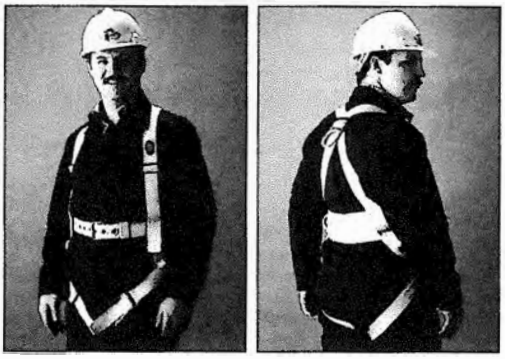
CONSTRUCTION HARNESSES

- Conventional nylon webbing
- Adjustable fit with friction buckles on legs, shoulders and chest straps
- Removable tongue buckle waist belt provides additional stability for carrying tools, etc.
- Available in sizes S, M, L, XL
- Ideal for pipefitters, steel erectors and iron workers
- *Polyester webbing available for chemical and acidic environments*

Model #8428-11
- Standard Construction harness with a 4-inch back pad

Model #8428-14
- Includes tongue buckles throughout, side D-rings for positioning and a 4-inch back pad

Model #8428-15
- Includes tongue buckle leg straps and a 4-inch back pad



Model #8428-11

Model #8428-16
- Includes a 6-inch back pad and is designed for use with an approved industrial body belt, such as 6414N (belt not included)

HEAVY-DUTY HARNESSES

- Heavy-duty nylon webbing
- Includes shoulder D-rings and tongue buckle waist belt
- Includes friction buckles on chest, leg and shoulder straps
- Available in sizes S, M, L, XL
- For use in rugged environments including pipeline construction, oil derrick or confined space activities
- *Polyester webbing available for chemical and acidic environments*

Model #8714
- Standard Heavy-duty harness

Model #8714-8
- Includes tongue buckles throughout

Model #8714-9
- Includes tongue buckles throughout, ***no shoulder D-rings***

UNIVERSAL FIT HARNESSES

- Conventional nylon webbing
- Permits unresricted movement
- One "universal" size fits most
- Friction buckles on chest and shoulder straps
- Tongue buckle leg straps
- Excellent for workers performing installations, renovations and maintenance activities
- *Polyester webbing available for chemical and acidic environments*

Model #8759
- Standard Universal Fit harness

INDUSTRIAL BODY BELTS

All body belts should be utilized for positioning work only, not for fall protection. Miller® body belts are designed with heavy-duty nylon webbing and tongue buckle attachments. Polyester webbing is available for chemical and acidic environments.

Beginning January 1, 1998, OSHA will require full-body harnesses for fall protection in the construction industry.

Miller® brand body belts meet or exceed all applicable OSHA, ANSI and CSA requirements.

Model #2NA
- General purpose nylon belt with tongue buckle includes side D-rings and 3-inch back pad

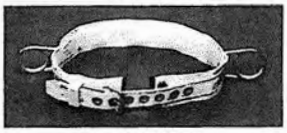
Model #3NA
- Nylon belt with tongue buckle includes single D-ring and 3-inch back pad

Model #124N
- Nylon belt with tongue buckle includes side D-rings

Model #9140
- Nylon belt with one (1) D-ring and an integral SofStop™ shock absorber

Model #9141
- Nylon belt with two (2) D-rings and an integral SofStop™ shock absorber

BELT SIZES:	
Small	(waist 32-40)
Medium	(waist 36-44)
Large	(waist 40-48)
X-Large	(waist 44-52)

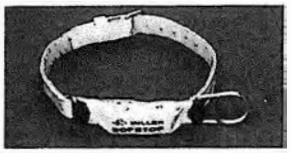


Model #2NA

Most Popular Model!

Model #3NA

Model #124N



Model #9140

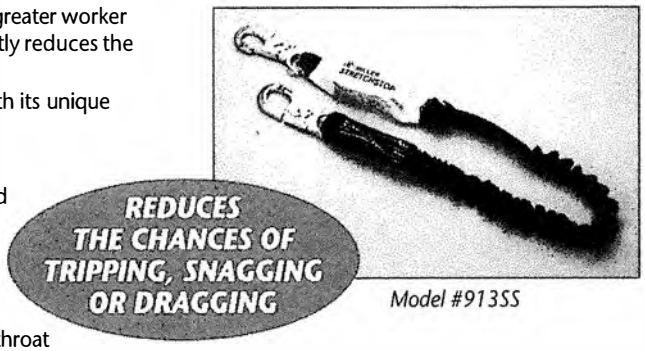
FSI specializes in solving problems

MILLER®

Lanyards

STRETCHSTOP™ LANYARD WITH SOFSTOP™ SHOCK ABSORBER

- Stretches from 4 to 6 feet, offering greater worker maneuverability – when contracted to 4 feet, it greatly reduces the chances of tripping, snagging or dragging
- Includes the field-proven SofStop shock absorber with its unique back-up safety strap.



Model #913SS

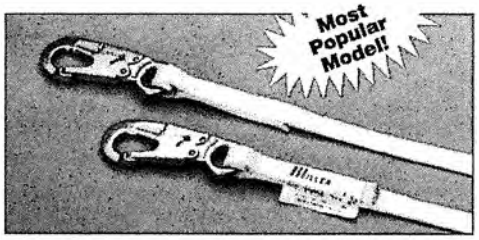
Model #913SS
- Stretchable StretchStop lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings and an integral SofStop shock absorber

Model #8798SS
- Two-legged, stretchable StretchStop lanyard with three (3) plated locking snap hooks with 3/4 inch throat openings and an integral SofStop shock absorber

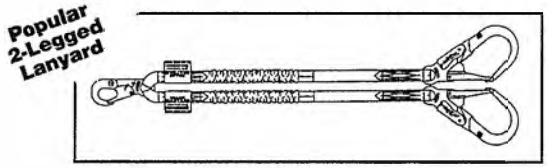
MANYARD™ SHOCK-ABSORBING LANYARDS

The Manyard lanyard is a true shock absorber/lanyard combination with a special shock-absorbing inner core material surrounded by a super-strong, heavy-duty outer jacket that doubles as a back-up web lanyard. Manyard lanyards contain a unique warning flag to indicate the unit has been involved in a fall and should be removed from service. Manyard lanyards are available in lengths from 4 to 10 feet.

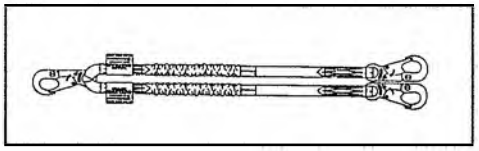
- **Standard lanyards are six (6) feet in length.**
- **Maximum working load of 310 lbs.**



Model #216WLS



Model #231WRS


Model #232WLS

Model #215WLS
- Six-foot Manyard shock-absorbing lanyard with one (1) 1-3/4 inch looped end and one (1) plated locking snap hook with 3/4 inch throat opening

Model #216WLS
- Six-foot Manyard shock-absorbing lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings

Model #219WRS
- Six-foot lanyard with one (1) plated locking snap hook with 3/4 inch throat opening and one (1) plated locking snap hook with 2-1/2 inch throat opening

Model #231WRS
- Two-legged, six-foot Manyard shock-absorbing lanyard with one (1) plated locking snap hook with a 3/4 inch throat opening and two (2) plated locking snap hooks with 2-1/2 inch throat openings

Model #232WLS
- Two-legged, six-foot Manyard shock-absorbing lanyard with three (3) plated locking snap hooks with 3/4 inch throat openings

Manyard shock-absorbing lanyards are also available as part of Man-Pac belt units which include the following components:
- Tongue buckle body belt
- Six-foot Manyard lanyard
- Storage pouch

Model #7000LS
- Manyard shock-absorbing lanyard loops around a 1-3/4 inch body belt and includes one (1) plated locking snap hook with 3/4 inch throat opening. Includes storage bag

Model #7001LS
- Manyard shock-absorbing lanyard permanently attached to the back D-ring of a 1-3/4 inch body belt. Includes storage bag

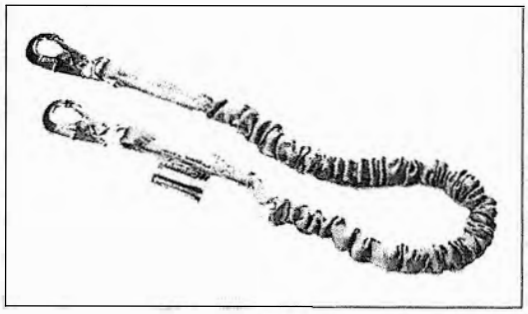
Model #7002LS
- Manyard shock-absorbing lanyard permanently sewn to body belt containing a 3 inch comfort pad. Includes storage bag

MILLER®

Lanyards

MANYARD II SHOCK-ABSORBING LANYARDS

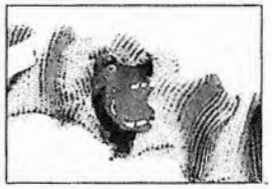
- Stretches from 4 to 6 feet, offering greater worker maneuverability – when contracted to 4 feet, it greatly reduces the chances of tripping, snagging or dragging
- Special shock-absorbing inner core material surrounded by a super-strong, heavy-duty outer jacket that doubles as a back-up web lanyard
- A unique warning flag indicates the unit has been involved in a fall and should be removed from service.



Model #216M

Model #216M
- Stretchable Manyard II shock-absorbing lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings

Model #219M
- Stretchable Manyard II shock-absorbing lanyard with one (1) plated locking snap hook with a 3/4 inch throat opening and one (1) plated locking snap hook with a 2-1/2 inch throat opening

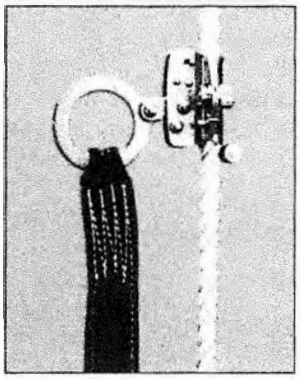


Red Core Indicator shows unit unfit for service

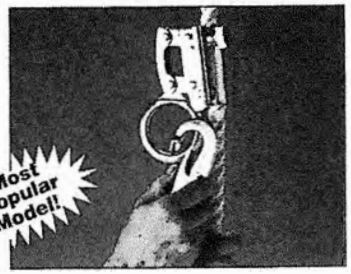
ROPE GRABS/VERTICAL LIFELINES

Rope grabs are to be used with independent lifelines. A 3/4 inch or 5/8 inch synthetic lifeline with a minimum tensile strength of 5,000 pounds must be secured to an anchorage point independent of the worker's platform. A rope grab will move up or down the vertical lifeline easily, yet it will lock instantly when activated by a fall.

Miller® vertical lifeline's standard rope length is 100 feet. Other lengths available upon request. Nylon or polyester rope is recommended for fall protection.



Model #8174MLS



Model #8174X

ROPE GRABS

Miller•brand 8714 rope grabs meet OSHA and ANSI requirements.

Model #98174LS with SofStop™
- Constructed of plated steel, the rope grab is designed with an attached SofStop shock absorber and plated D-ring. Accommodates 3/4 inch or 5/8 inch rope tunnel.

Model #8174WLS with Web Lanyard
- Constructed of plated steel, the rope grab is designed with an attached 2 foot nylon webbing lanyard and a plated locking snap hook with a 3/4 inch throat opening. Accommodates 3/4 inch or 5/8 inch rope tunnel.

Model #8174RLS with Web Lanyard
- Constructed of plated steel, the rope grab is designed with an attached 2 foot rope lanyard and a plated locking snap hook with a 3/4 inch throat opening. Accommodates 3/4 inch or 5/8 inch rope tunnel.

Model #8174MLS with Manyard
- Constructed of plated steel, the rope grab features an attached 4-foot Manyard shock-absorbing lanyard and a plated locking snap hook with a 3/4 inch throat opening. Accommodates 3/4 inch or 5/8 inch rope tunnel.

Model #8174X
- Constructed of plated steel, the rope grab is designed with a built-in D-ring. Accommodates 3/4 inch or 5/8 inch rope tunnel.

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MILLER®

Rope Grabs & Lanyards

ROPE GRABS/VERTICAL LIFELINES

TRAILING ROPE GRABS

Miller® brand trailing rope grabs meet or exceed applicable OSHA, ANSI and CSA requirements.

Model #8175
- Standard trailing rope grab constructed of stainless steel with a 5/8 inch rope tunnel

Model #8175RLS
- Trailing rope grab constructed of stainless steel (5/8 inch rope tunnel) with an attached 3 foot rope lanyard and one (1) plated locking snap hook with a 3/4 inch throat opening

Model #8175WLS
- Trailing rope grab constructed of stainless steel (5/8 inch rope tunnel) with an attached 3 foot nylon webbing lanyard and one (1) plated locking snap hook with a 3/4 inch throat opening

Model #8175SLS
- Trailing rope grab constructed of stainless steel (5/8 inch rope tunnel) with an attached 3 foot nylon webbing lanyard with an integral SofStop shock absorber and one (1) plated locking snap hook with a 3/4 inch throat opening

Model #8175

Model #8175RLS

Model #8175WLS

Model #8175SLS

SELF-RETRACTING LIFELINES/LANYARDS

MIGHTYLITE LIFELINES

Most Popular Retractable in the Industry

MightyLite 20-foot Galvanized Cable Unit
Model #RL20G

Model #RL20P
- 1 inch polyester webbing - 20 foot length. Weight: 8 lbs.

Model #RL20G
- 3/16 inch galvanized cable - 20 foot length. Weight: 9 lbs.

Model #RL20SS
- 3/16 inch stainless steel cable - 20 foot length. Weight: 9 lbs.

VERTICAL LIFELINES *Specify length when ordering.*

Model #198RLS-3
- Filament nylon 3/4 inch diameter

Model #198RLS-9
- Filament nylon 5/8 inch diameter

Model #198RLS-5
- Polyester 5/8 inch diameter

SERIES 55 RETRACTABLE LANYARD

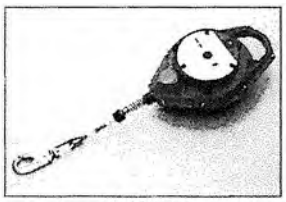
Heavy-duty retractable with galvanized steel cable that is used widely in construction and general industry for maximum fall protection. Designed with a centrifugal braking mechanism that limits free-fall to less than 24 inches. Maximum work load is 310 pounds. Complete with tagline. Stainless steel cable and polyester-aramid blend rope are available upon request.

Model #M55-25G
- 25-foot cable length. Weight: 31 lbs.

Model #M55-50G
- 50-foot cable length. Weight: 33 lbs.

Model #55-75G
- 75-foot cable length. Weight: 51 lbs.

Model #55-100G
- 100-foot cable length. Weight: 53 lbs.

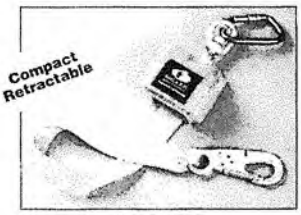

Model #M55

RETRACTABLE WEBBING LANYARD

The Miller® Retractable Webbing Lanyard is designed with 10 feet of polyester webbing and is the perfect unit for warehouse activities, cherry picker or aerial basket applications. Designed with an inertia-braking mechanism that locks instantly. Complete with a top swivel ring and a plated locking snap hook with a 3/4 inch throat opening.

Model #8327
- Lightweight retractable webbing lanyard with 10 foot payout, complete with carabiner.

Model #8327A
- Lightweight retractable webbing lanyard with 10 foot payout, without carabiner.



Model #8327

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

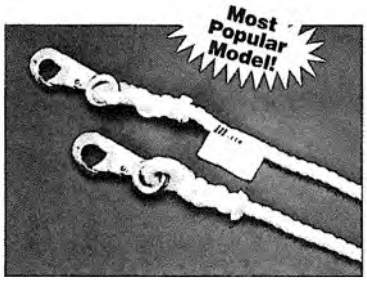
MILLER®

Lanyards

ROPE LANYARDS

Rope lanyards are available in spun nylon, filament nylon or polyester to fit end-user needs.

- **Standard lanyards are six (6) feet in length.**
- **Available in any length, please specify.**



Model #201RLS

ROPE OPTIONS:
9/16" spun nylon
5/8" spun nylon
1/2" polyester
5/8" polyester
1/2" filament nylon
5/8" filament nylon
3/4" filament nylon

Model #198RLS - *(indicate length)*
- Rope lanyard with one (1) plated locking snap hook with 3/4 inch throat opening, loop on opposite end

Model #201RLS - *(indicate length)*
- Rope lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings

Model #202RRS - *(indicate length)*
- Rope lanyard with one (1) plated locking snap hook with 3/4 inch throat opening, one (1) plated locking snap hook with 2-1/2 inch throat opening

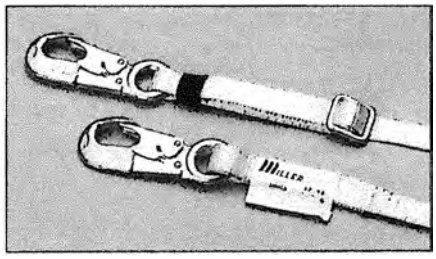
Model #203RLS - *(indicate length)*
- Adjustable rope lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings

Model #204RLS - *(indicate length)*
- Rope lanyard with one (1) plated locking snap hook with 3/4 inch throat opening, thimble on opposite end. Easily used with a carabiner for attachment to an anchor point.

WEBBING LANYARDS

Nylon or polyester webbing lanyards are economical, abrasion resistant, and easy to clean and store.

- **Standard lanyards are six (6) feet in length.**
- **Available in any length, please specify.**



Model #210WLS

Model #210WLS
- Adjustable nylon or polyester webbing lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings

Model #212WLS - *(indicate length)*
- Nylon or polyester webbing lanyard with one (1) plated locking snap hook with 3/4 inch throat opening, loop on opposite end

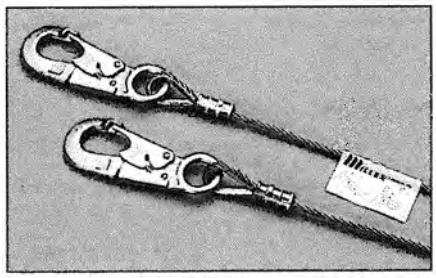
Most Popular Model!

Model #213WLS - *(indicate length)*
- Nylon or polyester webbing lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings

STEEL LANYARDS

Used for positioning ***only***, never for fall protection unless incorporated with shock absorber. Steel cable lanyards are super-strong, heat resistant and highly abrasion resistant. A vinyl covering available.

- **Standard lanyards are six (6) feet in length.**
- **Available in any length, please specify.**



Model #207LS

Model #207LS
- Steel cable lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings

Model #207NLS
- Steel cable lanyard with vinyl covering and two (2) plated locking snap hooks with 3/4 inch throat openings

Miller® brand lanyards meet or exceed all applicable OSHA, ANSI and CSA requirements, including ANSI Z359.1.

Same day color match - In house painting

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MILLER®

Lanyards

LANYARDS WITH SOFSTOP™ SHOCK ABSORBER

Miller® SofStop™ Shock Absorbers are versatile shock-absorbing packs available as integral components of various Miller® lanyards. All standard lanyards are six (6) feet in length, unless specified by buyer.

Model #928LS SofStop Shock Absorber
- A SofStop shock absorber with one (1) D-ring and one (1) plated locking snap hook with a 3/4 inch throat opening provides easy attachment to a harness and can be used with rope, webbing or steel cable lanyards

Model #907LS Steel Cable Lanyard
- Steel cable, six-foot lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings and an integral SofStop shock absorber. Steel cable diameter - 1/4 inch

Model #901RLS Rope Lanyard
- Six-foot nylon rope lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings and an integral SofStop shock absorber. Rope diameter - refer to Rope Options on page 11

Model #903RLS Adjustable Rope Lanyard
- Adjustable nylon rope lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings and an integral SofStop shock absorber. Rope diameter - refer to Rope Options on page 11

Model #910WLS Adjustable Web Lanyard
- Adjustable nylon webbing lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings and an integral SofStop shock absorber

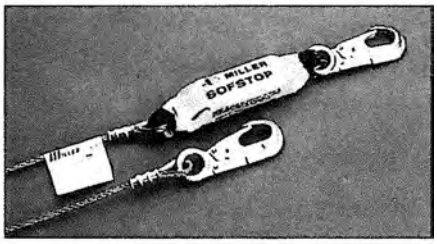
Most Popular Model!

Model #913WLS Web Lanyard
- Six-foot nylon webbing lanyard with two (2) plated locking snap hooks with 3/4 inch throat openings and an integral SofStop shock absorber

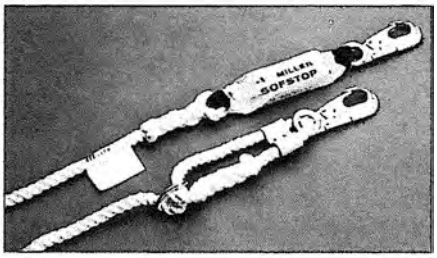
Model #8798-6 Two-Legged Web Lanyard
- Two-legged, six-foot nylon webbing lanyard with three (3) plated locking snap hooks with 3/4 inch throat openings and an integral SofStop shock absorber

Model #8798-6R Two-Legged Web Lanyard
- Two-legged, six-foot nylon webbing lanyard with one (1) plated locking snap hook with 3/4 inch throat opening and two (2) plated locking snap hooks with 2-1/2 inch throat openings

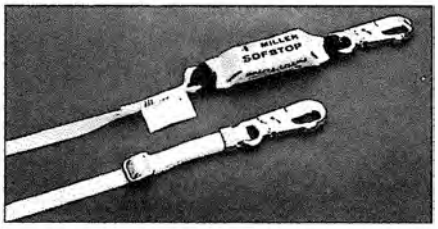
Model #928LS



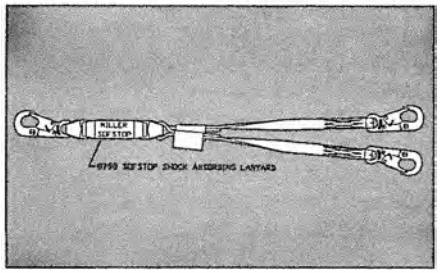
Model #907LS



Model #903RLS



Model #910WLS



Model #8798-6

SEE OUR SECTION ON PROTECTIVE EYE, HEAD AND FIRST AID EQUIPMENT

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MILLER®

Anchorage Connectors

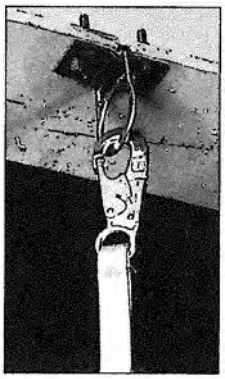
Miller® brand anchorage connectors meet or exceed all applicable OSHA, ANSI or CSA requirements.

Miller® Anchorage Connectors are used for securing a connecting device to an anchorage point. It is important to select a proper anchorage point for ultimate safety:

The anchorage point should
- be directly above the worker
- be easily accessible
- support 5,000 pounds per worker
- be located a safe distance above any lower obstacles

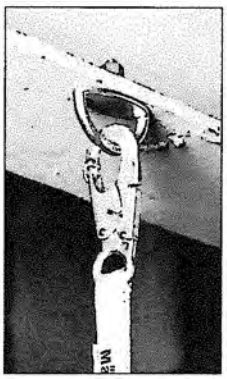
410 Mounted D-Ring

The bolt-on D-ring is designed as a fall protection anchorage point that can be mounted in any position. The steel D-ring and plate are attached to an approved structure with 3/8 inch diameter bolts, lock washers, nuts and a drilling template. Requires four (4) drilled holes.



415 D-Bolt Anchor

Designed specifically to prevent rollout, this new, easy-to-install anchorage connector can be mounted in a variety of positions and is ideal for use with the Manyard shock-absorbing lanyard or the Miller retractable lifelines. 1/2 inch diameter bolt.

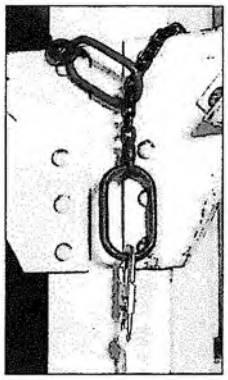


420 Push-Thru Eye Bolt

This anchorage connector offers inherently simple one-hand installation with no tools and the flexibility to be used in a wide range of applications. A Miller SofStop™ shock absorber is included and completes the anchorage system. Fits 3/4 inch diameter hole.

440 Cross-Arm Chain

The 6 foot cross-arm chain readily wraps around I-beams and other structures to form a temporary anchorage connector. It is ideal for use in environments where welding splatter may occur, or where corners, sharp edges or heat are encountered.

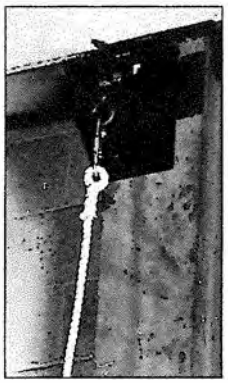


450/455 Beam Clamp

The beam clamp is a steel anchorage connector designed for use with horizontal I-beams, S-beams and W-beams. This easy-to-install unit features a swivel attachment ring to prevent twisting of the worker's lanyard or connecting device. The 450 model can be used on beams up to 9 inches wide. The 455 model can be used on beams up to 12-1/2 inches wide.

460 Anchorage Bracket

The Miller anchorage bracket serves as a permanent tie-off point for an array of construction, industrial and maintenance applications. Constructed of heavy-duty steel, it comes complete with hex bolts, washer, lock nuts, a 3/4 inch diameter eye bolt and drilling template.



470 Wire Hook

The Miller stainless steel wire hook provides a safe anchorage point for an array of applications including railings, small I-beams, angle iron and scaffolding. Installation is fast and easy: simply squeeze the spring-loaded hook and slip the large opening over the approved structure.

We put the *fast* in fasteners

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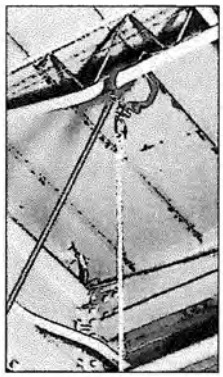
MILLER®

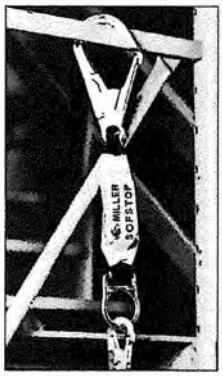
Anchorage Connectors

475 Extension Pole/Hook



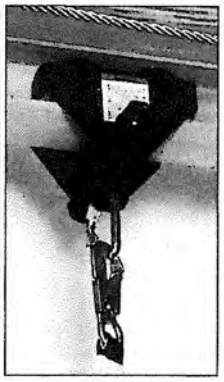
The 20 foot pole and hook is designed for climbing ladders, towers or any application where quick, temporary overhead anchorage is needed. The pole, extends up to 20 feet, and the spring-loaded hook securely attaches lifelines to beams, angle iron, piping and related structures. The 475 is an ideal complement to the Miller trailing rope grab. No tools required.

485 Hook Anchor w/Shock Absorber



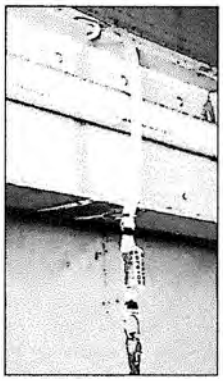
This Miller anchorage connector offers the same benefits as the 480 model, but also includes a SofStop shock absorber to reduce the forces of falling.

8804 Beam Trolley



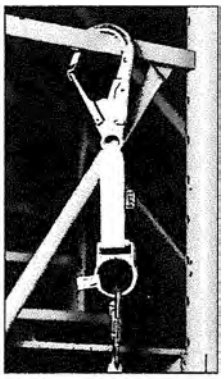
For I-beam anchorage applications requiring maximum mobility, Miller offers the beam trolley connector. The steel trolley accommodates I-beams from 3 inches to 8 inches wide, and is ideally suited for the attachment of lanyards, carabiners and retractable lifelines.

9183 Cross-Arm Strap w/Shock Absorber



Designed to form a secure, low cost anchorage point for various connecting devices, the 9183 features 2 inch nylon webbing, forged D-rings and an integral SofStop shock absorber which greatly reduces the force of falling. Installation on beams, pipes and railings is easily accomplished. No tools required.

480 Webbing/Hook Anchor



Designed to facilitate anchoring to scaffolding, pipe or angle iron, the 480 features a large snap hook with a 2-1/2 inch throat opening for easy, one-hand installation and a D-ring to accommodate the connecting device. No tools required.

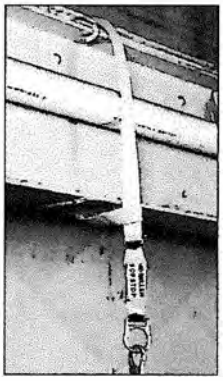
8183 Cross-Arm Strap

8183

The Miller cross-arm strap is designed to wrap around I-beams and other structures forming a secure attachment point for lanyards and other connecting devices. Manufactured from 2 inch nylon webbing for maximum strength, the strap features a 2 inch forged D-ring which slips through a 3 inch D-ring. Standard length is 6 feet; other lengths available upon request.

8185 Looped Cross-Arm Strap *(Not shown)*

This 2 inch nylon webbing cross-arm strap features a 2 inch forged D-ring which slips through looped webbing. Standard length is 6 feet. Other lengths available upon request.



9186

9186 Looped Cross-Arm Strap w/Shock Absorber

This Miller anchorage connector is an economical version of the 9183 in which the large D-ring has been replaced by a nylon loop. Like the 9183, the integral SofStop shock absorber provides added safety. No tools required.

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MILLER®

Fall Protection Equipment

TEMPORARY HORIZONTAL LIFELINE

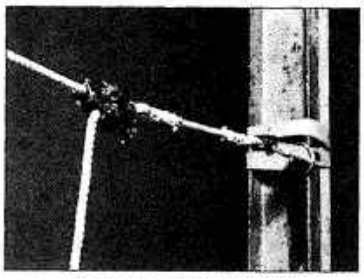
Suspended between two approved anchor points, the Miller® Temporary Horizontal Lifeline System permits a worker to freely traverse horizontal distances up to 60 feet to perform an array of construction, maintenance or inspection activities. The lifeline system is designed for use by one person. Components of the system include a 5/8 inch polyester lifeline, an anchorage lanyard and a lifeline tensioner complete in a handy carrying bag.

Model #RHL30
- Temporary Horizontal Lifeline System – span 30 feet

Model #RHL60
- Temporary Horizontal Lifeline System – span 60 feet

Replacement Parts:

9031	Rope tensioner
9032	Anchorage lanyard
199RLS-5-35	30-foot lifeline
199RLS-5-65	60-foot lifeline



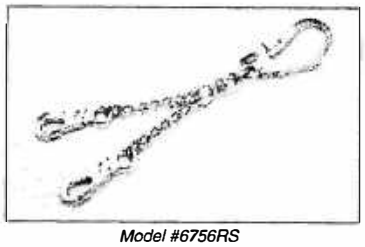
Temporary Horizontal Lifeline

Accessories:

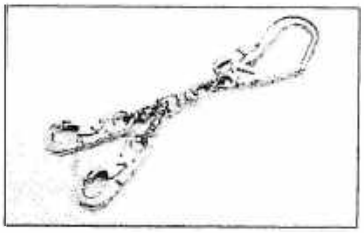
8183	6-foot, polyester webbing cross arm strap
650	VersaLite harness (U.S. only)
216WLS	6-foot Manyard® shock-absorbing lanyard (U.S. only)
201RLS-8	Rope lanyard (U.S. only)
3650	Full-body harness (Canada only)
216L	6-foot shock-absorbing lanyard (Canada only)
201L	Rope lanyard (Canada only)

ACCESSORIES

REBAR CHAIN ASSEMBLIES



Model #6756RS



Model #6756RS4

Model #6756RS
- 13-link rebar chain assembly with two (2) plated locking snap hooks with 3/4 inch throat openings and one (1) plated locking snap hook with a 2 inch throat opening. Swivel attachment.

Model #6756RS4
- 4-link rebar chain assembly with two (2) plated locking snap hooks with 3/4 inch throat openings and one (1) plated locking snap hook with a 2 inch throat opening. Swivel attachment.

GENERAL FALL PROTECTION RECOMMENDATIONS

The following items are highly recommended to provide maximum protection of workers and ensure compliance with regulations and standards. All work environments are different, so the following are guidelines only. When establishing your own fall protection program, choose the correct Miller® system to meet your needs.

A. Warnings: Always read all instructions and warnings contained on and in the product packaging before using any fall protection equipment.

B. Inspection: All fall protection equipment should be inspected prior to use by following procedures outlined in the MillerGuide brochure.

C. Training: All workers should be trained by a competent person in the proper use of fall protection products.

D. Regulations: Understand all Federal, State, Local and Provincial regulations pertaining to fall protection before using the equipment.

E. Rescue Pre-Planning: Minimizing the time between a fall occurrence and medical attention of the workers is vitally important. A thorough rescue program should be established prior to using fall protection equipment. Employers should provide for a prompt rescue should a fall occur. Rescue procedures should be reviewed on a regular basis as part of the company's overall safety training program.

F. Equipment Preferences: If there are any doubts about which fall protection product to use, choose the following basic system:

1. **Full-Body Harness with Sliding Back D-Ring**
   Should a fall occur, the body harnesses will distribute the load throughout the body instead of concentrating the forces on the abdomen, as is the case with traditional body belts. The sliding back D-Ring will keep the worker in an upright position in the event of a fall, which allows the worker to remain as comfortable as possible while awaiting a rescue.
2. **Shock-Absorbing Lanyards with Locking Snap Hooks**
   Lanyards with built-in shock absorbers reduce fall arresting forces by 65-80% compared to forces generated by traditional lanyards.
   Locking snaps feature self-closing, self-locking keepers which remain closed until unlocked and pressed open for connection or disconnection. This feature of locking snaps significantly reduces the possibility of accidental disengagement or "rollout."
3. **Reliable Anchorage Points**
   Anchor points or attachments must be capable of supporting 5000 lbs. per worker. If there is any doubt about the strength of the attachment point – DO NOT ATTACH. Search for an alternative anchor point.

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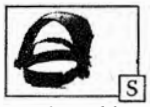
AMERICAN ALLSAFE COMPANY®

FACE PROTECTION ANSI Z87.1



A-F4000T #27912

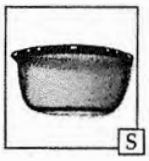
- Faceshield not included
- Adjustable ratchet headband
- Crown assembly pivots up
- Low-riding nape strap for firm fit
- Also available: headgear packed with faceshield #27971

A-5500X #22640

- Lightweight nylon bracket
- Pivots up and secures in 3 different positions
- Fits Sentry III™, Poly-Guard™, Ram Cap™ and other safety caps with universal slots

Visor with Chin Cup #22690

- 8" x 15½" x 0.40" visor
- Optical grade polycarbonate
- Headgear sold separately



6513 Screen #22692

- 6513 wire screen is available for jobs requiring non-plastic window such as forestry applications

A-F3000L #27910

- Economical
- Adjustable ratchet headband
- Durable nape strap for secure fit
- Crown and faceshield pivot up

A-5500SN #22639

- Designed for caps without universal slots
- Fits virtually any safety cap
- Heavy-duty rubber cord holds bracket securely in place
- Dielectric

Complete "Above-the-Shoulder"(ATS) Protection System

- Complete packaged system includes:
- Sentry Cap
- HS100 Bracket
- Visor
- Hearing muff (HS-20)

White Cap #14623 Orange Cap #14764 Yellow Cap #14624

A-F2000L #27911

- Economical
- Pin-lock headband
- Durable nape strap for secure fit
- Crown and faceshield pivot up

A-8100G #27908

- Swivel posts lock faceshield in place
- Heavy-duty, durable aluminum model fits variety of safety caps

A-8100H #27906

- For full brim hats

MonoShield™ w/Goggle #10179

- Distortion-free vision
- Provides splash and impact protection

NOTE: Can only be worn with G211 MonoGoggle®

8154 #22643

- 8" x 15-1/2" x .040"
- Aluminum bound reinforced edge
- Headgear sold separately

All visors made from polycarbonate (A) material provide 99.9% UV protection

ALLSAFE FACESHIELDS FEATURE A UNIVERSAL HOLE PATTERN DESIGN

DESCRIPTION	DIMENSIONS	Faceshield Polycarbonate (A) ITEM NO.	PETG (B) ITEM NO.
4128LB	8" x 12" x .040"	22641	22614
4128B	8" x 12" x .040"	N/A	N/A
4189LB	9" x 18" x .040"	22654	22617
4200LB	10" x 20" x .040"	22655	22657
4208LB	8" x 20" x .040"	22656	22658
8140LB	8" x 15½" x .040"	22663	22669
8154B	8" x 15½" x .040"	22643	N/A
8154LB	8" x 15½" x .040"	22644	22648
8156LB	8" x 15½" x .060"	22647	N/A
8156B	8" x 15½" x .060"	22646	N/A
8156MOLD	8" x 15½" x .070"	22677	N/A
8154LBDG	8" x 15½" x .040"	22667	N/A
8154LBMG	8" x 15½" x .040"	22645	22681
9194LB	9" x 19¼" x .040"	22702	N/A
9196LB	9" x 19¼" x .060"	22701	N/A
6513 - Screen	6½" x 13 (15/.009" opening)	22692	N/A

Caution: All faceshields must be worn with protective spectacles or goggles in accordance to ANSI Z87.1

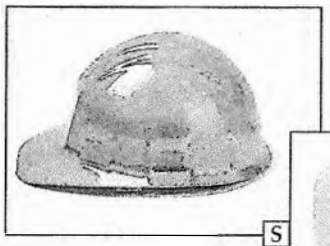
LB = Without Binding B = Bound MG = Medium Green DG = Dark Green Mold = Molded

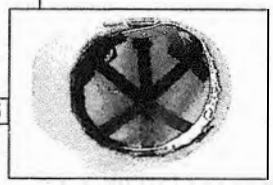
NOTE: Special designs available; call factory for information.

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

AMERICAN ALLSAFE COMPANY®

HEAD PROTECTION ANSI Z89.1

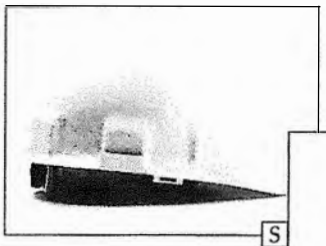


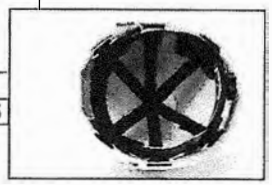


Sentry III™ Suspension* #14429

Sentry III™ #14071

- Lightweight 12½ oz.
- Adjusts to fit sizes 6½ to 8
- Wide nape strap for secure fit
- Universal slots accommodate hearing, welding and faceshield accessories
- Comfortable six-point nylon suspension with Coolmax™ terrycloth sweatband

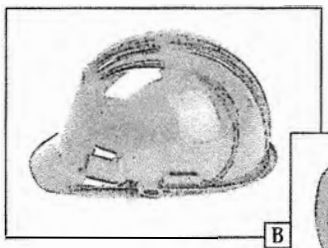


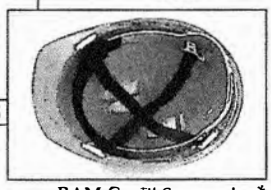


Sentry III™ w/Ratchet Suspension* #14431

Sentry III™ w/Ratchet #14011

- Lightweight 13½ oz.
- Adjusts to fit sizes 6½ to 8
- Ratchet holds cap in place for secure fit
- Universal slots accommodate hearing, welding and faceshield accessories
- Comfortable six-point nylon suspension

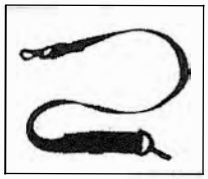




RAM Cap™ Suspension* #14738

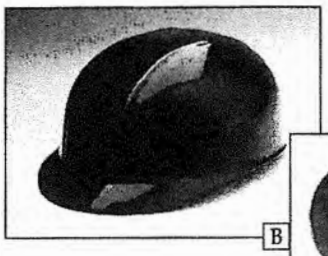
RAM Cap™ #14715

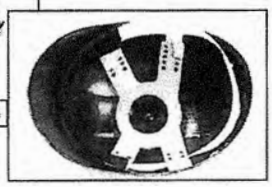
- Lightweight 12 oz.
- Adjusts to fit sizes 6½ to 8
- Four-point nylon suspension system with low nape strap
- Universal slots accommodate hearing, welding, and faceshield accessories
- Rain trough
- Short-peak design doesn't interfere with field of vision



Elastic Chin Strap #14998

- Simple
- Fits majority of safety caps
- Non-binding
- Economical



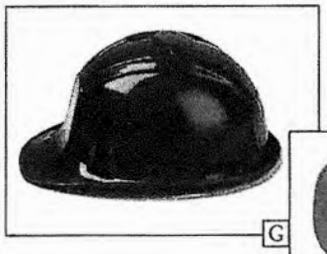


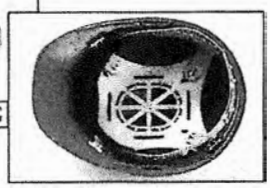
Bump Cap Suspension* #14425

Bump Cap #14377

- Lightweight 6½ oz.
- Adjusts to fit sizes 6½ to 8
- Four-point adjustable plastic suspension system
- Ventilation holes in cap sides plus clearance between shell and suspension for maximum air circulation over wearer's head

CAUTION: Bump Caps do not meet ANSI Z89.1 and are not to be worn for protection from impact of falling or glancing objects.





Poly-Guard™ Suspension* #14428

Poly-Guard™ #14263

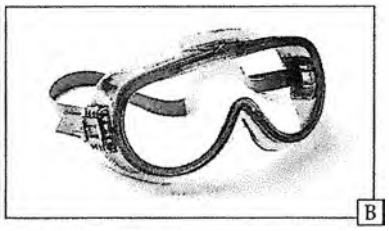
- Lightweight 13 oz.
- Adjusts to fit sizes 6½ to 8
- Four-point molded plastic suspension system
- Wide nape strap for secure fit
- Rain trough
- Universal accessory slots allow quick attachment of hearing, welding and faceshield accessories

**All caps supplied with Coolmax℠ terrycloth sweatbands to wick away user's perspiration for comfort. Coolmax℠ is a certification mark of DuPont*

AMERICAN ALLSAFE COMPANY®

PROTECTIVE GOGGLES ANSI Z87.1

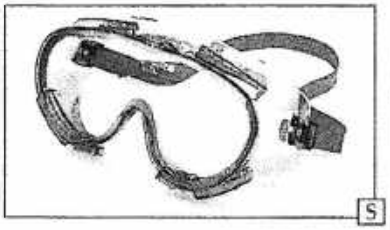
Chemical Splash Goggles



MRXV™ #10276

- Indirect ventilation
- Spherical lens provides range of vision of more than 160° while protecting against chemical splash
- .090" polycarbonate lens

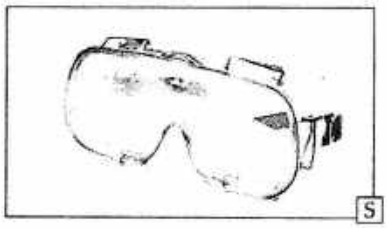
LENS	FRAME COLOR BLUE	SMOKE	CLEAR
Clear	10276	10280	10457
Clear FogGard® Plus	10277	10281	10456



MonoGoggle® 211 #10115

- Indirect ventilation
- Separate nosepiece – soft, pliable plastic for snug, comfortable seal
- .060" polycarbonate lens
- Frame designed with pantascopic angle to improve work area visibility
- Indirect ventilation increases airflow, while protecting against chemical splash

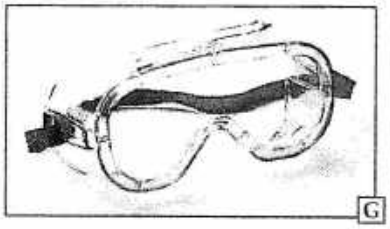
LENS	FRAME COLOR GREEN
Clear	10032
Clear FogGard® Plus	10115



MonoGoggle® VPC #10195

- Indirect ventilation
- 35% larger lens than most competitive goggles permits wear over today's larger prescription eyewear
- .060" polycarbonate lens
- Increased indirect ventilation and separate, soft, pliable nosepiece for comfort
- Pantascopic design increases field of vision

LENS	FRAME COLOR BRONZE
Clear	10191
Clear FogGard® Plus	10195

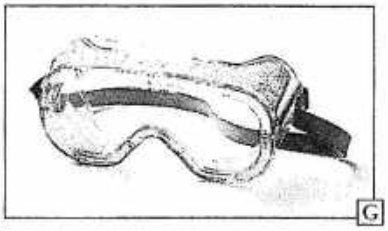


SG34 #10257

- Indirect ventilation
- .060" polycarbonate lens
- Economical chemical splash protection
- Bulk pack/200 pair

LENS	FRAME COLOR GREEN
Clear	10258
Clear Anti-Fog	10257
Clear 48 pr./shipper	10467
Clear Anti-Fog 48 pr./shipper	10466

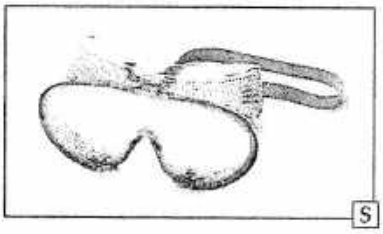
Dust Goggles



SG30 #10260

- Direct ventilation
- .060" polycarbonate lens
- Economical protection
- Bulk pack/200 pair

LENS	FRAME COLOR GREEN
Clear	10260
48 pr./shipper	10468



MonoGoggle® 201 #10014

- Direct ventilation
- Separate nosepiece – soft, pliable plastic for snug, comfortable seal
- Perforated frame, direct ventilation, impact protection for environments where chemical splashes and fumes are not primary hazards
- .060" polycarbonate lens
- *Frame:* green
- *Lens:* clear

LENS	FRAME COLOR GREEN	CLEAR
Econopack - clear *12 pr./bag, 36 pr./shipper*	10014	10458

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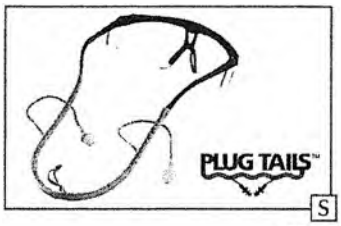
AMERICAN ALLSAFE COMPANY®

SPECTACLE ACCESSORIES

PLUG TAILS™

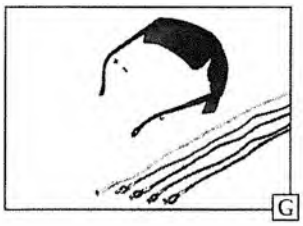


Plug Tails™ #23263

- NRR: 25
- Unique patented reusable silicone plugs and spectacle lanyard all-in-one
- Neon raspberry lanyard with green silicone plugs **(small #23262)**
- Neon green lanyard with orange silicone plugs **(medium #23263)**
- Neon yellow lanyard with blue silicone plugs **(large #23264)**
- **See page 12 for additional information**

Note: Spectacles not included.

CORDS

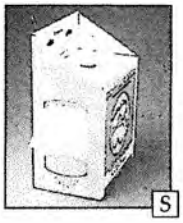


Spectacle Cords

Black	**#18594**
Electric Blue	**#18595**
Glacier Green	**#18596**
Neon Orange	**#18597**
Neon Yellow	**#18598**
Red	**#18599**
Violet	**#18600**

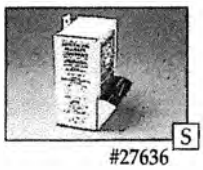
- Conveniently fit any spectacle, to have them readily accessible

ANTI-FOG LENS CLEANER



Deluxe Lens Cleaning Station **#27635**

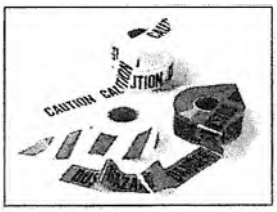
- For glass, plastic and polycarbonate lenses, goggles and faceshields
- Anti-fog, anti-static formula
- Contains one 16 oz. spray bottle and 1200 low lint tissues
- Sturdy corrugated construction with easy wall mount design.



#27636

- Also available: lens cleaning towelettes (100 individually packaged)

BARRICADE TAPE



- For restricting traffic around temporary hazards
- Strong polyethylene tape
- Economical 3" x 1000' rolls

"Caution, Caution"	**#26420**
Red with white stripe	**#26439**
"Danger"	**#26436**
"Caution Do Not Enter"	**#26421**
"Danger Asbestos Dust Hazard"	**#26436**
"Caution – Cuidado"	**#26668**
"Danger – Peligro"	**#26669**

WE STOCK SAFETY FLAGS

FSI YOUR ONE STOP SOURCE FOR ALL YOUR SAFETY NEEDS

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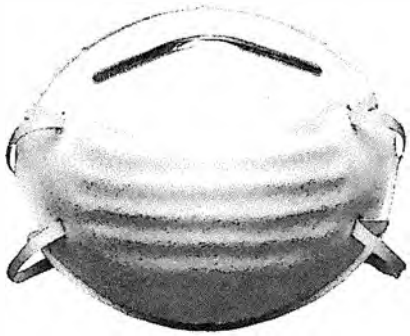
FAX (610) 692-8151

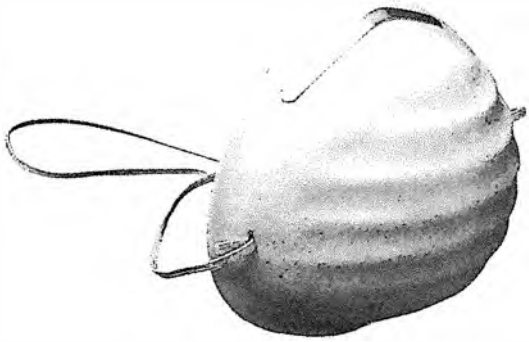
PYRAMEX SAFETY PRODUCTS

Safety Products



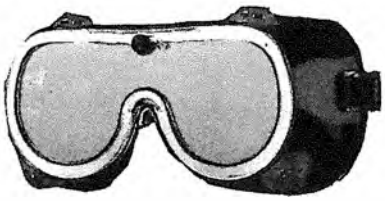
Dust • Mist Mask

- NIOSH approved Dust/Mist mask
- Features stapled heavy-duty head straps
- Flexible metal nose-piece adjusts to fit every individual user
- Foam inner-piece provides user comfort
- Lightweight and disposable
- 95% effective against particulate aerosols free of oil (N95)



Nuisance Mask™

- Ideal for sanding, grinding, cleaning and farm work
- Lightweight, comfortable and disposable
- Flexible metal nosepiece adjusts to fit every individual user

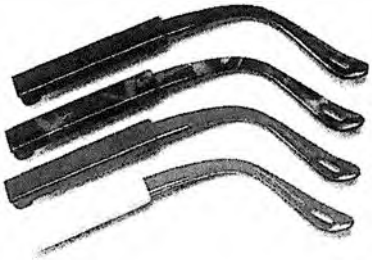


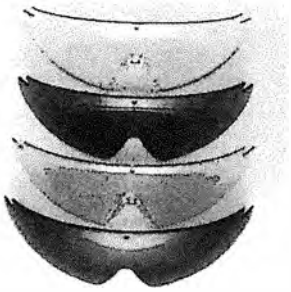
Goggles

- Constructed of soft, comfortable vinyl
- Polycarbonate lens meets ANSI Z87.1 impact standards
- Wide, adjustable headband
- Chemical splash goggles feature vent caps to restrict the influx of liquids
- Perforated goggles provide excellent ventilation
- Both available with fog free coating

Solo™

- Available in four colors-clear, gray, amber and anti-glare green
- Lightweight and economical, makes a great visitor spectacle
- Vented temples for additional comfort
- Meets all ANSI Z87.1 specifications
- Available with an additional coating to protect from scratching
- *Now available in jumbo size to fit over prescription lenses*





Blazer™

- Contemporary styling for increased user acceptance
- Curved lens provides greater peripheral vision
- Lightweight nylon frame features adjustable temples for a custom fit
- Integrated browguard provides overhead protection
- Available in a variety of fashionable frame colors
- Replaceable polycarbonate lenses available in clear, grey, amber and mirrored
- All Pyramex® lenses are ANSI Z87.1 approved and 99% UV rated

Integra™

- The Integra® is available in a variety of frame colors and lens tint
- The lightweight, contemporary styling ensures wearer acceptance
- The Integra has adjustable temples for a custom fit
- Replacement lenses are available
- All Pyramex safety glasses meet or exceed ANSI Z87.1 specifications
- All Pyramex™ lenses are 99% UV rated
- Available in 3.0 and 5.0 filter lenses
- Metal frames available in black or gold

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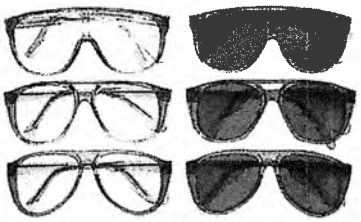
PYRAMEX SAFETY PRODUCTS

Safety Products



Monitor Styles and Colors

Prelude™

- High impact and scratch resistant polycarbonate lenses available in clear, grey, amber, 3.0 filter and blue mirror
- Frames constructed of durable, lightweight nylon
- Nylon frames are available in black or blue
- Replacement lenses are available
- High impact protective sideshields
- Available in dual and single lens styles
- All Pyramex lenses are ANSI Z87.1 approved and 99.9% UV rated

Tribute Style and Lens Shades

Pathfinder™

- High impact and scratch resistant polycarbonate lenses available in clear, grey, and amber
- Flexible metal temples for easy adjustment and a custom fit
- Padded nose bridge in soft PVC material for greater comfort
- Replacement lenses are available
- Metal frames available in gold or black
- All Pyramex lenses are ANSI Z87.1 approved and 99.9% UV rated

Monitor & Tribute™

- Monitor™ meets/exceeds ANSI Z87.1 specifications
- Lenses provide 99.9% UV protection
- High impact, scratch resistant polycarbonate lenses
- Available in conventional, aviator or single lens
- Lens available in clear, grey, 3.0 and 5.0 IR filters
- Reinforced with wire driven temples
- Replacement lenses available

- Tribute™ meets/exceeds ANSI Z87.1 specifications
- Lenses provide 99.9% UV protection
- Brow guard front provides protection from airborne particles
- High impact, scratch resistant polycarbonate lenses
- Available in clear and grey lenses

Rainwear

- Constructed of .35mm PVC on Polyester
- Welded seams prevent leakage
- Available in sizes Small through 5XL
- Nonconductive nylon fasteners
- Jackets and coats feature nylon snap closures, patch pockets and raglan sleeves
- Bib overalls feature adjustable suspenders and take-up snaps at waist
- Generously sized for a comfortable fit
- Styles available:
  - •Two and three piece suits
  - •Jackets with permanent or detachable hood
  - •Bib overalls
  - •Elastic waist rainpants
  - •49" Raincoats

Elastic waist rainpants

49" Raincoat with hood

Same day color match - In house painting

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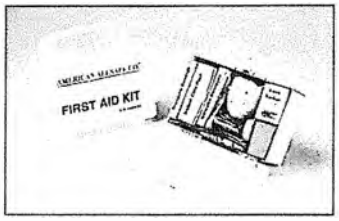
AMERICAN ALLSAFE COMPANY®

FIRST AID KITS

OSHA requires manufacturers of first aid kits to conform to its regulations regarding contents and containers. OSHA requires workplaces to consult with the company physician as to whether the first aid kit is adequate for the company's needs. A physician authorization card is included with our kits for complete compliance. See OSHA excerpts.



8 - 10 Person Kit

- Great when safety and space are a concern
- Contents have been selected to treat most minor emergencies

Plastic w/out Gasket	B	#28582
Plastic w/Gasket	S	#28536
Plastic w/out Gasket	B	#28533
Metal w/out Gasket	B	#28539

20 - 25 Person Kit

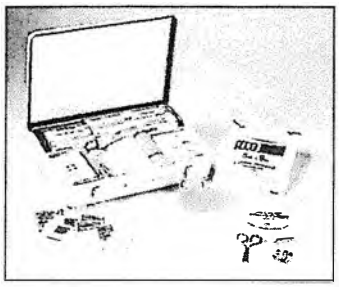
- Contents have been selected to treat most minor emergencies
- Most popular selling kit
- Latex gloves included (6 pair)

Plastic w/Gasket	S	#28537
Plastic w/out Gasket	B	#28534

30 - 35 Person Kit

- Also contains CPR rescue breather
- #28543 is housed in a heavy-duty baked enamel case with rounded corners for long lasting use

Plastic w/Gasket	S	#28538
Plastic w/out Gasket	B	#28535
Metal w/Gasket	S	#28543
Metal w/out Gasket	B	#28541



40 - 50 Person Kit

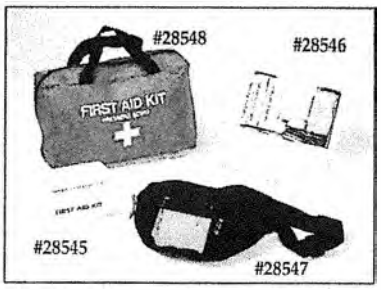
- Designed to support the larger job site or workplace
- Also contains CPR rescue breather

Plastic w/Gasket	S	#28590
Metal w/out Gasket	B	#28542

100 Person Metal Kit

- Ideal for industry, large offices, schools and warehouses
- CPR rescue breather, eye wash, and latex disposable gloves 9 pr.

Metal w/out Gasket	S	#28586



Vehicular Kit #28546

- Ideal for glove compartment, trunk, under seat storage. Unitized
- Rescue foil blanket

Mobile Kit #28547

- Durable black nylon pack with belt loop to keep hands free
- Rescue foil blanket. Unitized

Personal Kit #28545

- Ideal for employee award and/or recognition programs
- Packed with essential first aid supplies
- Dimensions: 5" x 5½" x 2"

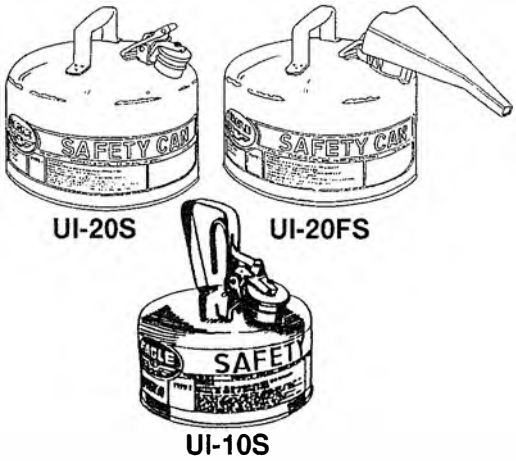
Sport Pouch #28548

- For those who want to travel with a first rate kit with out the weight
- Latex gloves included (4 pair)
- Unitized

OSHA 1910.151
Medical services and first aid.
(a) The employer shall ensure the ready availability of medical personnel for advice and consultation on matters of plant health.
(b) In the absence of an infirmary, clinic, or hospital in near proximity to the workplace which is used for the treatment of all injured employees, a person or persons shall be adequately trained to render first aid. First aid supplies approved by the consulting physician shall be readily available.

OSHA 1926.50
Medical services and first aid.
(d) (1) First aid supplies approved by the consulting physician shall be easily accessible when required.
(2) The first aid kit shall consist of materials approved by the consulting physician in a weatherproof container with individual sealed packages for each type of item. The contents of the first aid kit shall be checked by the employer before being sent out on each job and at least weekly on each job to ensure that the expended items are replaced.

SAFETY CANS



UI-20S UI-20FS

UI-10S

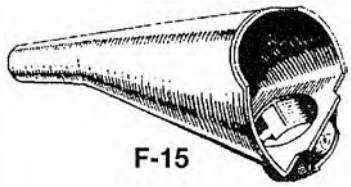
Safety cans made from heavy 24 gauge steel. Equipped with brass flame arrestor. Funnel is available for 1, 2, and 5 gal. models.

Metal Type I Safety Cans

Model No.	Capacity	Approval	Bottom Diameter	Height	Weight	Packed per Carton
UI-2S	1 qt.	UL,ULC,FM	5¼-	8"	1.96 lbs.	1
UI-4S	2 qt.	UL,ULC,FM	6¾"	8¾"	2.59 lbs.	1
UI-10S	1 gal.	UL,ULC,FM	9"	10"	3.31 lbs.	1
UI-10FS	1 gal.	UL,ULC,FM	9"	10"	3.52 lbs.	1
UI-20S	2 gal.	UL,ULC,FM	11¼"	9½"	5.00 lbs.	1
UI-20FS	2 gal.	UL,ULC,FM	11¼"	9½"	5.25 lbs.	1
UI-50S	5 gal.	UL,ULC,FM	12½"	13½"	6.75 lbs.	1
UI-50FS	5 gal.	UL,ULC,FM	12½"	13½"	7.00 lbs.	1

F in Model No. Indicates with F-15 Funnel

Type Two SAFETY CANS
Approved - Listed - Labeled
Underwriters' Laboratories, Inc. Factory Mutual
Underwriters' Laboratories of Canada



F-15

This funnel is designed for use with Eagle's Type I Safety Cans. It is constructed from High Density Polyethylene and has good impact strength. The funnel is 9" long with the smaller end having a ⅞" I.D. and 1⅛" O.D.

Model No.	Length	Weight	Packed per Carton
F-15	9"	.25 lbs. ea.	Six

Eagle Type II Safety Cans are equipped with an air vent to eliminate back pressure, flexible metal pour spout, 1-inch O.D. to permit convenient pouring, easy working valve for positive control while pouring, and flame arrestor screens in both filler opening and pouring spout. Made from 24-gauge steel.

Model No.	Capacity	Approval	Flexible Spout Length	Packed per Carton	Weight Each
U2-26-S	2 Gal.	UL, ULC, FM	12 in.	One	6½ lbs.
U2-51-S	5 Gal.	UL, ULC, FM	12 in.	One	8 lbs.

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Bolmar Industrial Center
West Chester, PA 19382

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KIDDE

EXCEL LINE™
DRY CHEMICAL

DRY CHEMICAL
Tri-Class & Regular

- Nylon valve (Du Pont ZYTEL® ST) body provides superior strength and toughness for hostile environments.
- Non-corrosive valve and cylinder is ideal for coastal applications and other extreme conditions.
- Aluminum cylinder models are virtually non-magnetic for hospitals and military applications.
- Seamless aluminum and steel cylinders have chip-resistant epoxy finish.
- Reliable gauge for fast and easy pressure checks.
- Rechargeable unit is easy to service.
- Improved dry chemical agents provide higher UL ratings than other agents in comparable sizes.
- Fits all standard cabinets.
- Mar-resistant pictogram mylar label.

DRY CHEMICAL
TRI CLASS, REGULAR & PURPLE K

Tri-class dry chemical, primarily non ammonium phosphate, is a non-toxic agent which extinguishes flames in seconds and inhibits reflush. It is effective against Class A, B and C fires.

Regular dry chemical, primarily sodium bicarbonate, is a non-toxic agent which quenches fire fast. It is effective against Class B and C fires.

Purple K dry chemical, potassium bicarbonate, is a highly effective, dry chemical, superior to other dry chemicals, effective on Class B and C fires.

Trusted Fire Protection From The Industry Leader

6 YEAR WARRANTY

BEST INDUSTRY HAS TO OFFER

Effective suppression of Class A, B and C or Class B and C fires.

Fastener Systems, Inc.
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SPECIFICATIONS AND ORDER INFORMATION
EXCEL LINE DRY CHEMICAL™

IN CASE OF FIRE TRUST KIDDE

UL RATING	1-A:10-B:C	3-A:40-B:C	4-A:60-B:C	10-B:C	40-B:C	60-B:C	10-B:C
AGENT - DRY CHEMICAL	ABC	ABC	ABC	BC	BC	BC	BC
MODEL	XL 2 1/2 TCZ	XL 5 TCZ	XL 10 TCZ	XL 2 3/4 RZ	XL 6 RZ	XL 10 RZ	XL 5 PKZ
PART NUMBER	466225	466164	899921	466226	466057	899920	466332-01
CONTENTS (LB/KG)	2.6/1.2	5/2.3	10/4.5	2.8/1.3	6/2.7	10/4.5	5/2.3
FILLED	3.9/1.8	7.9/3.6	17/7.7	4.0/1.8	9.6/4.3	17/7.7	7.9/3.6
SHIPPING (LB/KG)	4.2/1.9	8.5/13.9	19.25/8.7	4.3/2.0	9.4/4.3	19.25/8.7	9.4/4.3
DIAMETER (IN./CM)	3.3/8.3	4.5/11.5	5.12/13	3.3/8.3	4.5/11.4	5.12/13	4.5/11.4
HEIGHT (IN./CM)	15/38.1	19.8/50.7	21.18/53.8	15/38.1	19.8/50.2	21.18/53.8	19.8/50.2
WIDTH (IN./CM)	4.7/11.9	7.8/19.7	8.22/20.9	4.7/11.9	8/20.3	8.22/20.9	7.8/19.7
DISCHARGE TIME (SEC.)	8-10	13-15	17-21	8-10	13-15	17-21	13-15
DISCHARGE RANGE (FT.)	10-15	12-18	16-20	10-15	12-18	16-20	12-18
OPTIONAL METAL STRAP BRACKET P/N	466401	466400	366242	466401	466400	366242	466400
OPERATING PRESSURE	100PSI	195PSI	195PSI	100PSI	195PSI	195PSI	100PSI
CYLINDER (MATERIAL) PACKAGING	ALUMINUM	ALUMINUM	STEEL	ALUMINUM	ALUMINUM	STEEL	ALUMINUM
(UNITS / OVERPACK)	6	4	1	6	4	1	4
TYPE BRACKET PROVIDED	NYLON STRAP	WALL HANGER	WALL HOOK	NYLON STRAP BRACKET	WALL HANGER	WALL HOOK	METAL STRAP BKT.

Applications

Compact extinguishers are designed for:
• Apartments • Homes • Vehicles • Trailers

Large extinguishers designed for industrial business applications which include:
• Laboratories • Plants • Commercial kitchens
• Schools • Garages • Trucks • Hospitals • Hotels

Operable Temperature Range All Models:
(-40°F + 120°F) (-40°C to +48°C)

Authorized Distributor

Approvals and Listings:

ANSI/UL Underwriters Laboratories, Inc.
DOT Department of Transportation
OSHA Occupational Safety and Health Ad.
USCG United States Coast Guard
BMC Bureau of Motor Carrier Safety Regs. Par. 393.95

Brackets:

Units are equipped with a metal wall hanger for mounting. Heavy-duty metal strap brackets may be purchased for U.S. Coast Guard and Bureau of Motor Carrier Approvals.

FOR ADDITIONAL TYPES AND SIZES OF EXTINGUISHERS CONTACT YOUR FSI REPRESENTATIVE

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REMINGTON®

POWER LOADS

Low Velocity Power Loads

.22 CALIBER NECK DOWN, CRIMPED

100/BOX, 20/MASTER CARTON		
ITEM NO.	DESCRIPTION	COLOR
29278	A22C1	Gray
29280	A22C2	Brown
29282	A22C3	Green
29284	A22C4	Yellow

25/BLISTER, 10/MASTER CARTON		
ITEM NO.	DESCRIPTION	COLOR
98162-01	A22C1	Gray
97184-01	A22C2	Brown
97185-01	A22C3	Green
97186-01	A22C4	Yellow

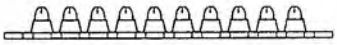
.25 CALIBER STRIP LOADS

For use in Hilti® tools.

100/BOX, 100/MASTER CARTON		
ITEM NO.	DESCRIPTION	COLOR
78754	S25C3	Green
78755	S25C4	Yellow
78756	S25C5	Red

.27 CALIBER STRIP LOADS

100/BOX, 20/MASTER CARTON		
ITEM NO.	DESCRIPTION	COLOR
78757	S27C3	Green
78758	S27C4	Yellow
78759	S27C5	Red



Remington Power Fastener Technical Information

Material — Modified, cold heading quality, AISI 1062-1065 steel wire austempered to a Rockwell C hardness of 53-56.

Plating — Zinc to a minimum of 0.0002"

Specifications
- Federal
  - Plating — QQ-Z-325C
  - Material — FF-P-395B

Specifications (cont'd.)
- ASTM
  - Plating — ASTM A164 Type RS
  - Material — ASTM A227 Class 1

Approvals

ICBO	Report No. 5067
City of L.A.	Research Report RR25214
Dade County	Acceptance No. 931027.08

TABLE 1 – ALLOWABLE WORKING VALUES FOR REMINGTON LOW-VELOCITY FASTENERS INSTALLED IN STONE-AGGREGATE CONCRETE (pounds)[1,2]

CATALOG NUMBER	SHANK DIAMETER (inches)	PENETRATION (inches)	MINIMUM EDGE DISTANCE (inches)	CONCRETE COMPRESSIVE STRENGTH									
				2,000 psi		2,500 psi		3,000 psi		3,500 psi		4,000 psi	
				Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear
SP 125 through SP 300	.144	1	3	90	150	100	155	110	160	120	170	130	180
	.144	1 1/4	3	165	180	170	195	180	210	185	225	195	240

[1]The fasteners must not be driven until the concrete has reached the designated ultimate compressive strength.
[2]The allowable shear and tension values are for the fastener only. Wood or steel members connected must be investigated separately in accordance with accepted design criteria.

TABLE 2 – ALLOWABLE WORKING VALUES FOR REMINGTON LOW-VELOCITY FASTENERS INSTALLED IN STEEL (pounds)[1,2]

CATALOG NUMBER	SHANK DIAMETER (inches)	MINIMUM EDGE DISTANCE	MINIMUM SPACING	STEEL THICKNESS	TENSION (pounds)	SHEAR (pounds)
SP 50 through SP 300	.144	1/2	1-1/2	3/16	160	680
	.144	1/2	1-1/2	1/4	200	680

[1]The entire pointed portion of the fastener must penetrate the steel to obtain the tabulated values.
[2]The allowable shear and tension values are for the fastener only. Wood or steel members connected must be investigated separately in accordance with accepted design criteria.

TABLE 3 – ALLOWABLE FASTENER SPACING FOR ATTACHMENT OF WOOD PLATE TO CONCRETE FOOTING OR SLAB[1,2]

CATALOG NUMBER	OVERALL LENGTH (inches)	HEAD DIAMETER (inches)	SHANK DIAMETER (inches)	MAXIMUM SPACING IN FEET		
				Interior Bearing Walls[3]	Interior Nonbearing Partitions[2]	Exterior Walls[3]
SP 300 or SPW 300	3	.300	.144	1.5	3.0	1.5

[1]Spacings are based upon the attachment of 2-inch nominal thickness wood sill plates with specific gravity of 0.48 or greater to concrete floor slabs or footings in accordance with Section 2326.6 of the code for maximum two-story buildings.
[2]All walls shall have fasteners placed at 6 inches from the ends of sill plates with maximum spacing between as shown above.
[3]Fasteners indicated shall have two pins placed at 6 inches and 10 inches respectively from each end of sill plates with maximum spacing as shown above.
[4]All fasteners must be installed with a minimum 1-inch diameter washer.

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
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REMINGTON®

POWDER ACTUATED FASTENERS

Low Velocity Power Fasteners
A Wide Selection of the Most Popular Items

.300 HEADED/.144 SHANK DIAMETER SP SERIES POWER FASTENER

100/BOX, 10/MASTER CARTON		
ITEM NO.	ITEM DESCRIPTION	SHANK LENGTH
58046	SP50	1/2"
58047	SP75	3/4"
58048	SP100	1"
58049	SP125	1-1/4"
58050	SP150	1-1/2"
58051	SP200	2"
58052	SP250	2-1/2"
58053	SP300	3"
78689	KP50	1/2" (Knurled)

2000/PAIL, 2/MASTER CARTON		
ITEM NO.	ITEM DESCRIPTION	SHANK LENGTH
95947	PSP75	3/4"

25/BLISTER, 10/MASTER CARTON		
ITEM NO.	ITEM DESCRIPTION	SHANK LENGTH
97179-01	SP100	1-1/2"
97180-01	SP150	2-1/2"
97181-01	SP250	2-1/2"

1000/BOX, 1/MASTER CARTON		
ITEM NO.	ITEM DESCRIPTION	SHANK LENGTH
77490	BSP50	1/2"
78683	BKP50	1/2" (Knurled)
59897	BSP75	3/4"
99375	BSP150	1-1/2"
99376	BSP250	2-1/2"

.300 HEADED/.144 SHANK DIAMETER W/1" WASHER SPW WASHERED POWER FASTENERS

100/BOX, 10/MASTER CARTON		
ITEM NO.	ITEM DESCRIPTION	SHANK LENGTH
77557	SPW75	3/4"
77558	SPW100	1"
77559	SPW125	1-1/4"
77560	SPW150	1-1/2"
77561	SPW200	2"
77562	SPW250	2-1/2"
77563	SPW300	3"

12-20/BLISTER, 10/MASTER CARTON			
ITEM NO.	QTY.	DESCRIPTION	SHANK LENGTH
103071	20	SPW150	1-1/2"
103072	15	SPW250	2-1/2"
103073	12	SPW300	3"

.8MM HEADED/.144 SHANK DIAMETER RDN SERIES POWER FASTENERS

100/BOX, 10/MASTER CARTON		
ITEM NO.	ITEM DESCRIPTION	SHANK LENGTH
79952-1	RDN19	3/4"
79952-3	RDN27	1"
79952-4	RDN32	1-1/4"
79952-5	RDN37	1-1/2"
79952-6	RDN52	2"
79952-8	RDN62	2-1/2"
79952-9	RDN72	2-7/8"

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POWDER ACTUATED FASTENERS

.300 HEADED/.144 SHANK DIA. THREADED STUD 1/4"-20 THREADED

100/BOX, 10/MASTER CARTON	
ITEM NO.	DESCRIPTION
100766	3/4" Thread on 1" Shank
100765	3/4" Thread on 1/2" Knurled Shank

25/BLISTER, 10/MASTER CARTON	
ITEM NO.	DESCRIPTION
100760	3/4" Thread on 1" Shank
100761	3/4" Thread on 1/2" Knurled Shank

.300 HEADED/.144 SHANK DIA. 1" PIN ASSEMBLY CONDUIT CLIP

25-100/BOX, 1/MASTER CARTON		
ITEM NO.	QTY.	DESCRIPTION
100762	100	1/2" Conduit Clip
100763	50	3/4" Conduit Clip
100764	25	1" Conduit Clip

10-15/BLISTER, 10/MASTER CARTON		
ITEM NO.	QTY.	DESCRIPTION
100758	15	1/2" Conduit Clip
100759	10	3/4" Conduit Clip

1" CONTROL DISCS

100/BOX, 10/MASTER CARTON	
ITEM NO.	DESCRIPTION
15549	1" Diameter

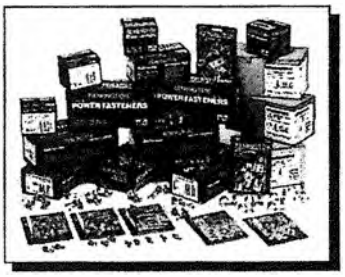
25/BLISTER, 10/MASTER CARTON	
ITEM NO.	DESCRIPTION
99015-01	1" Diameter

.300 HEADED/.144 SHANK DIA. TOP HAT PINS

100/BOX, 10/MASTER CARTON		
ITEM NO.	DESCRIPTION	SHANK LENGTH
103093	HT75	3/4"
103094	HT100	1"

CEILING CLIPS W/.300 HEADED/ .144 SHANK DIA. 1-1/4" POWER FASTENER

100/BOX, 10/MASTER CARTON	
ITEM NO.	DESCRIPTION
103095	ACC125



ASSORTMENT PACK

ITEM NO. 097971		
40 FASTENERS AND 40 LOADS/BOX, 12/MASTER CARTON		
QUANTITY	DESCRIPTION	SHANK LENGTH
10	SP100	1"
10	SP150	1-1/2"
20	SP250	2-1/2"

40 FASTENERS AND 40 LOADS/BOX, (CONT'D)		
QUANTITY	DESCRIPTION	COLOR
10	A22C1	Gray Loads
10	A22C2	Brown Loads
10	A22C3	Green Loads
10	A22C4	Yellow Loads

Hammer Drive Fasteners

1/4" HEADED W/3/8" WASHER RH SERIES FASTENER

100/BOX, 10/MASTER CARTON		
ITEM NO.	DESCRIPTION	SHANK LENGTH
103084	RH50	1/2"
103086	RH75	3/4"
103087	RH100	1"
103088	RH125	1-1/4"
103089	RH150	1-1/2"

25/BLISTER, 10/MASTER CARTON		
ITEM NO.	DESCRIPTION	SHANK LENGTH
103075	RH100	1"
103076	RH150	1-1/2"
103077	RH250	2-1/2"
103078	RH300	3"

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REMINGTON®

POWDER ACTUATED TOOLS

High Quality, Durable Tools For Small And Large Contractors

FOR THE PRO

REMINGTON 489 TRIGGER ACTUATED
Low Velocity Fastening Tool

Developed especially for the small contractor or less intensive use, the low velocity 489 tool packs a powerful punch at a very competitive price -- one of the lowest among all comparable tools.

- Rugged enough to drive 2½" power fasteners into concrete or steel. Also shoots 3" washered power fasteners.
- Super lightweight -- only 3½ pounds.
- Short 15" length also contributes to ease of handling.
- Uses .22 caliber, neck down, crimped low velocity power loads.
- "On the job" replacement barrel and piston design to eliminate tool downtime -- tool completely repairable.

UL

Item No. 98696
Comes with lockable carrying case, 1 hex wrench, spall shield, instructions and goggles.

REMINGTON 494 POWER PRO™
Low Velocity Fastening Tool

This tool has good power and weight for its price category. Designed for the medium volume user. Ideal for all types of fastening into concrete, masonry or steel.

- Fastens up to 3" power fasteners.
- Large breech opening for fast left or right handed loading.
- Superior balance for easy handling.
- Uses .22 caliber neck down, crimped low velocity power loads.
- Metal construction with high impact molded handle.
- Weighs slightly more than 4½ lbs.

Item No. 101222
Comes with lockable carrying case, goggles, spall shield, 2 piston rings, 2 buffers and instructions.

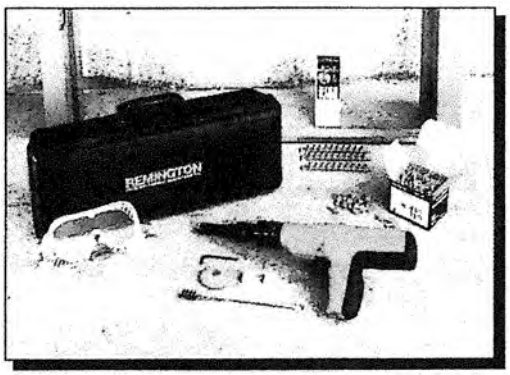
REMINGTON 496 SEMI-AUTOMATIC POWER PRO
Low Velocity Fastening Tool

A modern tool having state-of-the-art features for economical, repetitive fastening. Quick fastening due to 10 strip cartridges. Ideal for drywall track, window channels, door bucks, 2 x 4's and more. Lightest .27 caliber tool on the market for reduced operator fatigue.

- Uses .27 caliber 10-shot strip loads.
- Fastens up to 3" power fasteners.
- Fast, semi-automatic operation.
- Up to 8 fastenings per minute.
- Metal construction with high impact molded housing and a cushion grip handle.
- Lightweight, superior balance for easy handling.
- Weighs just under 4¼ lbs.

Item No. 102502
Comes with lockable carrying case, goggles, spall shield, hex wrench, 2 buffers, cleaning brush and instructions.

Item No. 101431
Same as above but tool only fastens up to 2½" power fasteners.



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REMINGTON®

POWDER ACTUATED TOOLS

Designed For The High Volume Industrial User

FOR THE PRO

REMINGTON 481 FASTRAK™
Low Velocity Fastening Tool

Fastrak's small diameter muzzle is ideal for mounting electrical boxes, conduit, dry wall track, window channels, door bucks, duct work and other short pin applications. The advanced handle design and ease of chambering lets you set up to seven Remington pins a minute. Sets ½" through 1½" length power fasteners. Perfect for dry wall track application.

- Lightweight, easy handling.
- Easy pull trigger combined with easy cocking and loading adds to operator comfort.
- Superior balance with rubber handle.
- Fast cycling, up to seven fastenings a minute.
- Driving piston that is larger than most competitive units gives long life and low maintenance.
- Uses .22 caliber, neck down, crimped low velocity power loads.
- Weighs 4¼ lbs.

UL

Item No. 78478

Comes with lockable carrying case, 2 hex wrenches, 2 cleaning brushes, spall shield, instructions and goggles.

REMINGTON 482 MULTI-DRIVER™
Low Velocity Fastening Tool

The most powerful and durable Remington tool. Up to 7 fastenings per minute into wood, concrete, steel or masonry. Ideal for fastening 2 x 4's and furring strips, quickly mounting electrical fixtures, door bucks, window frames or fastening in any other "hard to get at" areas.

- Small muzzle cap allows operation in confined and narrow areas.
- Handles power fasteners from ½" to 2½" long.*
- Large breech opening allows easy loading which increases productivity.
- Rubber contour handle.
- Superior overall balance; less total weight per unit of length; less wrist fatigue.
- Uses .22 caliber, neck down, crimped low velocity power loads.
- Weighs 5 lbs.

UL

Item No. 78480

Comes with lockable carrying case, 2 hex wrenches, 2 cleaning brushes, 3 spare buffers, spall shield, instructions and goggles.

*For 3" fasteners, use accessory muzzle #75961

REMINGTON 491 SEMI-AUTOMATIC
Low Velocity Fastening Tool

This semi-automatic tool is fast cycling, allowing up to 8 fastenings per minute. Ideal for mounting electrical junction boxes, conduit, drywall track, window channels, door bucks and duct work.

- Rugged, all-metal construction.
- Uses .27 caliber strip loads.
- Handles fasteners from ½" to 2½".*
- Quick disassembly for cleaning.
- Well balanced, with rubber handle for maximum operator comfort.
- Designed for low maintenance, maximum operator productivity, minimum downtime.
- Weighs slightly more than 5 lbs.

UL

Item No. 99502

Comes with lockable carrying case, 1 hex wrench, spall shield, cleaning brush, instructions and goggles.

*For 3" fasteners, use accessory muzzle #TA4050

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INSTA-FOAM

INSTA-STIK PROFESSIONAL ROOFING ADHESIVE

1. PRODUCT NAME

INSTA-STIK® Professional Roofing Adhesive

2. MANUFACTURER

Insta-Foam Products, Inc.
A Division of FLEXIBLE PRODUCTS COMPANY
1500 Cedarwood Drive
Joliet, IL 60435-3187
Phone: (815) 741-6800
(800) 800-3626
(416) 622-6844 (In Canada)
FAX: (815) 741-6822

3. PRODUCT DESCRIPTION

INSTA-STIK Professional Roofing Adhesive is a single component polyurethane adhesive dispensed from a portable prepressurized container requiring no external power source.

Basic Use: INSTA-STIK is used to attach compatible roof insulation boards to roof decks and substrates in new and reroof (replacement) applications; insulation board to insulation board; insulation board to Class I non-graveled (bald) built-up roofs for recover applications; insulation or gypsum board to 22 gauge (minimum) steel deck and wood deck.

INSTA-STIK is used to attach compatible roof insulation in loose laid and ballasted roof systems during low to moderate wind conditions.

Monolithic Deck Applications

Compatible Roof Insulations:
- Expanded polystyrene
- High density wood fiber
- Perlite
- Polyisocyanurate
- Foam glass

Compatible Roof Decks and Substrates:
- Lightweight concrete
- Poured-in-place concrete
- Precast concrete
- Cementitious wood fiber plank
- LS plank
- Non-graveled (bald) Class I built-up roofs

Compatible Underlying Class I Built-up Roof Decks and Substrates for Recover:
- Steel
- Treated lumber
- Treated plywood
- Cementitious wood fiber plank
- Concrete

Steel Deck Applications

Compatible Steel Deck Types:
Type A-18, 20, or 22 gauge steel
Type B-18, 20, or 22 gauge steel
Type F-18, 20, or 22 gauge steel

Compatible Roof Insulation and Gypsum Boards to Steel Decks:
- Perlite (¼" minimum thickness)
- Polyisocyanurate (1.5" minimum thickness)
- Fire-rated gypsum board (⅝" minimum thickness)
- Dens-Deck® Fiberglass-Faced Gypsum Roof Board (Georgia Pacific—¼" minimum thickness)

Compatible Roof Insulations to Roof Insulations (subsequent layers):
- Perlite: flat or tapered
- Expanded polystyrene: flat or tapered (1.25pcf min.)
- Polyisocyanurate: flat or tapered
- Wood fiberboard (½" minimum thickness)

Non-Compatible Applications

Non-Compatible Roof Insulation Boards:
- Extruded polystyrene
- Fiberglass

Application Rate Chart

Building Height	Parapet Wall Height	Perimeter Band Width	Deck Rate*	Perimeter Rate*
0-20'	0-24"	3'	1.0	2.0
	25"+	0'	1.0	1.0
21-40'	0-24"	6'	1.0	2.0
	25-48"	3'	1.0	2.0
	49"+	0'	1.0	1.0
41-70'	0-24"	9'	1.0	2.0
	25-48"	6'	1.0	2.0
	49"+	3'	1.0	2.0
71-100'	0-24"	12'	1.5	2.0
	25-48"	9'	1.0	2.0
	49"+	9'	1.0	2.0
101-200'	0-24"	12'	1.5	2.0
	25-48"	12'	1.5	2.0
	49"+	12'	1.0	2.0
201'+	0-48"	12'	1.5	2.0
	49"+	12'	1.5	2.0

Yield: Approximately 500-800 lineal feet per 23# unit of INSTA-STIK (depending on bead size). Rates are for all monolithic and steel deck applications.
*Application rate in lineal feet per square foot of insulation board to be attached using a ¼"-1" minimum diameter bead.

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INSTA-FOAM

INSTA-STIK PROFESSIONAL ROOFING ADHESIVE

Non-compatible Substrates:

- Coal tar pitch built-up roofs
- Graveled built-up roofs
- Spudded built-up roofs
- Lightweight fill

Application Features Include:

- No structural deck damage caused by mechanical fasteners
- No obnoxious odor
- No noise pollution
- No building height restrictions
- No melting of polystyrene
- No puncturing of vapor retarders

Post-application Features:

- Maintains adhesion during freeze/thaw cycles
- Maximizes wind uplift resistance
- Minimizes wind penetration potential
- No fastener/steel deck corrosion
- No compressed insulation
- Prevents shifting of insulation boards in high wind conditions in loose laid and ballasted applications
- No fastener backout

Composition and Materials: INSTA-STIK Professional Roofing Adhesive is a single component, moisture-cured polyurethane adhesive. INSTA-STIK Complete is supplied in a 30 pound unit (23 pounds net chemical weight) with a 4' flexible dispensing hose and two 14" PVC dispensing wands (with coupler). A brass ball valve on the dispensing hose allows operational control for single hand application. INSTA-STIK Tank Only is supplied in a 30 pound unit (23 pounds net chemical weight) with no accessories. This is ideal for use with the Multi-Bead Applicator.

Accessories: The dispensing of INSTA-STIK can be dramatically increased using the Multi-Bead Applicator (MBA-28) and Day Pak System (DPS-4) accessory kits. The MBA-28 dispenses four equidistant beads of INSTA-STIK within a 4' wide path. Each MBA-28 is supplied with two Day Pak Systems. The DPS-4 is the dispensing tubing for the MBA-28. The DPS-4 must be replaced daily or whenever cured INSTA-STIK blocks or restricts flow within the tubing. The use of the MBA-28 is recommended on roof decks with few penetrations and obstructions.

Limitations:

- INSTA-STIK is not recommended for use on insulation boards larger than 4' x 4' square.
- INSTA-STIK is not recommended for residential roofing applications.
- INSTA-STIK is not recommended for application when surface or ambient temperatures are below 40°F (4.4°C) or above 110°F (43.3°C).
- INSTA-STIK is not recommended for use during inclement weather.
- INSTA-STIK is not recommended for use on wet surfaces.
- INSTA-STIK is not recommended for use on gravel, excessively dirty, or grease laden surfaces.
- INSTA-STIK is not recommended for use on coal tar pitch, spudded, and graveled built-up roofs.
- INSTA-STIK is not recommended for use if the product has expired.
- INSTA-STIK is not recommended for use on roof decks greater than 2:12 pitch.
- INSTA-STIK is not recommended for use on any deck that shows signs of deterioration or loss of structural integrity.
- INSTA-STIK is not recommended for use in attaching base sheets and membranes.

4. TECHNICAL DATA

Applicable Standards: INSTA-STIK Professional Roofing Adhesive meets the requirements of Factory Mutual Class 1-90 fire and wind uplift resistance tests for monolithic deck applications.

Consult with Roofing Technical Services for detailed information on Factory Mutual Class I-180 rated roofing systems.

INSTA-STIK Professional Roofing Adhesive meets the requirements of Underwriters Laboratories, Inc., (UL) 1897 wind uplift resistance tests for steel deck applications. If INSTA-STIK is used in a UL Class A rated roofing system, the roofing system will maintain its UL Class A rating.

INSTA-STIK Professional Roofing Adhesive meets the requirements of Metropolitan Dade County Florida windstorm and fire classifications for monolithic deck applications.

Typical Handling Characteristics
Tack Free Time (Minutes)

Temperature	Relative Humidity	Time
40°F	50%	35
75°F	50%	15
120°F	25%	13

Typical Physical Properties

Tensile Adhesion (psi) (Concrete/Concrete)	259
Lap Shear Adhesion (psi)	
Carbon Steel/Carbon Steel	342
Galvanized Steel/Galvanized Steel	328
Peel Adhesion to Concrete (lbs)	18

Samples cured for 7 days at room temperature (75°F 50% RH).

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INSTA-STIK PROFESSIONAL ROOFING ADHESIVE

5. INSTALLATION

INSTA-STIK is packaged in a single container that should be stored between 45°F (7.2°C) and 75°F (23.9°C). At these temperatures, the shelf life is eight months from the date of manufacture. The minimum product temperature at the time of application should be 70°F (21.1°C). The minimum ambient and surface temperatures should be 40°F (4.4°C).

Safety: Before dispensing INSTA-STIK, the applicator must observe the following precautions: wear protective clothing, work gloves, and wear protective eyewear. A Self-Contained Breathing Apparatus (SCBA) is required in areas of insufficient ventilation only.

Surface Preparation: Lightweight and Structural Concrete, Plywood, and Cementitious Wood Fiber: These surfaces must be free of any debris, dirt, grease, oil, diesel fuel, and standing water before applying INSTA-STIK.

Recover Bituminous Asphalt (BUR): The non-graveled BUR surface must be free of debris, dirt, grease, oil, diesel fuel, and standing water SPUDDING IS NOT RECOMMENDED. An Insta-Foam Products lab pull test is required to determine INSTA-STIK/BUR compatibility. Contact the Roofing Technical Specialist at Insta-Foam Products, Inc., for details.

Steel: The upper flange of the steel deck must be free of debris, dirt, grease, oil, diesel fuel, and standing water. On new steel, the residual oil shop coating must be removed using acetone, naphtha, or comparable cleaner. The upper flange must be free of any cleaner residue before applying INSTA-STIK.

Insulation: Review the roofing insulation plan. The roof insulation boards to be attached must be no larger than four foot square (4' x 4') as dictated by good roofing practices. In multiple layers of insulation, the staggered joint method must be used to eliminate thermal breaks.

Product and Equipment Installation: INSTA-STIK Professional Roofing Adhesive should be mixed prior to use by firmly holding the container on its side and agitating the contents using a side to side motion for at least one minute. Attach the 4' dispensing hose swivel end to the cylinder valve. Tighten the connection using a 9/16" open end wrench being careful not to over-tighten. Verify that the on/off valve on the dispensing hose is closed. The handle should be perpendicular to the valve. Attach the dispensing wand kit to the brass valve by screwing in until it is handtight. The dispensing wand kit is recommended for roof decks with many penetrations or confined areas.

The Multi-Bead Applicator (MBA-28) is recommended for roof decks with open areas. Assemble the MBA-28 and attach a Day Pak System (DPS-4). Connect the 4' dispensing hose supplied with the MBA kit to the valve on the handle of the MBA. To connect the MBA-28 to the system, connect the swivel end of the MBA dispensing hose to the cylinder valve of an INSTA-STIK unit. Tighten all connections.

Important: To prevent pressure loss, use INSTA-STIK in an upright position.

Application Rate: Dispense one lineal foot of ¾"-1" diameter bead of INSTA-STIK for every square foot of insulation board to be attached. A ¾" diameter backer rod is supplied with each unit as a guide for proper bead size. The application rate may vary with roof system configuration.

Note: An increased amount of INSTA-STIK may be required at the perimeter band of the roof, depending on building and parapet wall heights. Refer to the Application Rate Chart.

Important: When applying INSTA-STIK, place the insulation boards onto the INSTA-STIK beads within 3 minutes and walk on the boards immediately to spread the beads for maximum contact. Continue to walk on the insulation boards every 5-7 minutes until the insulation is firmly attached.

Monolithic Deck Applications: Use a parapet wall or gutter as a straight edge guide when dispensing the first bead of INSTA-STIK. Turn on the cylinder valve, slowly open the brass valve and dispense parallel ¾"-1" beads. Under the normal application rate, place the first bead 3" inside the outside edge of the insulation board to be attached. Apply three additional parallel beads approximately 14" apart so that the fourth bead is 3" inside the opposite edge of the insulation board. The result is four equidistant parallel beads (sixteen lineal feet) for each four foot square (4' x 4') insulation board.

When using the Multi-Bead Applicator, open the valves to dispense four beads of INSTA-STIK, pulling the MBA as you dispense the ¾"-1" beads. Place the insulation boards onto the INSTA-STIK beads within 3 minutes and walk on the boards spreading the INSTA-STIK for maximum contact. Additional walkings are required every 5-7 minutes until firmly attached (usually 20-45 minutes).

Steel Deck Applications: With the edge of the insulation board centered over an upper flange under normal application rate, apply a ¾"-1" bead of INSTA-STIK on the first full upper flange nearest the edge of the insulation board. Continue to apply ¾"-1" beads on every other upper flange. Place the insulation board onto the beads within 3 minutes and walk on the boards spreading the INSTA-STIK for maximum contact. Additional walkings are required every 5-7 minutes until firmly attached (usually 20-45 minutes).

With the Multi-Bead Applicator, place the wheels of the MBA between the flanges centered with the insulation board. Adjust the DPS-4 so that the tubes are centered on the top of the upper flanges. The outside tubes must be centered over the nearest full upper flange nearest the edge of the insulation. Adjust the other three tubes to be centered on every other upper flange. Apply the INSTA-STIK in ¾"-1" diameter beads by opening the valve. Place the insulation board onto the beads within 3 minutes and walk on the boards spreading the INSTA-STIK for maximum contact. Additional walkings are required every 5-7 minutes until firmly attached (usually 20-45 minutes).

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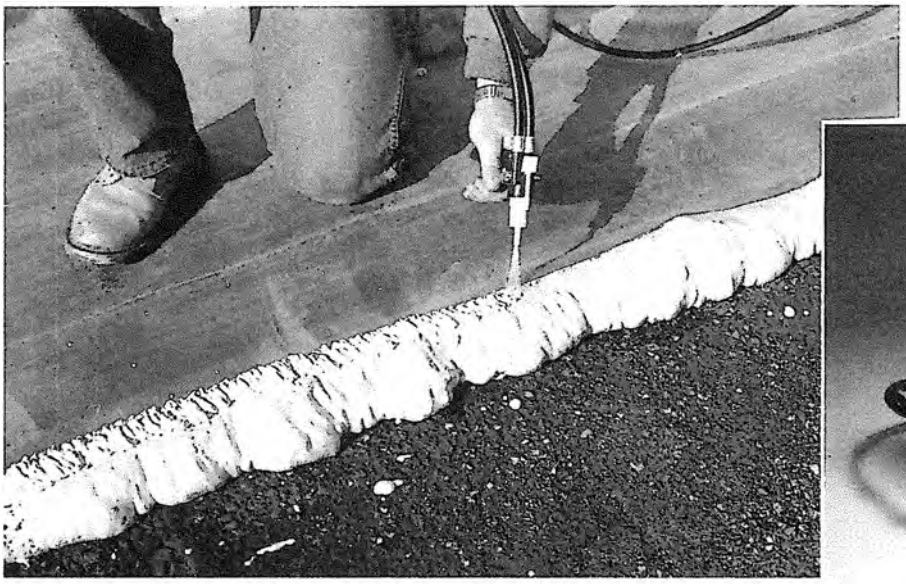
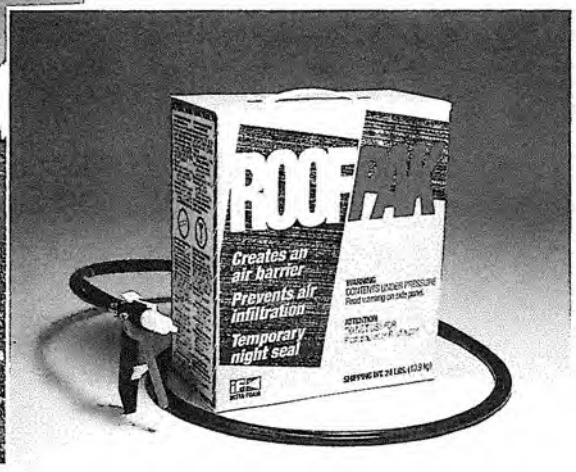
INSTA-FOAM

ROOF PAK POLYURETHANE SYSTEM





ROOF PAK, a two component polyurethane foam kit, is used to temporarily seal the edge of single ply membranes at the end of the day or when inclement weather is imminent. The procedure is quick and easy to apply, resulting in labor savings. It produces a water resistant seal. Removal is easy with a spud bar or shovel when the job resumes.

The primary purpose for using ROOF PAK for night sealing is to protect costly insulation systems against moisture and water damage. The kit is portable, which makes it very convenient to have on a roof. It is the ideal product for quick tie-off protection.

Using ROOF PAK for a temporary night seal eliminates:
- the need for transporting a kettle to the job
- the loss of time and fuel in preheating a kettle
- the dangers associated with transporting hot asphalt
- the need for making a night seal with plastic cement and lumber

Another use for ROOF PAK is to create an air barrier to prevent roof deck air infiltration by sealing roof deck openings and penetrations. ROOF PAK is effective in air leakage control because of the following features:
- excellent adhesion to most roof surfaces
- maximum expansion qualities in filling cracks, voids and large openings

CEMENTITIOUS WOOD FIBER, ORIENTED STRAND BOARD, PLYWOOD, AND PRECAST CONCRETE DECKS
- Panel joints
- Mechanical fastener penetrations*

Use ROOF PAK to create an air barrier on:

MONOLITHIC DECKS
- Drains
- HVAC units
- Wood nailers
- Roof perimeter edging

STEEL DECKS
- Steel decking end and side lap joints
- Mechanical fastener penetrations*

FSI ALSO STOCKS 2 PART 180 FROTH PAK

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TWIN LOC-NAIL®

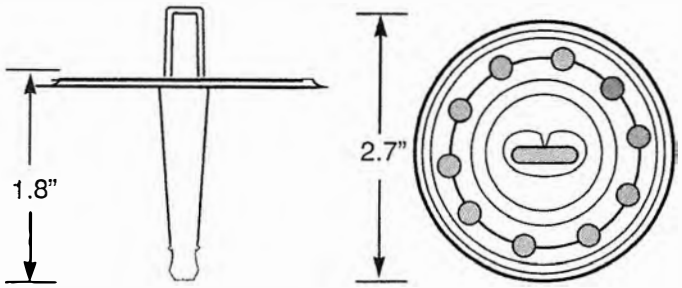
RECOVERY BOARD OR BASE SHEET TO WOOD FIBER

SPECIFICATIONS

COMPOSITION

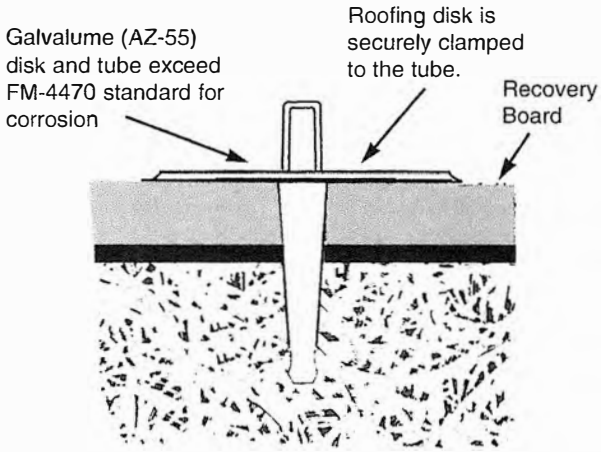
Factory preassembled components consisting of:

Tube: Precision formed from Galvalume (AZ-55) coated steel to prevent corrosion. The 1.8" long tube is shaped to easily penetrate fibrous decking and existing membranes.
Disk: Precision formed from Galvalume (AZ-55) coated steel to prevent corrosion. Securely clamped to the tube, 2.7" diameter, rib reinforced to resist cupping.
Locking Staple: Precision formed from .080" diameter high tensile steel. Coated to prevent corrosion. Factory preinserted into tube.



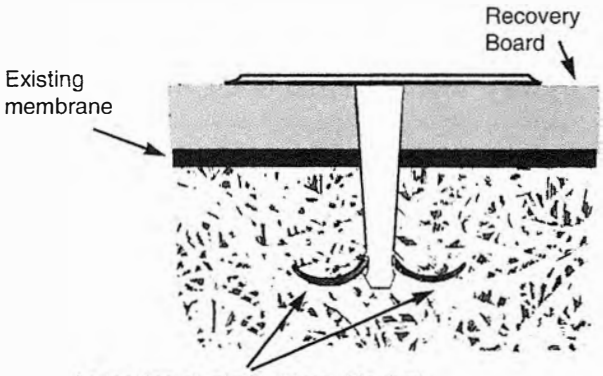
TECHNICAL DATA

Wind Uplift: Pull out testing is recommended to establish withdrawal resistance performance. Uplift resistance will vary depending on the density and integrity of the substrate.
Corrosion: Components are made from Galvalume (AZ-55) coated steel to prevent corrosion.
Nailing Pattern: Consult deck and membrane manufacturer's requirements for recommended patterns in normal, exposed and hurricane areas.



INSTALLATION

Equipment: Use ES Products' Twin Loc-Nail Driver. The specially designed Driver assures consistent speedy application. ES Nail Pouch holds up to 10 times the quantity of fasteners accomodated by standard nailing aprons.
Method: Using ES Products' Twin Loc-Nail Driver, two impacts are required. Place fastener on face of driver positioning exposed staple into slot in driver face. Drive fastener with vertical motion into roofdeck with first impact seating cap flush with roofdeck. With second impact drive the locking staple thru the Tube/Disk unit into the deck until the top of the staple is flush with the cap (see illustration).
Operation: When locking staple is driven, it's dual wire legs diverge anchoring the fastener in place (see illustration). Uplift resistance will vary depending on the density and integrity of the substrate.
Maintenance: No maintenance is required after installation.
Availability: Twin Loc-Nail is a patented product manufactured only by ES Products, Inc., distributed by leading roofing material and equipment wholesalers throughout the United States. For details, information, and pricing, please contact ES Products.



As locking staple is driven, it's dual wire legs diverge anchoring the fastener in place.

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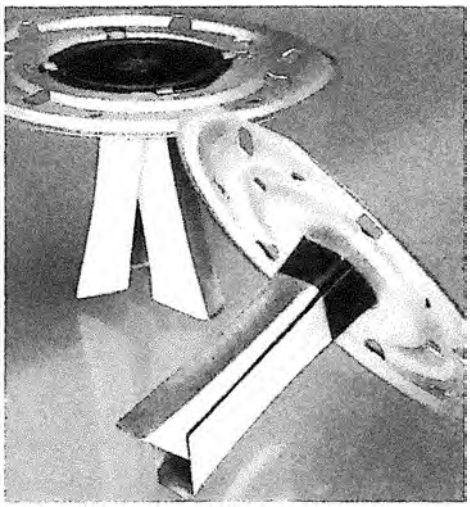
FM-90 FASTENER

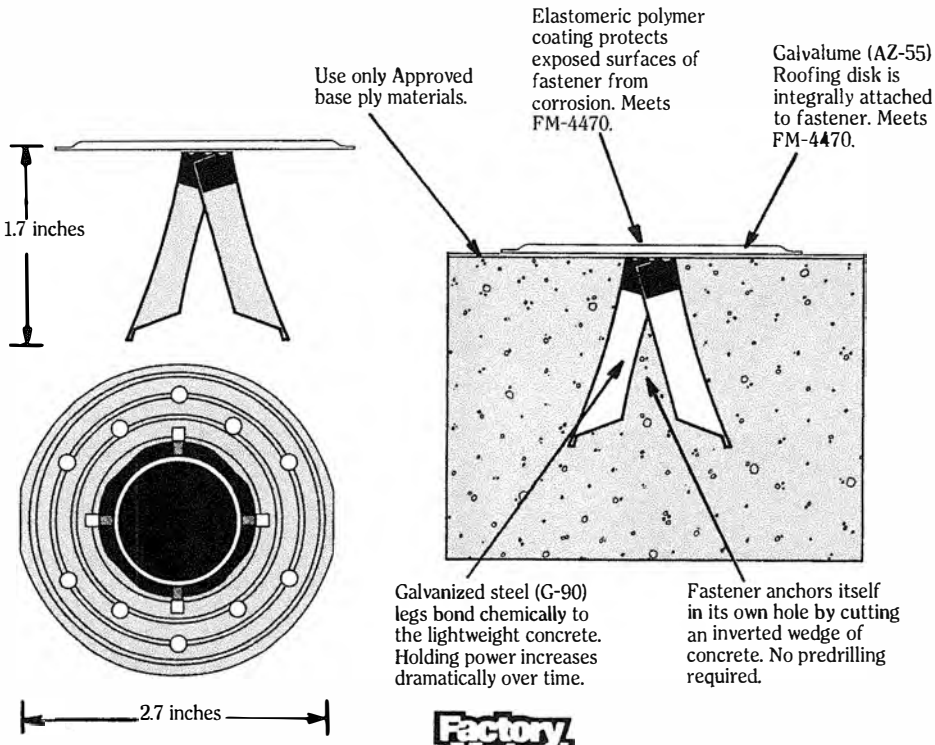
ES PRODUCTS



The FM-90 combines our standard length base ply fastener and disk into one fully integrated, self locking fastener for securing base ply to flat or sloped lightweight insulating concrete roof decks.

FM-90 is designed for use with lightweight concrete decking of minimum 2" thickness conforming to current industry standards for compressive strength and dry density. Suitable for all types of base plies. Not recommended for structural concrete, or cement fiber decking.

Fully Factory Mutual Approved for both Wind Uplift and Corrosion.



COMPOSITION:

Fastener: Precision formed from corrosion resistant Galvanized (G-90) steel. Exposed surfaces are further protected with a special elastomeric polymer coating to prevent corrosion. Rectangular dual gripping legs, 1.7" long.

Disk: Integrally locked to fastener. Precision formed from Galvalume (AZ-55) coated steel to prevent corrosion. Rib reinforced cap, 2.7" diameter.

TECHNICAL DATA:

Wind Uplift: Meets or exceeds Factory Mutual requirements for Wind Uplift (I-90). Withdrawal resistance will vary depending on the density, compressive strength, and moisture content of the roof deck. Complete test reports available upon request.

Corrosion: Meets or exceeds Factory Mutual requirements for corrosion. Complete test report available upon request.

Nailing Pattern: Consult Factory Mutual, membrane, and deck manufacturer's requirements for recommended patterns in normal, exposed, and hurricane areas..

Roof Deck: Prior to installation of FM-90 fasteners, the lightweight concrete deck must be surface dry, reasonably smooth, and must support foot traffic without incurring damage.

INSTALLATION:

Equipment: The ES Magnetic Driver and oversized Nail Pouch facilitate fastener installation. The Magnetic Driver assures consistent speedy application; The Nail Pouch holds up to 10 times the quantity of fasteners accommodated by a standard nailing apron.

Method: Drive FM-90 as an ordinary nail. DO NOT TOE. Seat cap flush with roofing surface (see illustration).

Operation: As FM-90 is driven, dual legs diverge and cut a plug of deck material which wedges and anchors the FM-90 in its own hole. No predrilling required.

Maintenance: No maintenance is required after installation.

Availability: FM-90 is a proprietary product manufactured only by ES Products, Inc., distributed by leading roofing material and equipment wholesalers throughout the United States. For details and information please contact ES Products, Inc.

Packaging: 1,000 FM-90 fasteners per carton. Shrink wrapped and palletized. Gross weight: 42 lbs.

Warranty: ES Products, Inc. warrants its products for one year from date of sale against defective workmanship and material, and its liability therefore shall be limited to replacing defective products reported defective during the warranty period. ES Products is not responsible for any failure attributed to improper use or installation in any manner inconsistent with the manufacturer's specifications. THIS WARRANTY IS IN LEIU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, ALL OF WHICH ARE EXPRESSLY DISCLAIMED INCLUDING ANY WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR PARTICULAR USE. This warranty provides specific legal rights and remedies which may vary from state to state.

PROUDLY MADE IN THE U.S.A.

Factory Mutual System Approved

METRO-DADE

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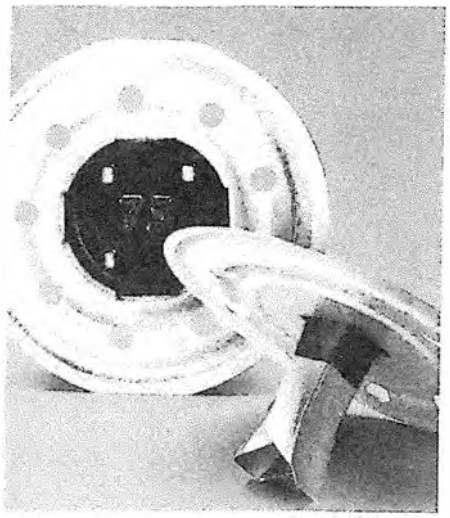
FM-75 FASTENER

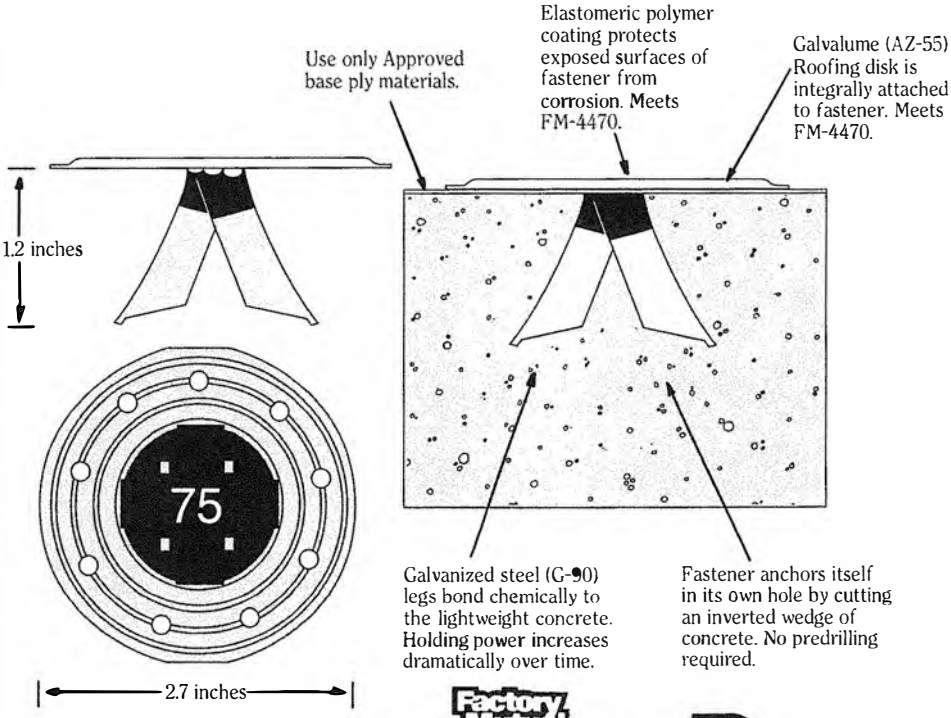
ES PRODUCTS



The FM-75 combines our 1.2" base ply fastener and Galvalume disk into one fully integrated, self locking fastener for securing base ply to flat or sloped lightweight insulating concrete roof decks.

FM-75 is designed for use with NVS concrete decking of minimum 1" thickness conforming to current industry standards for compressive strength and dry density. Suitable for fastening all types of base plies. Not recommended for structural concrete or cement fiber decking.

Factory Mutual and Metro-Dade County Approved.



COMPOSITION:

Fastener: Precision formed from corrosion resistant Galvanized (G-90) steel. Exposed surfaces are further protected with a special elastomeric polymer coating to prevent corrosion. Rectangular dual gripping legs, 1.2" long.

Disk: Integrally locked to fastener. Precision formed from corrosion resistant Galvalume (AZ-55) steel to prevent corrosion. Rib reinforced cap, 2.7" diameter.

TECHNICAL DATA:

Wind Uplift: Meets or exceeds Factory Mutual requirements for Wind Uplift (I-90). Withdrawal resistance will vary depending on the density, compressive strength, and moisture content of the roof deck. Complete test reports available upon request.

Corrosion: Meets or exceeds Factory Mutual requirements for corrosion. Complete test report available upon request.

Nailing Pattern: Consult Factory Mutual, membrane, and deck manufacturer's requirements for recommended patterns in normal, exposed, and hurricane areas..

Roof Deck: Prior to installation of FM-75 fasteners, the lightweight concrete deck must be surface dry, reasonably smooth, and must support foot traffic without incurring damage.

INSTALLATION:

Equipment: The ES Magnetic Driver and oversized Nail Pouch facilitate fastener installation. The Magnetic Driver assures consistent speedy application; The Nail Pouch holds up to 10 times the quantity of fasteners accommodated by a standard nailing apron.

Method: Drive FM-75 as an ordinary nail. DO NOT TOE. Seat cap flush with roofing surface (see illustration).

Operation: As FM-75 is driven, dual legs diverge and cut a plug of deck material which wedges and anchors the FM-75 in its own hole. No predrilling required.

Maintenance: No maintenance is required after installation.

Availability: FM-75 is a patented product manufactured only by ES Products, Inc., distributed by leading roofing material and equipment wholesalers throughout the United States. For details and information please contact ES Products, Inc.

Packaging: 1,000 FM-75 fasteners per carton. Shrink wrapped and palletized. Gross weight: 34 lbs.

Warranty: ES Products, Inc. warrants its products for one year from date of sale against defective workmanship and material, and its liability therefore shall be limited to replacing defective products reported defective during the warranty period. ES Products is not responsible for any failure attributed to improper use or installation in any manner inconsistent with the manufacturer's specifications. THIS WARRANTY IS IN LEIU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, ALL OF WHICH ARE EXPRESSLY DISCLAIMED INCLUDING ANY WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR PARTICULAR USE. This warranty provides specific legal rights and remedies which may vary from state to state.

PROUDLY MADE IN THE U.S.A.

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METRO-DADE

FSI specializes in solving problems

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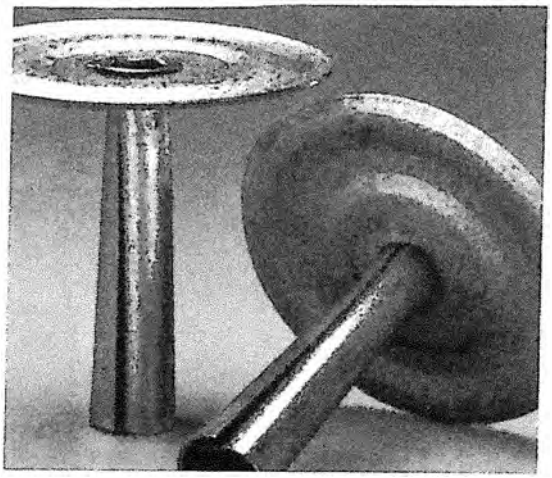
NAIL-TITE TYPE A

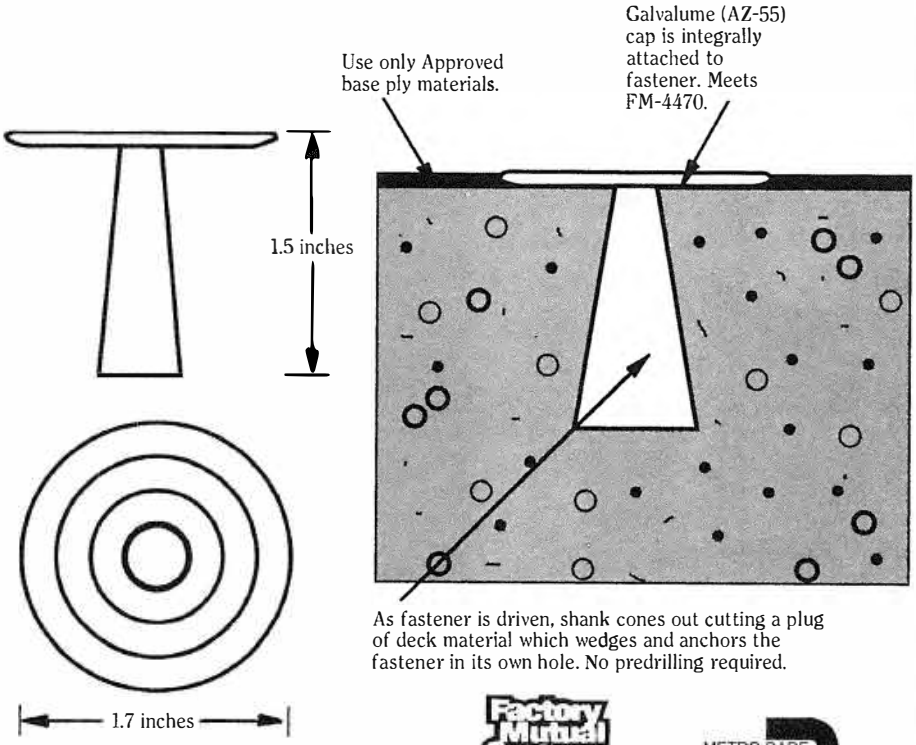
ES PRODUCTS



Self locking one piece fastener for securing base ply to flat or sloped poured gypsum concrete roof decks.

NAIL-TITE Type A is designed for use with gypsum decking of minimum 2" thickness conforming to compressive strength and dry density standards currently recommended by leading gypsum suppliers. Suitable for fastening all types of base plies. Not recommended for shingle application, structural concrete or cement fiber decking.

Factory Mutual and Metro-Dade County Approved.



As fastener is driven, shank cones out cutting a plug of deck material which wedges and anchors the fastener in its own hole. No predrilling required.

COMPOSITION:

Shank: 1-1/2" tapered cone precision formed from corrosion resistant galvanized (G-90) steel.

Cap: 1.7" round cap formed from corrosion resistant Galvalume (AZ-55) steel, reinforced to resist cupping during driving.

Assembly: Shank securely swedged to cap forming rigid one piece fastener.

TECHNICAL DATA:

Wind Uplift: Meets or exceeds Factory Mutual requirements for Wind uplift (I-60 and I-90).

Corrosion: Meets or exceeds Factory Mutual requirements for corrosion.

Nailing Pattern: Consult Factory Mutual, membrane, and deck manufacturer's requirements for recommended patterns in normal, exposed, and hurricane areas.

Roof Deck: Prior to installation of NAIL-TITE Type A fasteners, the Gypsum deck must be surface dry, reasonably smooth, and must support foot traffic without incurring damage. Fastener withdrawal resistance will vary depending on the density, compressive strength, and moisture content of the roof deck.

INSTALLATION:

Equipment: The ES Magnetic Driver and oversized Nail Pouch facilitate fastener installation. The Magnetic Driver assures consistent speedy application; The Nail Pouch holds up to 10 times the quantity of fasteners accommodated by a standard nailing apron.

Method: Drive as an ordinary nail. DO NOT TOE. Seat cap flush with surface (see illustration).

Operation: As NAIL-TITE Type A is driven, shank cones out and cuts a plug of deck material which wedges and anchors the NAIL-TITE in its own hole. No predrilling required.

Maintenance: No maintenance is required after installation.

Availability: NAIL-TITE Type A is a patented product manufactured only by ES Products, Inc., distributed by leading roofing material and equipment wholesalers throughout the United States. For details and information please contact ES Products, Inc.

Packaging: 3,000 NAIL-TITE Type A per carton. Shrink wrapped and palletized. Gross weight: 46 lbs.

Warranty: ES Products, Inc. warrants its products for one year from date of sale against defective workmanship and material, and its liability therefore shall be limited to replacing defective products reported defective during the warranty period. ES Products is not responsible for any failure attributed to improper use or installation in any manner inconsistent with the manufacturer's specifications. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, ALL OF WHICH ARE EXPRESSLY DISCLAIMED INCLUDING ANY WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR PARTICULAR USE. This warranty provides specific legal rights and remedies which may vary from state to state.

PROUDLY MADE IN THE U.S.A.

Factory Mutual System Approved

METRO-DADE

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
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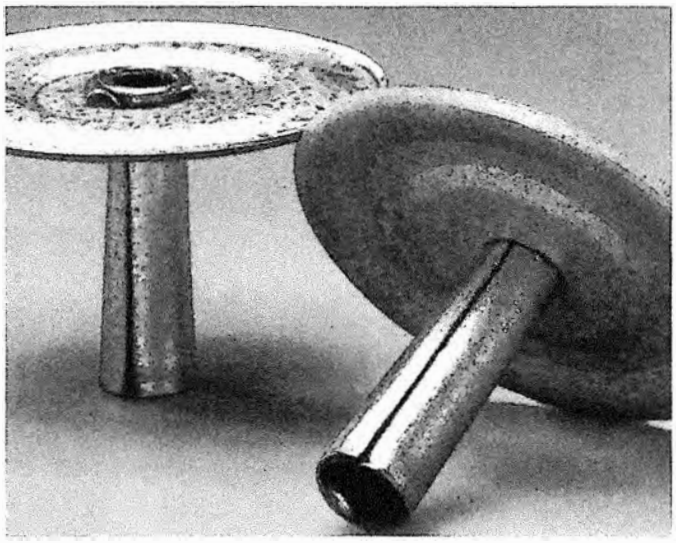
NAIL-TITE TYPE R

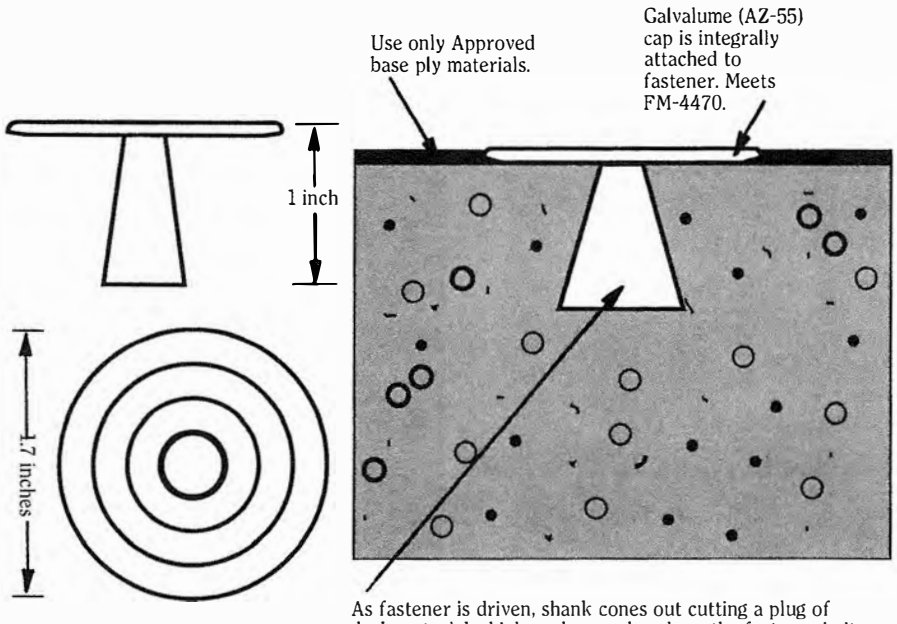
ES PRODUCTS



Self locking one piece fastener for securing base ply when re-roofing over flat or sloped poured gypsum concrete roof decks.

NAIL-TITE Type R is designed for the re-roofing of structurally sound, tough, aged gypsum roof decks. Suitable for fastening all types of base plies. Not recommended for shingle application, structural concrete or cement fiber decking.

Factory Mutual and Metro-Dade County Approved.



As fastener is driven, shank cones out cutting a plug of deck material which wedges and anchors the fastener in its own hole. No predrilling required.

COMPOSITION:

Shank: 1" tapered cone precision formed from corrosion resistant galvanized (G-90) steel.

Cap: 1.7" round cap formed from corrosion resistant Galvalume (AZ-55) steel, reinforced to resist cupping during driving.

Assembly: Shank securely swedged to cap forming rigid one piece fastener.

TECHNICAL DATA:

Wind Uplift: Meets or exceeds Factory Mutual requirements for Wind Uplift (I-60 and I-90).

Corrosion: Meets or exceeds Factory Mutual requirements for corrosion.

Nailing Pattern: Consult Factory Mutual, membrane, and deck manufacturer's requirements for recommended patterns in normal, exposed, and hurricane areas.

Roof Deck: Prior to installation of NAIL-TITE Type R fasteners, the Gypsum deck must be surface dry, reasonably smooth, and must support foot traffic without incurring damage. Fastener withdrawal resistance will vary depending on the density, compressive strength, and moisture content of the roof deck.

INSTALLATION:

Equipment: The ES Magnetic Driver and oversized Nail Pouch facilitate fastener installation. The Magnetic Driver assures consistent speedy application; The Nail Pouch holds up to 10 times the quantity of fasteners accommodated by a standard nailing apron.

Method: Drive as an ordinary nail. DO NOT TOE. Seat cap flush with surface (see illustration).

Operation: As NAIL-TITE Type R is driven, shank cones out and cuts a plug of deck material which wedges and anchors the NAIL-TITE in its own hole. No predrilling required.

Maintenance: No maintenance is required after installation.

Availability: NAIL-TITE Type R is a patented product manufactured only by ES Products, Inc., distributed by leading roofing material and equipment wholesalers throughout the United States. For details and information please contact ES Products, Inc.

Packaging: 3,000 NAIL-TITE Type R per carton. Shrink wrapped and palletized. Gross weight: 40 lbs.

Warranty: ES Products, Inc. warrants its products for one year from date of sale against defective workmanship and material, and its liability therefore shall be limited to replacing defective products reported defective during the warranty period. ES Products is not responsible for any failure attributed to improper use or installation in any manner inconsistent with the manufacturer's specifications. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, ALL OF WHICH ARE EXPRESSLY DISCLAIMED INCLUDING ANY WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR PARTICULAR USE. This warranty provides specific legal rights and remedies which may vary from state to state.

PROUDLY MADE IN THE U.S.A.

Factory Mutual System Approved

METRO-DADE

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MAGNETIC DRIVER

ES PRODUCTS

Our Lightweight Insulating Concrete and Gypsum base ply fasteners must be driven perpendicular to the roofing surface. The Magnetic Driver assures straight positive fastener installation.

With the pivoting motion required to swing a hand hammer, you are never certain that the fastener will be driven straight. Loss of withdrawal resistance may result from improper fastener installation.

The vertical driving action of the Magnetic Driver assures consistent application of fasteners with less worker fatique. Use of the Magnetic Driver allows the roofer to install fasteners from a standing position; getting up off the hands and knees speeds production and limits back strain.

Use of the accompanying oversized Nail Pouch means fasteners are always at hand.

RUGGED, SIMPLE, AND EFFECTIVE

The ES Products' Magnetic Driver is a durable tool designed and built to withstand the abuses of roofing. Features include:

✔ Heavy-duty 3/4" steel driving shaft with foam covered grip.

✔ Large 3" diameter, wear resistant polyethylene driving head assures that fasteners are driven flush and prevents overdriving which damages the base sheet.

✔ Super strength Alnico-5 gripping magnet positively holds fastener and disk unit.

THE DRIVING FORCE

Choosing the right fastener for your roofing application is only half the job. If the fastener isn't installed correctly, you might as well have left it in the box.

When driving base sheet fasteners for Lightweight Insulating Concrete and Gypsum, the best results are achieved when the fastener is installed with a single impact. The multiple blows required when using a hand hammer may be off center- crookedly applied or bent fasteners being the result. Worse yet, with repeated impact and the associated shock waves, the Lightweight Insulating Concrete or Gypsum roofdeck can break up such that the roofdeck will no longer adequately retain fasteners.

With the ES Magnetic Driver, you can apply fasteners with the speed and force required to penetrate the roofdeck without damage.

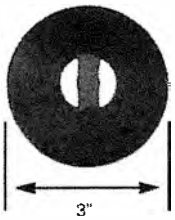
THE MODIFIED MAGNETIC DRIVER

Our standard Magnetic Drivers have been used successfully to apply our Lightweight Insulating Concrete fasteners for years. To accomodate fasteners with a smaller impact area, such as our NAILTITE TYPE A, NAILTITE TYPE R, and DO-ALL LOC NAIL, we now offer our Drivers with a stainless steel face plate. By adding the .125" Type 302 stainless plate, the magnet is protected from direct impact. Stainless steel, being non-magnetic, allows magnetism to pass through it without compromising the magnet's ability to hold onto the fastener.

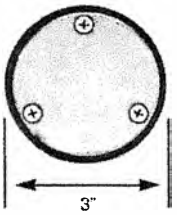
The ES Products Modified Magnetic Driver is the perfect tool to drive our fasteners into Lightweight Insulating Concrete and Gypsum.

ORDER TODAY

Speed up fastening. Save labor. Walk through your next roofing job. Order the ES Magnetic Driver today from an authorized ES Products Distributor, or call ES Procucts.



3" diameter oversized driving head with 1" diameter super strength magnet drives fastener flush.



Optional .125 in. thick stainless steel face plate prolongs life of tool.

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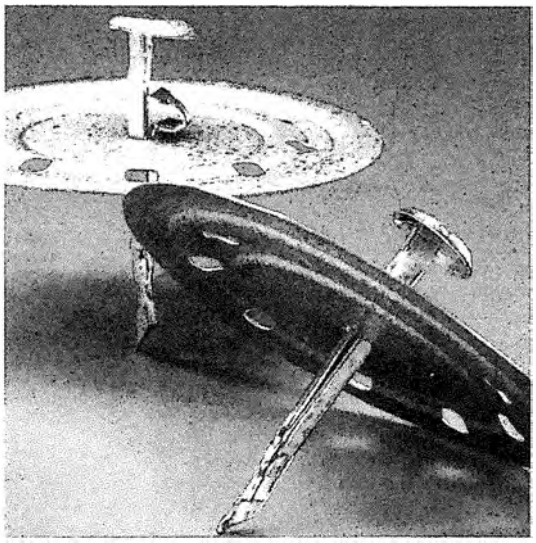
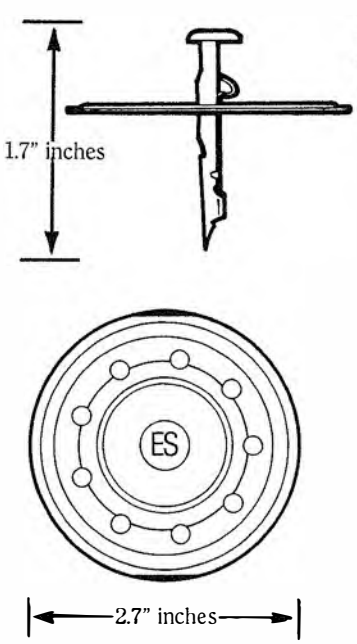
INSULDECK LOC-NAIL

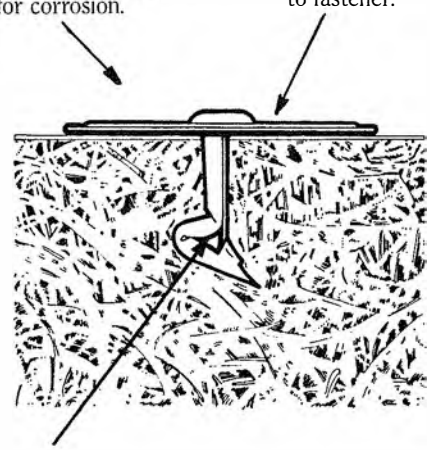
ES PRODUCTS



The Insuldeck Loc-Nail, a self-locking fastener that is factory preassembled to a 2.7" stress plate, is used for securing base ply to flat or sloped structural wood fiber and structural cement fiber roof decks.

Insuldeck Loc-Nail is designed for use with fibrous decking such as Tectum, Fibroplank, Permadeck, or equal. Suitable for all types of base plies.





COMPOSITION

Shank: Precision formed from Galvalume (AZ-55) coated steel to prevent corrosion. The 1.7" long dual shank with fine angular point is tough enough to penetrate all Approved fiber decks. The shank is self-clinching when driven.

Disk: Precision formed from Galvalume (AZ-55) coated steel to prevent corrosion. Securely clamped to shank, 2.7" diameter, rib reinforced to resist cupping when driven.

TECHNICAL DATA

Wind Uplift: Meets or exceeds Factory Mutual requirements for Wind Uplift (I-60). Withdrawal resistance will vary depending on the density and integrity of substrate.

Corrosion: Meets or exceeds Factory Mutual requirements for corrosion.

Nailing Pattern: Consult deck and membrane manufacturer's requirements for recommended patterns in normal, exposed, and hurricane areas.

INSTALLATION

Equipment: Use ordinary roofer's hammer or the ES Insuldeck Driver. The specially designed Driver assures consistent speedy application. The handy, specially designed, ES Nail Pouch holds up to 10 times the quantity of fasteners accommodated by a standard nailing apron.

Method: ES Insuldeck Driver is strongly recommended. Place fastener on face of driver. Driver self-centers fastener and holds fastener perpendicular to face. Drive fastener with vertical motion into roofdeck. Using roofer's hammer, hold fastener between fingers with cap parallel to roofdeck. DO NOT TOE. Tap lightly through base sheet to lodge shank in deck. Hit firmly until cap is seated flush with roofing surface. (see illustration)

Operation: When cupped head is driven flush against rigid cap, an automatic knee bend effect takes place in the shank of the fastener (see illustration) locking fastener in place. Uplift resistance may vary depending on the density of the substrate.

Maintenance: No maintenance is required after installation.

Availability: Insuldeck Loc-Nail is a patented product manufactured only by ES Products, Inc., distributed by leading roofing material and equipment wholesalers throughout the United States. For details, information, and pricing, please contact ES Products.

Packaging: 1,000 assembled Insuldeck Loc-Nails per carton. Shrink wrapped and palletized. Gross weight-28 lbs.

Warranty: ES Products, Inc. warrants its products from one year from the date of sale against defective workmanship and material, and its liability therefore shall be limited to replacing defective products reported defective during the warranty period. ES Products is not responsible for any failure attributable to improper use or installation in any manner inconsistent with manufacturer's specifications. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, ALL OF WHICH ARE EXPRESSLY DISCLAIMED INCLUDING ANY WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR PARTICULAR USE. This warranty provides specific legal rights and remedies which may vary from state to state.

PROUDLY MADE IN THE U.S.A.

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Same day color match - In house painting

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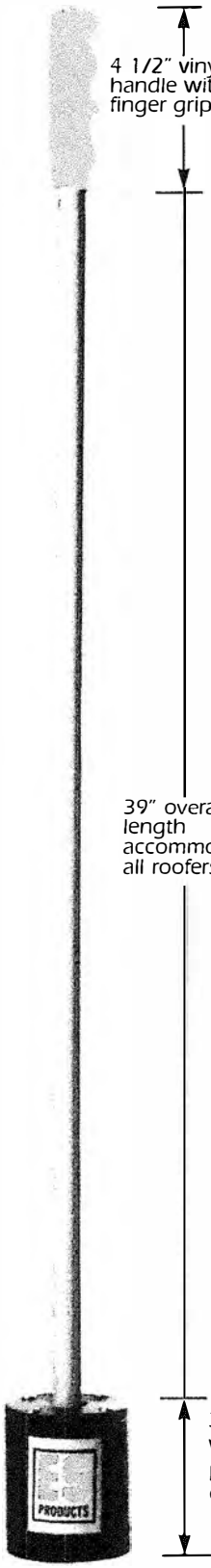
INSULDECK DRIVER

ES PRODUCTS



Insuldeck Loc-Nail base ply fasteners must be driven perpendicular to the roofing surface. The Insuldeck Driver assures straight positive fastener installation.

With the pivoting motion required to swing a hand hammer, you are never certain that the fastener will be driven straight. Loss of withdrawal resistance may result from improper fastener installation.

The vertical driving action of the Insuldeck Driver assures consistent application of fasteners with less worker fatigue and prevents overdriving. Use of the Insuldeck Driver allows the roofer to install fasteners from a standing position.Getting up off the hands and knees speeds production and limits back strain.

Use of the accompanying oversized nail pouch means fasteners are always at hand.

RUGGED, SIMPLE AND EFFECTIVE

The ES Products' Insuldeck Driver is a durable tool designed with only two moving components and built to withstand the abuses of roofing. Features include:

- Heavy-duty 3/4" steel driving shaft which incorporates a 4 1/2" vinyl handle with finger grips.
- Large 3" diameter, wear resistant polyethylene driving head assures that fasteners are driven flush and prevents overdriving which damages the base sheet.
- Steel tube in driving head prevents wear and positively guides fastener during application.
- Super strength Alnico-2 gripping magnets positively hold fastener and disk unit.

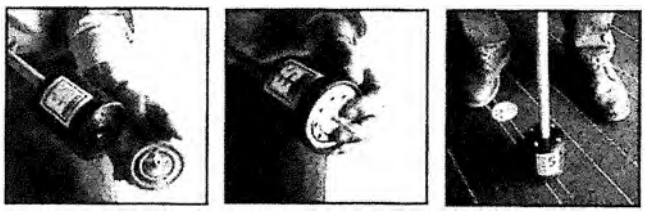
A SURE HIT

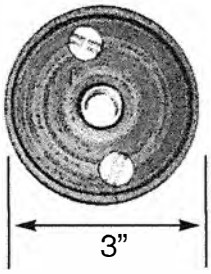
Choosing the right fastener for your roofing application is only half the job. If the fastener isn't installed correctly, you might as well have left it in the box.

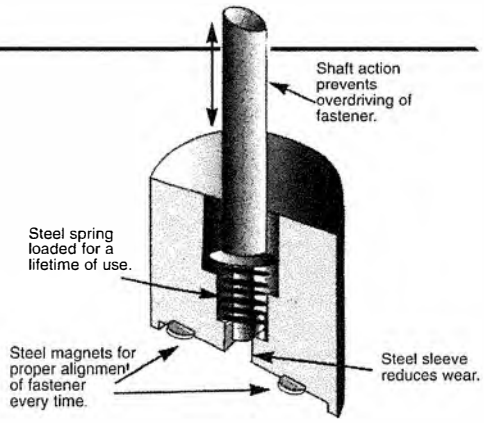
When driving Insuldeck Loc-Nail base ply fasteners into structural wood fiber roof decks (Tectum), the best results are achieved when the fastener is installed with a single impact. The multiple blows required when using a hand hammer may be off center, crookedly applied or bent fasteners being the result. With the Insuldeck Driver, you can apply fasteners with the speed and force required to penetrate the roofdeck without damage.

MAINTENANCE

To assure that the Insuldeck Driver performs as intended, a minimum of maintenance is required. By keeping the driver head clean, consistent positive application is assured.







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ES PRODUCTS

LIGHTWEIGHT INSULATING CONCRETE BASE SHEET ATTACHMENT

ES Products uses Factory Mutual's Approval Guide, FM's Loss Prevention Guide, and FM Approval Reports as the basis for discussion of wind uplift ratings.

A roof covering system over a low slope monolithic roof deck, such as lightweight insulating concrete, must utilize an appropriate membrane system including a compatible base sheet attached to the deck with an adequate number of properly spaced fasteners.

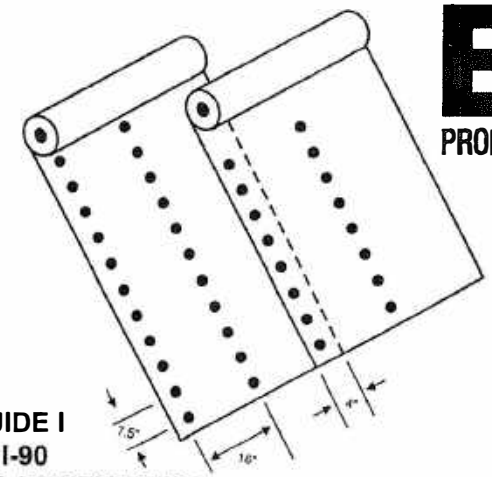
Proper fastener density is considered to be about one fastener per square foot with a fifty percent increase at the perimeter.

A fastener density of approximately one fastener per square foot can be expected to provide FM I-60 wind uplift resistance if at least forty pounds is required to withdraw single fasteners from the deck or pull the heads through the assembled base sheet.

If the withdrawal and pull through resistance is at least sixty pounds, the roof covering should provide FM I-90 wind uplift resistance.

Discs or plates are often required to insure adequate base sheet pull through resistance for FM I-90.

While some Approved fastener spacings are shown, specific spacing and density should be recommended or approved by the membrane manufacturer.



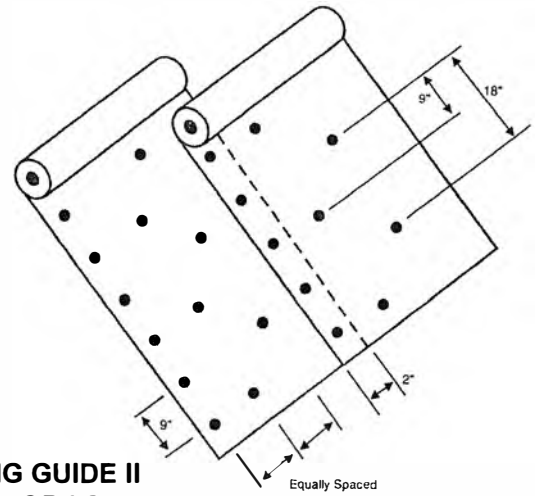
FASTENING GUIDE I
CLASS I-60 OR I-90
WINDSTORM CLASSIFICATION

An FRMC Approved base felt is secured to an FMRC Approved lightweight insulating concrete roof deck as outlined in the current edition of the FMRC Approval Guide.

The base felt is secured with FM-60 base ply fasteners and FM-30 discs, or FM-90 base ply fasteners installed 9 in. on center in the 2 in. wide base felt side laps and 18 in. on center staggered in 2 rows, equally spaced, between the base felt side laps.

When fastening with this pattern, expect to use approximately 95 fasteners per square (100 FT²).

IMPORTANT:
The illustrated fastening pattern is typical of FMRC Approved fastening patterns. Consult the membrane manufacturer for their specific construction requirements. The ES Products Magnetic Driver is the recommmended tool when installing lightweight insulating concrete base ply fasteners.



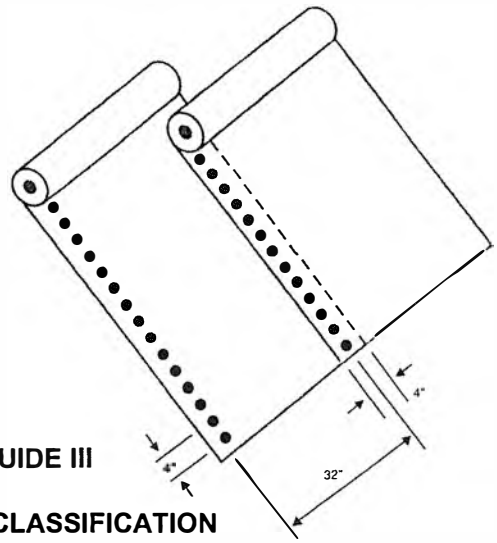
FASTENING GUIDE II
CLASS I-60 OR I-90
WINDSTORM CLASSIFICATION

An FRMC Approved base felt is secured to an FMRC Approved lightweight insulating concrete roof deck as outlined in the current edition of the FMRC Approval Guide.

The base felt is secured with FM-60 base ply fasteners and FM-30 discs, or FM-90 base ply fasteners installed 7 1/2 in. on center in the 4 in. wide base felt side laps and in rows centered between the base felt side laps.

When fastening with this pattern, expect to use approximately 120 fasteners per square (100 FT²).

IMPORTANT:
The illustrated fastening pattern is typical of FMRC Approved fastening patterns. Consult the membrane manufacturer for their specific construction requirements. The ES Products Magnetic Driver is the recommmended tool when installing lightweight insulating concrete base ply fasteners.



FASTENING GUIDE III
CLASS I-60
WINDSTORM CLASSIFICATION

An FRMC Approved base felt is secured to an FMRC Approved lightweight insulating concrete roof deck as outlined in the current edition of the FMRC Approval Guide.

The base felt is secured with FM-60 base ply fasteners installed 4 in. on center in 4 in. wide base felt side laps.

When fastening with this pattern, expect to use approximately 113 fasteners per square (100 FT²).

IMPORTANT:
The illustrated fastening pattern is typical of FMRC Approved fastening patterns. Consult the membrane manufacturer for their specific construction requirements. The ES Products Magnetic Driver is the recommmended tool when installing lightweight insulating concrete base ply fasteners.

We put the *fast* in fasteners

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BASE SHEET ATTACHMENT TO POURED GYPSUM CONCRETE

ES PRODUCTS

A roof covering system over a low slope monolithic poured gypsum concrete roofdeck must utilize an appropriate membrane that includes a compatible base sheet attached to the deck with an adequate number of properly spaced fasteners.

Nail-Tite Type A Fasteners are Approved by both Factory Mutual and Metro Dade County for fastening base sheet to poured gypsum roofdecks. **Nail-Tite Type R Fasteners are Approved by both Factory Mutual and Metro Dade County** for fastening base sheet when re-roofing over tough, aged poured gypsum roofdecks. For all applications, particularly re-roofing, a careful survey should determine whether the roofdeck is sound and that fastener withdrawal resistance is satisfactory. Application of the fasteners should not result in detrimental deformation of the fasteners nor damage to the roofdeck.

Approximately one **Nail-Tite Type A or Type R** Fastener per square foot can be expected to provide FM I-60 wind uplift resistance if at least an average of fifty-one pounds is required to withdraw single fasteners from the deck or pull the heads of the fasteners through the assembled base sheet.

If the withdrawal and pull through resistance is at least seventy-seven pounds on average, the roof covering should provide FM I-90 wind uplift resistance with one Nail-Tite fastener per square foot.

ES Products recommends the use of a Magnetic Driver to help insure proper installation of Nail-Tite base sheet fasteners in gypsum concrete.

Individual manufacturers of membrane systems should be consulted for fastening patterns and any other requirements specific to the application of their products.

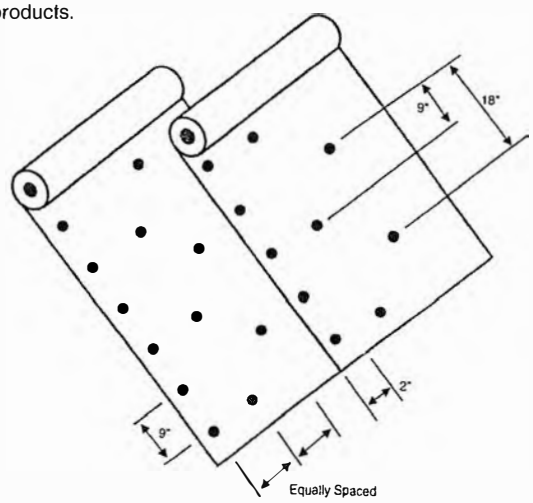
FASTENING GUIDE I
CLASS I-60 or I-90
WINDSTORM CLASSIFICATION

An FMRC Approved base felt is secured to an FMRC Approved Gypsum roof deck as outlined in the current edition of the FMRC Approval Guide.

The base felt is secured with Nail-Tite Type A or Type R base ply fasteners installed 9 in. on center in the 2 in. wide base felt side laps and 18 in. on center staggered in 2 rows, equally spaced, between the felt side laps.

When fastening with this pattern, expect to use approximately 95 fasteners per square (100 FT^2).

IMPORTANT:
The illustrated fastening pattern is typical of FMRC Approved fastening patterns. Consult the membrane manufacturer for their specific construction requirements. The ES Products Magnetic Nail-Tite Driver is the recommmended tool when installing Nail-Tite base ply fasteners.



CEMENTITIOUS WOOD FIBER BASE SHEET ATTACHMENT

ES Products uses Factory Mutual's Approval Guide, FM's Loss Prevention Guide, and FM Approval reports as the basis for discussion of wind uplift ratings.

A roof covering system over a low slope cementitious wood fiber roof deck must utilize an appropriate membrane system including a compatible base sheet attached to the deck with an adequate number of properly spaced fasteners.

A fastener density of 1.25 fasteners per square foot can be expected to provide FM Class I-60 wind uplift resistance if at least fourty-eight pounds is required to withdraw single fasteners from the deck or pull the heads through the assembled base sheet.

Fastener density should be increased in perimeters and corner areas. Specific spacing and density should be recommended or approved by the membrane manufacturer.

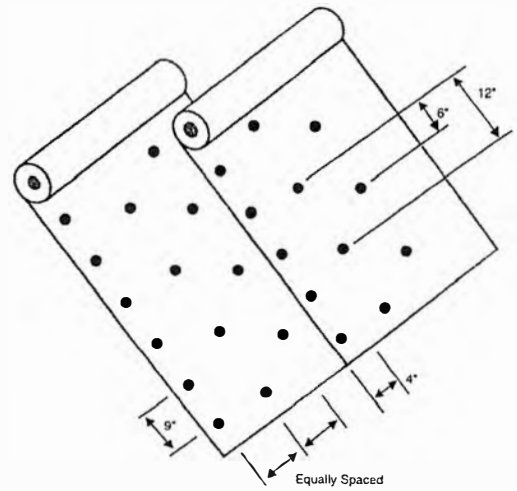
FASTENING GUIDE III
CLASS I-60
WINDSTORM CLASSIFICATION

An FMRC Approved base felt is secured to an FMRC Approved cementitious wood fiber roof deck as outlined in the current edition of the FMRC Approval Guide.

The base felt is secured with Insuldeck Loc-nails installed 9 in. on center in the 4 in. wide side laps and 12 in. on center staggered in 2 rows, equally spaced, between the base sheet side laps.

When fastening with this pattern, expect to use 125 fasteners per square (100 FT^2).

IMPORTANT:
The illustrated fastening pattern is typical of FMRC Approved fastening patterns. Consult the membrane manufacturer for their specific construction requirements.



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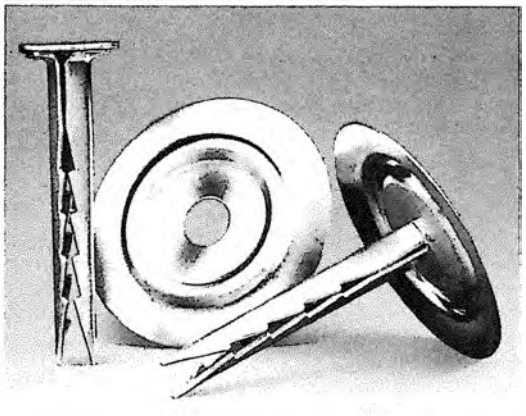
HARDENED DO-ALL LOC-NAIL

ES PRODUCTS

PRODUCT:



Self-locking one piece fastener for securing base-ply, shingles, and flashing to a wide variety of roofing substrates. For use in concealed applications only.

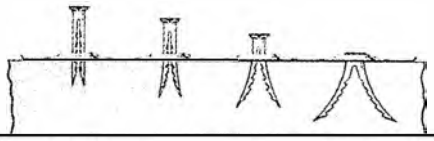
The Hardened Do-All Loc-Nail is recommended for use in Oriented Strand Board, Plywood, Nailable Concrete, and Gypsum (new & reroof). Provides superior withdrawal resistance over conventional fasteners in virtually any nailable substrate.

Suitable for securing all types of base plies, shingles (asphalt, metal, non-metal) and flashings. When securing base ply, the Hardened Do-All Loc-Nail must be used with our Metal Cap (pictured) with .235" Hole. Metal Cap is not required for shingle or flashing applications.

COMPOSITION:

Fastener: 1-3/8" long precision formed one-piece steel construction featuring dual serrated legs with sharp angular points. 3/8" diameter head. Zinc plated for superior corrosion resistance.

Cap: 1-3/16" diameter. Precision formed steel with reinforcing asphalt barrier ring. Zinc plated for superior corrosion resistance.



TECHNICAL DATA:

Wind Uplift: Individual nail withdrawal resistance varies with thickness, density and compressive strength of the roofdeck material.

Nailing Pattern: Consult deck and shingle/membrane manufacturer's requirements for recommended patterns in normal, exposed, and hurricane areas.

Approvals: Approved and specified for shingle application to Loadmaster Roofdeck Assemblies.

INSTALLATION:

Equipment: Use an ordinary roofer's hammer. No special tools required.

Method: Drive Hardened Do-All Loc-Nail as an ordinary nail. DO NOT TOE. Seat head/cap flush with roofing surface.

Operation: As Hardened Do-All Loc-Nail is driven, dual legs diverge and serrations grip substrate, permanently locking fastener in place. No predrilling required.

Maintenance: No maintenance is required after installation.

Availability: Hardened Do-All Loc-Nail is a patented, proprietary product manufactured only by ES Products, Inc., distributed by leading roofing material and equipment wholesalers throughout the United States. For details, information, and pricing, please contact ES Products, Inc.

Packaging: 2500 Hardened Do-All Loc-Nails per carton. Shipping weight 13 lbs. Master cartons contain 10,000 fasteners and weigh 52 lbs.

Proudly Made in The U.S.A.

Warranty: ES Products, Inc. warrants its products for one year from date of sale against defective workmanship and material, and its liability therefore shall be limited to replacing defective products reported defective during the warranty period. ES Products is not responsible for any failure attributable to improper use or installation in any manner inconsistent with manufacturer's specifications. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, ALL OF WHICH ARE EXPRESSLY DISCLAIMED INCLUDING ANY WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR PARTICULAR USE.
This warranty provides specific legal rights and remedies which may vary from state to state.

Over 3 million painted parts in stock ready for same day shipping

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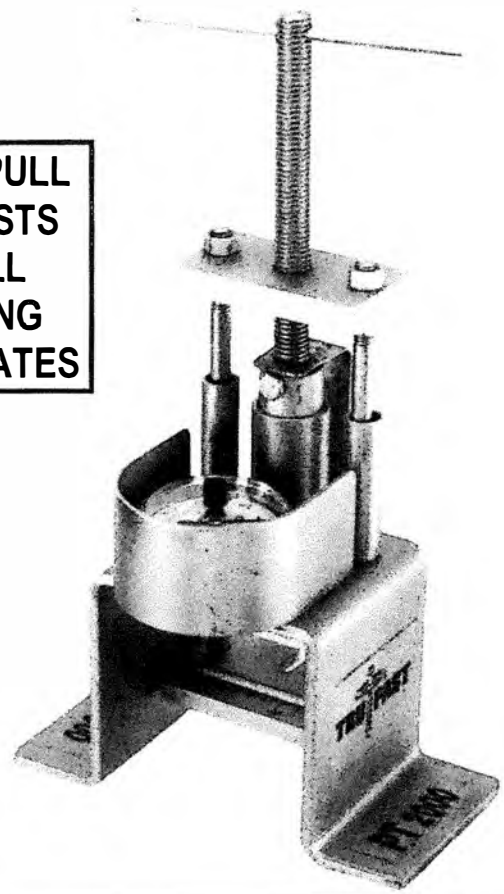
TRU FAST

Pull Test Unit PT 2000

Purpose:

To document and record on site Pull-out Values.
Horizontal or vertical in all types of substrates.

WE DO PULL OUT TESTS ON ALL ROOFING SUBSTRATES



Use:

Use with screws, togglebolts, fasteners for Gypsum and Tectum type decks.

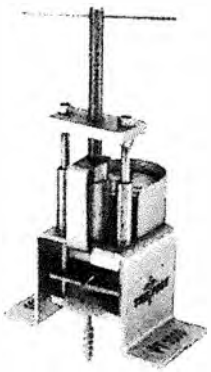
Design:

Sturdy and rugged, pull tests up to 2000 lb.
Simple to operate.

Weight 9½ lb.

Each test unit comes in its own carrying case.

Proves Fastening Integrity for Existing or New Roof Construction

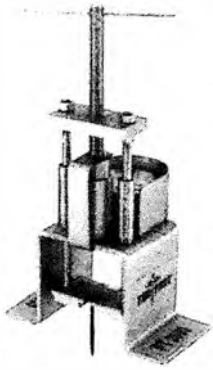


Steel Fasteners:

Conduct Pull Tests with screws, toggle bolts, concrete (threaded or drive-in) Type Fasteners.

Corrosion Protection:

Complete Test Unit is zinc plated.



Pressure Gauges

Accuracy — ANSI grade A — 1%

Large 2½" Diameter dial includes maximum reading hand.

Choice of 0-1000 or 0-2000 PSI pressure readings.

Positioned on Tester for easy visibility by operator.

Plastic Fasteners:

Conduct Pull Tests with larger diameter Tectum and Gypsum Type Fasteners with no changes or extra pieces.

Fast overnight service

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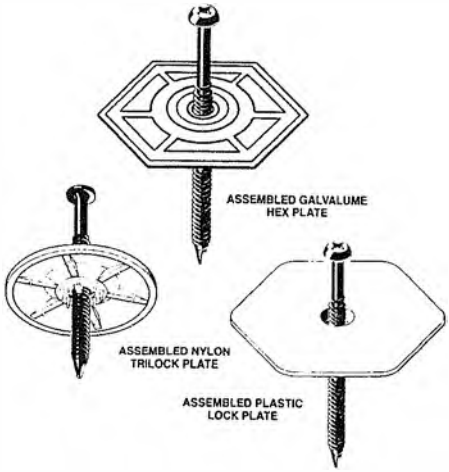
DEKFAST™

Preassembled Screw & Plate Fastening Systems
Dekfast Pick-Up Tool

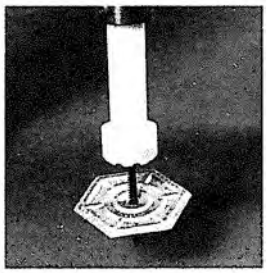


PREASSEMBLED SCREW AND PLATE FASTENING SYSTEMS

- Factory assembly makes installation faster
- Assembled components can be easily prepositioned in roof insulation
- Can be installed using *standard* electric screw gun.
- Dekfast Pick-up Tool™ provides easy three step installation ➤➤➤

1
Touch the nose of the tool to the head of the fastener and it pops into the magnetic nosepiece.

2
Lift the tool to let the fastener hang on the nose of the tool. Move and position the tool to install.



3
Push down on the tool to engage the vertical fastener in the drive bit and trigger the tool to install.

ASSEMBLED INSULATION PLATES (HEX)

AVAILABLE LENGTHS									
2⅞"	3¼"	3¾"	4½"	5"	6"	7"	8"	10"	12"

ASSEMBLED MEMBRANE PLATE (ROUND)

AVAILABLE LENGTHS							
2⅞"	3¼"	3¾"	4½"	5"	6"	7"	8"

MATERIAL AND NOMINAL DIMENSION SPECS.				
MAT'L.	MAJ. DIA.	THREADS	HEAD TYPE	HEAD SIZE
Carbon Steel Screw with Sentri Coating	.240" Nom.	13 T.P.I.	#3 Phl. Drive Flat Truss	.440" Nom. Dia.
Copolymer	3" A/F	Hexagonal Lock Plate		
Galvalume *	2⅞" A/F	Hexagonal Steel Plate		
Nylon	2"	Round Plate with Spikes		

* Galvalume is a registered trademark of Bethlehem Steel Co.

FSI specializes in solving problems

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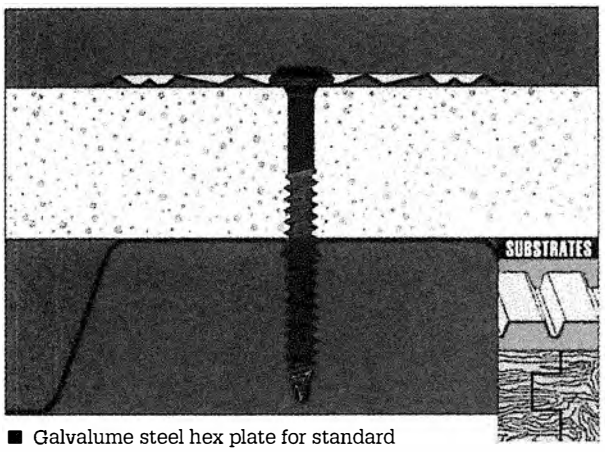
DEKFAST™

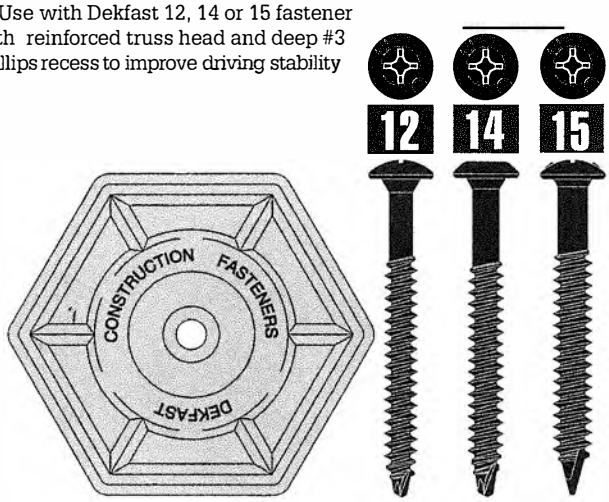
Roof Insulation Fastening Systems

Steel Hex Plate

For Steel, Wood and Structural Concrete Decks



- Galvalume steel hex plate for standard insulation requirements
- Use with Dekfast 12, 14 or 15 fastener with reinforced truss head and deep #3 phillips recess to improve driving stability



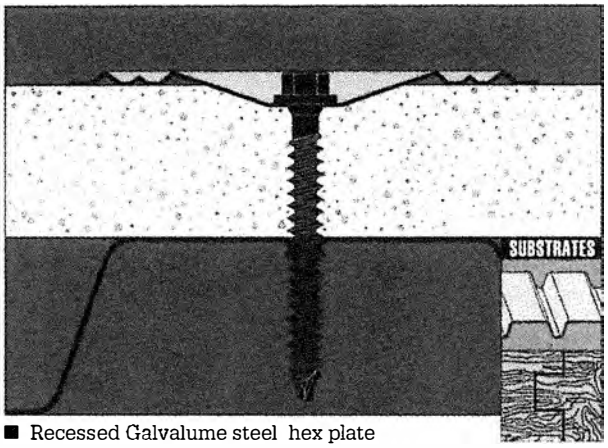
Nominal Length	1 5/8	2 1/4	2 7/8	3 3/4	4 1/2	5
Steel Roof Decks	UP to 1 1/4	UP to 1 7/8	UP to 2 1/2	1 to 3 3/8	3/4 to 4 1/8	1 1/4 to 4 5/8
Wood Decks	UP to 5/8	UP to 1 1/4	UP to 1 7/8	3/4 to 2 3/4	1/2 to 3 1/2	1 to 4
Concrete Decks (Structural)	N/A	N/A	N/A	N/A	N/A	N/A

Material	Maj. Dia.	Threads	Head Type	Head Size
Carbon Steel Sentri Coating	.220"	13 T.P.I.	HWH or #3 Phillips Head Truss	1/4 (AF) or Nom. .440" O.D.

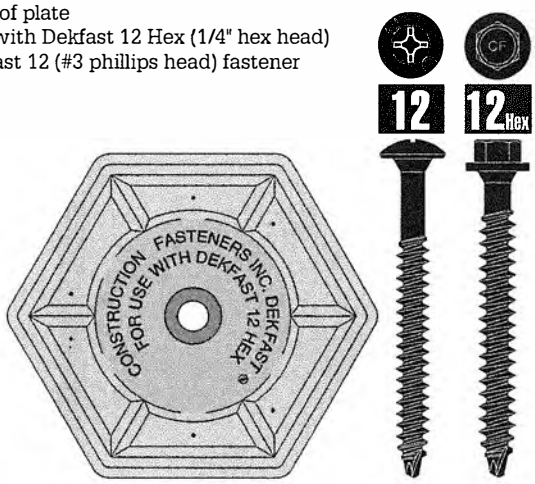
1. Steel Roof Decks include all FM approved 18-20-22 gauge.
2. FMapproved wood decks include F.R. plywood and 2x dimension lumber.(See FM Approval Guide)
3. Install with 2000-2500 RPM screw guns with #3 hardened Phillips drive bit or 1/4" hex socket (for 12Hex).

Recessed Steel Hex Plate

For Steel and Wood Roof Decks



- Recessed Galvalume steel hex plate provides exceptional uplift resistance
- Fastener head is countersunk below top surface of plate
- Use with Dekfast 12 Hex (1/4" hex head) or Dekfast 12 (#3 phillips head) fastener



Nominal Length	1 1/4	1 5/8	2 1/4	2 7/8	3 1/4	3 3/4	4 1/2	5	6	7	8	10	12
Steel Roof Decks	UP to 7/8	UP to 1 1/4	UP to 1 7/8	UP to 2 1/2	3/4 to 2 7/8	1 to 3 3/8	3/4 to 4 1/8	1 1/4 to 4 5/8	2 1/4 to 5 5/8	3 1/4 to 6 5/8	4 1/4 to 7 5/8	6 1/4 to 9 5/8	8 1/4 to 11 5/8
Wood Decks	UP to 1/4	UP to 5/8	UP to 1 1/4	UP to 1 7/8	UP to 2 1/4	3/4 to 2 3/4	1/2 to 3 1/2	1 to 4	2 to 5	3 to 6	4 to 7	6 to 9	8 to 11
Concrete Decks (Structural)	UP to 1/4	UP to 5/8	3/4 to 1 1/4	1 3/8 to 1 7/8	1 3/4 to 2 1/4	2 1/4 to 2 3/4	3 to 3 1/2	3 1/2 to 4	4 1/2 to 5	5 1/2 to 6	6 1/2 to 7	8 1/2 to 9	10 1/2 to 11

Material	Maj. Dia.	Threads	Head Type	Head Size
Carbon Steel Sentri Coating	.240"	13 T.P.I.	#3 Phillips Drive Flat Truss	.440"

1. Steel Roof Decks include all FM approved 18-20-22 gauge. Install with 2000-2500 RPM screw guns and #3 hardened Phillips bit.
2. FM approved wood decks include F.R. plywood and 2x dimension lumber
3. Structural concrete to be predrilled with standard 3/16" carbide bit to minimum 1/2" deeper than fastenerpenetration. Install fasteners with slow speed (1500RPM maximum) hammer drill with tool in hammer mode. Use #3 hardened Phillips bit to drive fasteners

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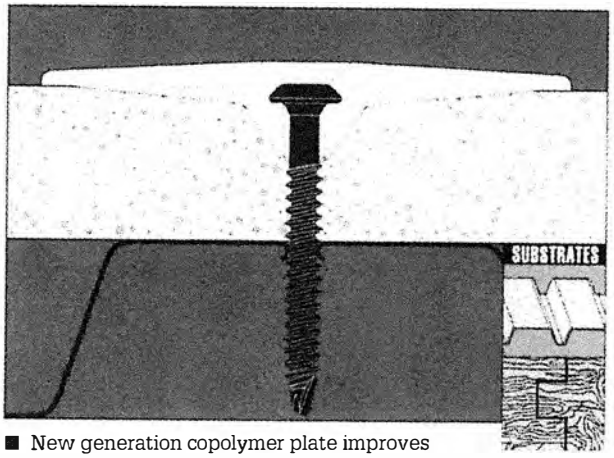
DEKFAST™

Roof Insulation Fastening Systems

Plastic Hex Lock Plate

For Steel, Wood and Structural Concrete Decks



- New generation copolymer plate improves impact strength and cold crack resistance
- Large hexagonal (3" A/F) bearing surface ideal for all insulation boards
- Fastener head locks into plate to prevent roof membrane damage and resist rotation
- Use with Dekfast 12 or 14 fastener

Nominal Length	1¼	2	3	4	5	6	7	8	10	12	14	16*
Steel Roof Decks	UP to ¾	UP to 1½	UP to 2½	1¼ to 3½	1¼ to 4½	2¼ to 5½	3¼ to 6½	4½ to 7½	6¼ to 9½	8¼ to 11½	10¼ to 13½	12¼ to 15½
Wood Decks	UP to ¼	UP to 1	UP to 2	1 to 3	1 to 4	2 to 5	3 to 6	4 to 7	6 to 9	8 to 11	10 to 13	12 to 15
Concrete Decks (Structural)	UP to ¼	UP to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	8 to 9	10 to 11	12 to 13	14 to 15

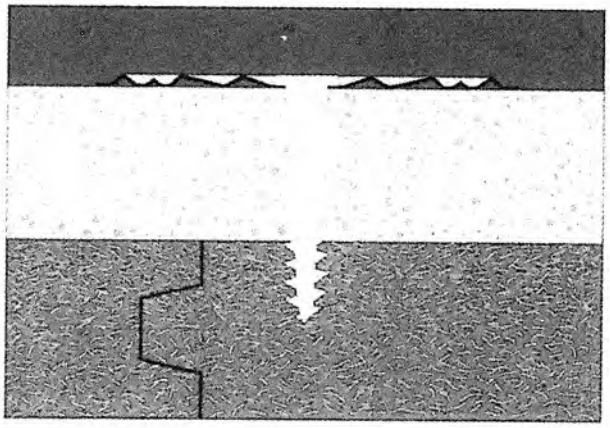
Material	Maj. Dia.	Threads	Head Type	Head Size
Carbon Steel Sentri Coating	.260"	13 T.P.I.	#3 Phillips Drive Truss w/ Beads	.440"

1. Steel Roof Decks include all FM approved 18-20-22 gauge. Install with 2000-2500 RPM screw guns and #3 hardened Phillips bit
2. FM approved wood d cks include F.R. plywood and 2x dimension lumber
3. Structural concrete to be predrilled with standard 7/32" carbide bit to minimum 1/2" deeper than fastener penetration. Install fasteners with slow speed (1500 RPM maximum) hammer drill with tool i hammer mode. Use #3 hardened Phillips bit to drive fasteners

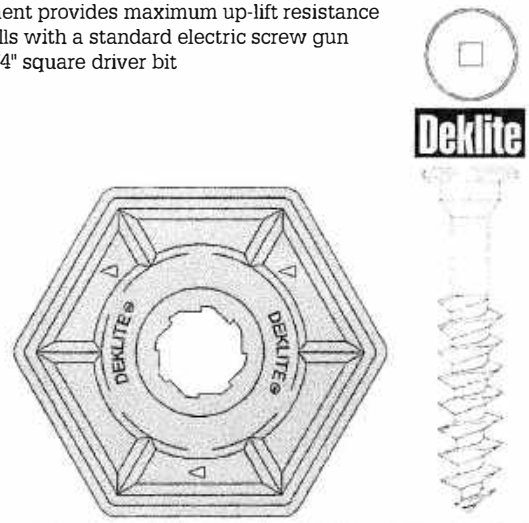
*Additional Lengths Available to 26"

Non-Penetrating Fastener and Metal Plates

For Gypsum, Lightweight Concrete and other Cement Fiber Decks



- High thread design and tapered root diameter provide exceptional pull-out strength
- Hex steel retaining plate for insulation attachment provides maximum up-lift resistance
- Installs with a standard electric screw gun and a 1/4" square driver bit



Length	2	2½	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9	9½	10

Material	Maj. Dia.	Threads	Head Type	Head Size
Glass Reinforced Nylon	11/16" Nom.	3.5 T.P.I.	Internal Square Drive	1" Dia. with ¼" Sq. Drive

FOR ALL DEKFAST FASTENERS

Refer to Technical Bulletin 701, F.M. Approval Guide, and supplements for current F.M. approved insulation fastening patterns

Galvalume is a registered Trademark of Bethlehem Steel Corporation.

Communication is the key to FSI's success

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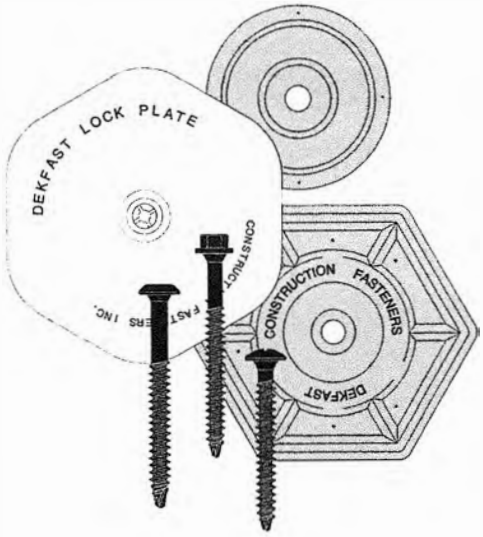
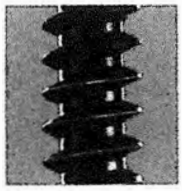
DEKFAST™

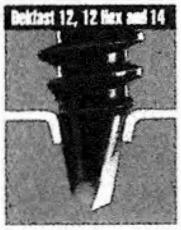
Roof Insulation Fastening Systems



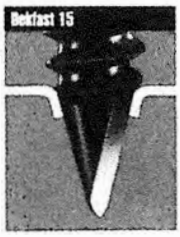
The Head... Reinforced truss head with deep #3 phillips recess, available with Dekfast 12*, 14 and 15 fasteners, improves driving stability.
*Dekfast 12 also available in hex washer head



The Thread... larger diameter and unique thread profile increases overall strength and 13 threads per inch means higher strip torque.

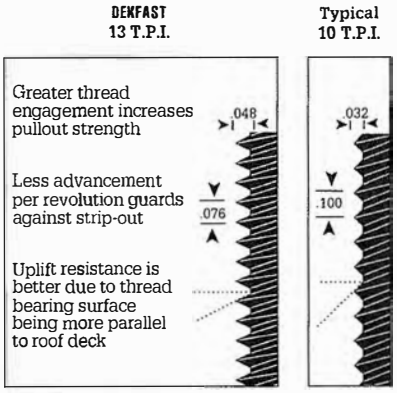


The Point... Dekfast 12, 12 Hex and 14... patented, tapered offset drill-type point actually extrudes the hole, reinforcing the perimeter to improve pull-out resistance and speed installation.



Dekfast 15... small drill point design and larger root diameter provide exceptional drilling performance allowing excellent "drift" through built-up and aggregate surfaces.

All Dekfast fasteners have Sentri Long-Life coating



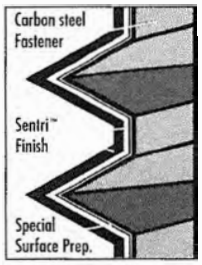
Compared to typical fasteners with ten threads per inch, there is less advancement per revolution and significantly greater thread engagement in the deck.

This combination helps to guard against strip-out, reduces the likelihood of back-outs and provides greater pull-out strength. Uplift resistance is further enhanced due to the fact that the thread bearing surface is more parallel to the roof deck.

All DEKFAST screws are coated with our exclusive Sentri Long-Life finish. Developed by CFI, this new waterborne formulation is applied in an electro-deposition process similar to plating.

This electrolytic coating (E-Coat) process results in an exceptionally smooth and uniform finish in a precise thickness that virtually eliminates irregularities or fastener head fills.

SENTRI™
LONG-LIFE FINISH



Factory Mutual System APPROVED

Sentri "E"-coat is a catalyzed epoxy coating that provides outstanding resistance to rust and corrosion. In Kesternich tests performed in strict accordance with DIN 50018 specifications it exceeds Factory Mutual's Standard 4470!

CONSTRUCTION FASTENERS, INC.

Most items ordered before 4:30pm ship the same day at 98.5% fill rate

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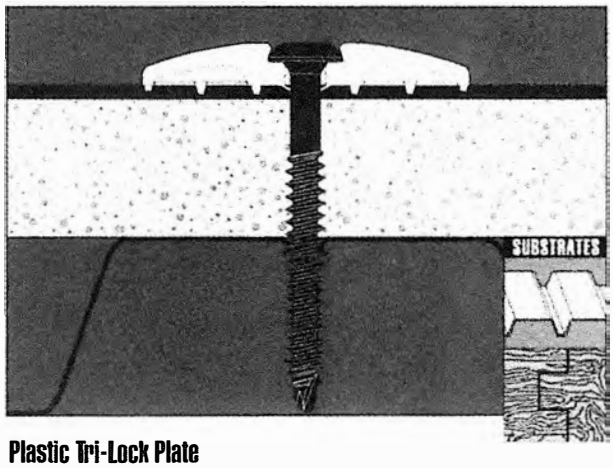
DEKFAST™

Roof Insulation Fastening Systems

Plastic Tri-Lock Plate & Round Steel Plate

For Steel, Wood and Concrete Single-ply Membrane Applications

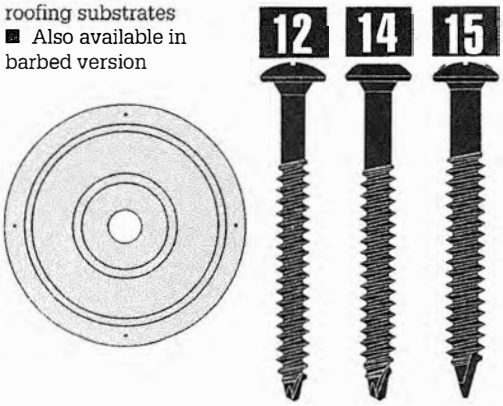


Plastic Tri-Lock Plate

- Dupont certified virgin nylon is resilient and strong, assuring consistent quality and performance
- Lock-in and anti-rotation features prevent fastener back-out
- Flat bottom design permits use with all roofing substrates

Round Steel Plate

- Galvalume steel retaining plate
- Flat bottom design permits use with all roofing substrates
- Also available in barbed version



The Pick-Up Tool

The Pick-Up Tool is designed for use with *pre-assembled* **DEKFAST**™ screws and plates. The magnetic nose piece enables the installer to pick up individual assemblies from a standing position. It provides quick and precise depth-sensitive installation and comes complete with a Milwaukee (Model #6799-69) screw gun.

The Stand-up Tool*

The Model 300 Stand-up tool can be used to install either hex head or phillips drive **DEKFAST**™ fasteners (all diameters) up to 8" long from a standing position. Adaptable to Black & Decker or Milwaukee (AEG) electric screwdrivers, the stand-up tool features a depth-sensing adjustment to insure precise attachments.

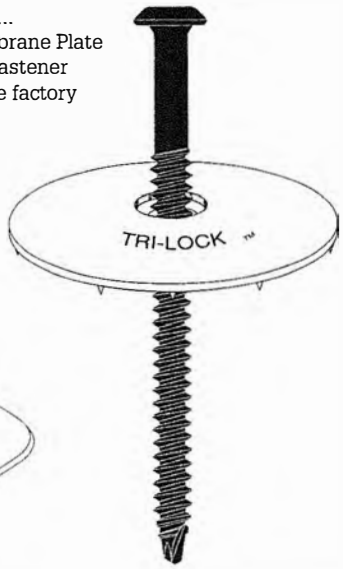
The Shortool*

The shortool is lightweight and simple to use, installing any length fastener quickly and easily. Featuring an adjustable depth setting, the shortool is available for Milwaukee, or Black & Decker screw drivers.

*Flange Kit available for adapting either tool to preassembled parts.

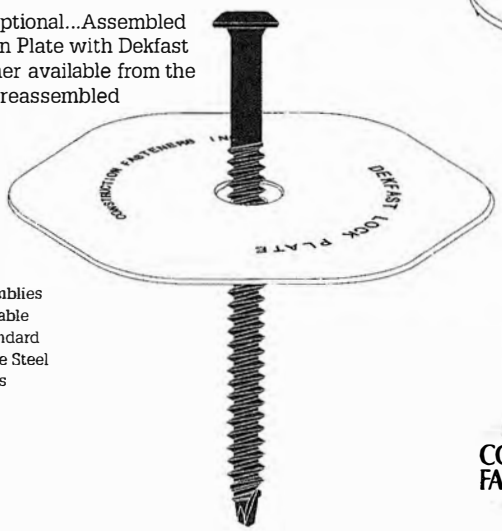
Assembled Membrane Plate (AMP)

- **AMP** Optional... Assembled Membrane Plate with Dekfast 14 fastener available from the factory preassembled



Assembled Insulation Plate (AIP)

- **AIP** Optional...Assembled Insulation Plate with Dekfast 14 fastener available from the factory preassembled



* AIP assemblies also available using standard Galvalume Steel Hex Plates

CONSTRUCTION FASTENERS, INC.

Same day color match - In house painting

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Toggle Bolts

OLYMPIC FASTENERS
ROOFING PRODUCTS

ALSO AVAILABLE IN IRON LOK ANTI BACK OUT COATING

PRODUCT DESCRIPTION

The Olympic Toggle Bolt is designed to attach insulation to gypsum, all cementitious wood fiber decks (Permadeck, Insulrock, Tectum®, etc.) and lightweight concrete decks. This fastener can also be used for applications where conditions require a positive locking fastener.

The Olympic Toggle Bolt can be ordered assembled with 2" or 3" steel or plastic plate, plastic strap and wing.

The Olympic Toggle Bolt is Factory Mutual and Dade County approved.

APPLICATION

A 3/4" pilot hole must be drilled entirely through the deck. Using a screwshooter, drive the fastener until the wing is drawn up against the underside of the deck and the attachment is tight.

The Olympic Toggle Bolt must be long enough to allow a minimum of 1 1/2" clearance on the underside of the deck in order for the wing to open.

Note: Care must be taken not to overdrive the fastener causing the wing to damage the underside of the deck. Prior to job bid, contact Olympic to perform a pullout test to determine the pullout values.

Fast Facts

The Olympic Toggle Bolt is designed to attach insulation to gypsum, all cementitious wood fiber, Tectum® and lightweight concrete decks or decks where conditions require a positive locking fastener.

PHYSICAL DATA

The data below is constant for each Olympic Toggle Bolt.

Thread Diameter: .250
Head Height: .125
Head Diameter: .435
Head Style: #3 Phillips Truss Head
Coating: CR-10
Toggle Height: (Closed) 1.25"
Toggle Spread: 2.25"

*#3 phillips bit included in each carton.

**Indicate to your Olympic Sales Rep plate material and diameter.

Cat. No.	Length	Thread Length	Packaging	Weight
CRT04	4"	3"	500	22 lb
CRT06	6"	4"	500	33 lb
CRT07	7"	4"	500	38 lb
CRT08	8"	4"	500	43 lb
CRT10	10"	4"	500	54 lb
CRT12	12"	4"	500	67 lb
CRT14	14"	4"	500	74 lb
CRT16	16"	4"	500	83 lb
ASSEMBLED TOGGLE BOLTS**				
RST04**	4"	3"	250	28 lb
RST06__	6"	4"	250	33 lb
RST07__	7"	4"	250	36 lb
RST08__	8"	4"	250	39 lb
RST10__	10"	4"	250	45 lb
RST12__	12"	4"	250	50 lb
RST14__	14"	4"	150	57 lb
RST16__	16"	4"	150	61 lb

FEATURES & BENEFITS

- F.M. and Dade County approved.
- Assembled Toggle Bolt saves time and money on job.
- The Olympic Toggle Bolt is a positive locking fastener.
- Each Olympic Toggle Bolt that is 6" or longer has 4" of thread.

COATING

Olympic CR-10 corrosion resistant coating exhibits less than 15% red rust after 25 Kesternich cycles. CR-10 coating exceeds F.M. Approval Standard 4470.

PLATES & ACCESSORIES

Use a 2" or 3" steel or plastic plate, depending upon the application. See Plates section.

Use a 3/4" carbide tip SDS or straight shank drill bit. See Accessories section.

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

CD-10 Structural Concrete Deck Fastener

OLYMPIC FASTENERS
ROOFING PRODUCTS

PRODUCT DESCRIPTION

The Olympic CD-10 is a hammer-in, non-threaded fastener designed to secure insulation and single-ply membrane to structural concrete. This fastener is available in 2" - 12" lengths. The CD-10 is Factory Mutual and Dade County approved.

APPLICATION

Predrill a 7/32" hole using an SDS or straight shank bit. The fastener is then installed with a 2 lb. short handle sledge hammer.

Minimum fastener embedment into the deck should be 1". The predrilled hole must be a minimum of 1/2" deeper than fastener embedment.

Note: Prior to job start, contact Olympic to perform a pullout test to determine the pullout values. Also, care must be taken not to overdrive the fastener causing subsequent damage to the insulation facer.

Fast Facts

The Olympic CD-10 is designed for attaching insulation and single-ply membrane to structural concrete.

FEATURES & BENEFITS

- 45° point angle allows easier installation and less chance of hole damage.
- Split bulb exerts pressure on walls of hole, producing remarkable holding power.
- Strongest hammer-in fastener available.
- Typical pullout values in cured concrete (3000 psi) are 1000 lbs. to 1200 lbs. A pullout test is recommended.
- The Olympic CD-10 is F.M. and Dade County approved.

COATING

Olympic CR-10 corrosion resistant coating exhibits less than 15% red rust after 25 kesternich cycles. CR-10 coating exceeds F.M. Approval Standard 4470.

PLATES & ACCESSORIES

2" or 3" steel or plastic plates, depending on application. See Plates section.

Use a 7/32" carbide tip SDS or straight shank drill bit.

PHYSICAL DATA	Cat. No.	Length	Packaging	Weight
The data below is constant for each Olympic CD-10.	CD002	2"	500	12 lb
	CD212	2 1/2"	500	15 lb
	CD003	3"	500	18 lb
	CD312	3 1/2"	500	20 lb
Head Diameter: .435	CD004	4"	500	23 lb
Head Height: .125	CD412	4 1/2"	500	25 lb
	CD005	5"	500	28 lb
Head Style: Flat Top Pan	CD512	5 1/2"	500	31 lb
Split Diameter: .265/.275	CD006	6"	500	34 lb
	CD007	7"	500	39 lb
Coating: CR-10	CD008	8"	500	45 lb
	CD009	9"	500	49 lb
	CD010	10"	500	55 lb
	CD011	11"	500	60 lb
	CD012	12"	500	65 lb

We put the *fast* in fasteners

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OLYMPIC FASTENERS

ROOFING PRODUCTS

HEAVY DUTY ROOFING FASTENER

ALSO CAN BE USED TO FASTEN INSULATION TO CONCRETE

PRODUCT DESCRIPTION

The Olympic Heavy Duty Roofing Fastener is designed to secure insulation and single-ply membrane to heavy steel (18 ga. - 20 ga.). It is available in lengths from 1 1/4" - 16" in stock, longer lengths are made to order. The Olympic Heavy Duty Roofing Fastener is Factory Mutual and Dade County approved.

APPLICATION

The Olympic Heavy Duty Roofing Fastener must penetrate the deck a minimum of 1/2". Using a screwshooter, drive the fastener until a slight depression is seen around the plate, or with very rigid insulation boards, watch for the plate to dimple.

Note: Care must be taken not to overdrive the fastener and fracture the skin of the insulation. Fastener must be tight enough so that the plate doesn't turn.

Fast Facts

The Olympic Heavy Duty Roofing Fastener is designed to secure insulation and single-ply membrane to heavy steel (18 ga. - 20 ga.) decks.

FEATURES & BENEFITS

- Heavier shank & thread diameters than most "heavy duty" roofing fasteners.
- Deep thread for high pullout resistance.
- Extra sharp point for quick installation in new or reroof applications.

COATING

Olympic CR-10 corrosion resistant coating exhibits less than 15% red rust after 25 Kesternich cycles. CR-10 coating exceeds F.M. Approval Standard 4470.

PLATES & ACCESSORIES

Use 2" or 3" steel or plastic plates, depending upon the application. See Plates section.

For best installation results, use AEG SCR1E-1 variable speed screw gun with 0-2500 rpm. See Accessories section.

PHYSICAL DATA

The data below is constant for each Olympic Heavy Duty Roofing Fastener.

Thread Diameter: .245
Shank Diameter: .190
Head Diameter: .435
Head Style: #3 Phillips Truss Head**
Coating: CR-10

* Longer length fasteners are made to order.

**#3 phillips bit included in each carton.

Cat. No.	Length*	Thread Length	Packaging	Weight
CR114	1 1/4"	Full	1000	12 lb
CR134	1 3/4"	Full	1000	16 lb
CRHD2	2"	Full	1000	18 lb
CRHD3	3"	Full	1000	26 lb
CRHD4	4"	3"	1000	34 lb
CRHD5	5"	4"	500	21 lb
CRHD6	6"	4"	500	25 lb
CRHD7	7"	4"	500	29 lb
CRHD8	8"	4"	500	33 lb
CRHD9	9"	5"	500	36 lb
CRH10	10"	5"	500	40 lb
CRH11	11"	5"	500	44 lb
CRH12	12"	5"	500	49 lb
CRH14	14"	5"	500	57 lb
CRH16	16"	5"	250	36 lb

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NTB-H Nylon Fastener

OLYMPIC FASTENERS
ROOFING PRODUCTS

ALSO AVAILABLE WITH LOCKING WIRE BARBS TO PREVENT BACK OUT AND ADD PULLOUT RESISTANCE

PRODUCT DESCRIPTION

The Olympic NTB-1H is a glass-filled nylon fastener with a 1" head. It is designed to secure insulation and single-ply membrane to gypsum, all cementitious wood fiber decks (Permadeck, Insulrock, Tectum®, etc.) and lightweight concrete decks.

The NTB-1H may be used with a 3" steel plate for insulation attachment. For single-ply membrane attachment, use a 2" barbed plastic plate, a 2" steel plate (with or without barbs) or batten bar.

The NTB-1H is available in 2 1/2" to 10" lengths.

The NTB-1H is Factory Mutual and Dade County approved.

APPLICATION

The Olympic NTB-1H can be installed into Tectum® decks without predrilling. A pilot hole is required for gypsum, lightweight concrete and some cementitious wood fiber. Use a 7/16", 1/2" or 9/16" carbide tip drill bit. Diameter of drill bit is determined by pullout test results. Hole depth must be 1/2" deeper than minimum embedment.

Minimum fastener embedment into the deck should be 1 1/2" (2" recommended). NTB fastener should never penetrate the underside of the deck.

The use of a 3" plate is recommended for securing insulation.

Note: Prior to job bid, contact Olympic to perform a pullout test to determine drill bit size and the pullout values. Also, care must be taken not to overdrive the fastener causing subsequent damage to the insulation facer.

NTB-1H

Fast Facts

The Olympic NTB-1H with a 1" head is a glass-filled nylon fastener designed to secure insulation and single-ply membrane to gypsum, all cementitious wood fiber, Tectum® and lightweight decks.

FEATURES & BENEFITS

- Thread design & large root diameter:
  - Increase pullout resistance
  - Increase side shear strength
- Made from glass-filled nylon which:
  - Eliminates corrosion
  - Eliminates thermal bridging and condensation
  - Yields high tensile strength
- The Olympic NTB-1H is F.M. and Dade County approved.

PLATES & ACCESSORIES

Use 3" steel plate, 2" barbed plastic plate, 2" steel plate (with or without barbs), or batten bar. See Plates section.

Use a carbide tip drill bit for gypsum, lightweight concrete and some cementitious wood fiber applications.

PHYSICAL DATA	Cat. No.	Length	Packaging	Weight
The data below is constant for each Olympic NTB-1H	NTB1025WO	2 1/2"	500	13 lb
	NTB1030WO	3"	500	15 lb
	NTB1035WO	3 1/2"	500	16 lb
	NTB1040WO	4"	500	18 lb
Head Size: 1" Diameter	NTB1045WO	4 1/2"	500	18 lb
Head Style: Double Internal Hex Drive	NTB1050WO	5"	500	22 lb
	NTB1055WO	5 1/2"	500	23 lb
Major Thread Diameter: .750	NTB1060WO	6"	500	25 lb
	NTB1065WO	6 1/2"	500	26 lb
	NTB1070WO	7"	500	27 lb
Thread: 3.5 T.P.I. Buttress	NTB1075WO	7 1/2"	500	28 lb
Material: Glass-Filled Nylon	NTB1080WO	8"	250	14 lb
	NTB1085WO	8 1/2"	250	15 lb
	NTB1090WO	9"	250	16 lb
	NTB1095WO	9 1/2"	250	17 lb
	NTB1100WO	10"	250	18 lb

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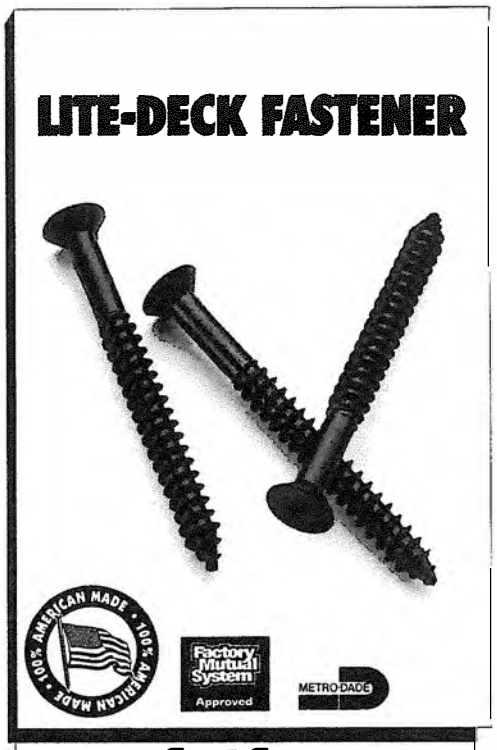
Lite-Deck Fastener

OLYMPIC FASTENERS
ROOFING PRODUCTS



PRODUCT DESCRIPTION

The Olympic Lite-Deck Fastener is designed to secure insulation to gypsum, all cementitious wood fiber decks (Permadeck, Insulrock,Tectum® , etc.) and lightweight concrete. It is available in lengths from 2 5/8"-12". The Olympic Lite-Deck Fastener is Factory Mutual and Dade County approved.

APPLICATION

The Olympic Lite-Deck Fastener can be installed into cementitious wood fiber decks without predrilling. A pilot hole is required for gypsum and insulating concrete. Hole size is determined by pullout results.

The Olympic Lite-Deck Fastener must penetrate the deck a minimum of 2". Using a screwshooter, drive the fastener until a slight depression is seen around the plate, or with very rigid insulation boards, watch for the plate to dimple.

Note: Prior to job bid, contact Olympic to perform a pullout test to determine the pullout values. Also, care must be taken not to overdrive the fastener causing subsequent damage to the insulation facer. Fastener must be tight enough so that the plate doesn't turn.

Fast Facts

The Olympic Lite-Deck Fastener is designed to secure insulation to gypsum, Tectum® and lightweight concrete decks.

FEATURES & BENEFITS

- The Olympic Lite-Deck Fastener is F.M. and Dade County approved.
- Deep, coarse thread provides high pullout resistance.
- Can be installed into cementitious wood fiber decks without predrilling.

COATING

Olympic CR-10 corrosion resistant coating exhibits less than 15% red rust after 25 Kesternich cycles. CR-10 coating exceeds F.M. Approval Standard 4470.

PLATES & ACCESSORIES

A specially designed 3" steel plate or batten bar with holes 12" on center is to be used when securing insulation. See Plates section.

For best application results, use AEG TC18E-1 high torque variable speed screw gun. See Accessories section.

PHYSICAL DATA

The data below is constant for each Olympic Lite-Deck Fastener.

Thread Diameter: .375
Shank Diameter: .310
Head Diameter: .710
Head Style: #3 Phillips Flat Head*
Coating: CR-10

*#3 phillips bit included in each carton.

Cat. No.	Length	Thread Length	Packaging	Weight
TFH258	2 5/8"	Full	500	31 lb
TFHR3	3"	Full	500	35 lb
TFHR4	4"	3"	500	43 lb
TFHR5	5"	3"	250	28.5 lb
TFHR6	6"	3"	250	32.5 lb
TFHR7	7"	3"	250	40 lb
TFHR8	8"	3"	250	43 lb
TFHR9	9"	3"	250	50 lb
TFH10	10"	3"	250	57 lb
TFH12	12"	3"	250	67.5 lb

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NC Fastener

OLYMPIC FASTENERS
ROOFING PRODUCTS

NC FASTENER

PRODUCT DESCRIPTION

The Olympic NC Fastener is a nylon fastener with a preassembled nylon nut. This fastener is available with a 1" or 2" head diameter. It is designed to attach insulation and single-ply membrane to fiberglass reinforced plastics, light gauge metal and decks with highly humid or corrosive atmospheres.

The Olympic NC Fastener with a 1" head may be used with a 2" steel or plastic plate to secure single-ply membrane to the deck. The 1" head fastener can also be used with a 3" Galvalume® plate to secure insulation to the deck.

The Olympic NC Fastener with a 2" built-in stress plate may be used to secure single-ply membrane to the deck. The 2" head fastener can also be used with a 3" plastic plate to secure insulation to the deck.

The Olympic NC Fastener is Factory Mutual and Dade County approved.

APPLICATION

Using a high speed steel or centering drill bit, predrill a 7/16" hole through the entire deck. Install the NC Fastener into the hole, lightly tapping the fastener head to seat the nut into the deck. Using an AEG low rpm screw gun, drive the fastener until it sits tightly against the stress plate.

Note: Caution should be taken not to overdrive the fastener causing stress plate surface to deflect more than 1/16". Prior to job bid, contact Olympic to perform a pullout test to determine the pullout values.

Fast Facts

The Olympic NC Fastener is designed for attaching insulation and single-ply membrane to fiberglass reinforced plastics, light gauge metal and decks with highly humid or corrosive atmospheres.

FEATURES & BENEFITS

- The Olympic NC Fastener is made of a specially formulated nylon which:
  - Eliminates thermal bridging.
  - Eliminates fastener corrosion.
- Preassembled nut & bolt design offers:
  - High pullout values in fiberglass reinforced decks and marginal metal decks.
  - Increased back out resistance.
- The 2" built-in stress plate:
  - Reduces installation time.
  - Prevents fastener pop-up.
- The Olympic NC Fastener is F.M. and Dade County approved.

PLATES & ACCESSORIES

There are various 2" and 3" plate combinations. See Plates section.

Use a high speed steel or centering drill bit.

PHYSICAL DATA		Cat. No.	Length	Packaging	Weight
Head Diameter:	1" or 2"	NC104	4"	500	14 lb
Head Height:	.100 or .260	NC1O6	6"	500	16 lb
Head Style:	Double Internal Hex Head	NC108	8"	500	18 lb
		NC110	10"	500	28 lb
		NC112	12"	500	34 lb
Material:	Nylon	2" BUILT-IN STRESS PLATE			
Body Diameter:	.290	NC204	4"	500	21 lb
		NC206	6"	500	25 lb
		NC208	8"	500	27 lb
		NC210	10"	250	19 lb
		NC212	12"	250	22 lb

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Purlin Fastener

OLYMPIC FASTENERS
ROOFING PRODUCTS

PURLIN FASTENER

PRODUCT DESCRIPTION

The Olympic Purlin Fastener is designed for attaching single-ply membrane systems to structural steel purlins (18-12 gauge) in standing seam metal roof retrofit applications.

The Olympic Purlin Fastener has a 3/4" drill point which allows the screw to quickly drill through the purlin before the threads engage into the standing seam metal roof. This greatly reduces point burnout and breakage as well as eliminates "gapping" between purlin and standing seam metal.

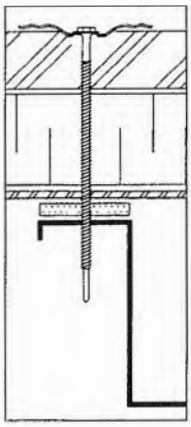
The Olympic Purlin Fastener is available in 3 3/4" to 8" lengths.

The Olympic Purlin Fastener is Factory Mutual approved.

APPLICATION

The Olympic Purlin Fastener must penetrate the purlin or bar joist a minimum of 1". This ensures a minimum of 1/4" thread penetration into the structural beam.

Using a screw gun with a maximum of 1800 RPM, drive the fastener through the purlin or bar joist until a slight depression is seen around the plate.



Note: Caution should be taken not to over-drive the fastener causing stress plate surface to deflect more than 1/16". Prior to job bid, contact Olympic to visit the job site and inspect the deck.

Fast Facts

The Olympic Purlin Fastener is designed for attaching single-ply membrane systems to structural steel purlins in standing seam metal roof retrofit applications.

FEATURES & BENEFITS

- The Olympic Purlin Fastener drills through 24 gauge over 12 gauge steel in seconds.
- The 3/4" drill point allows the point to be drilled through the purlin before the threads engage into the the standing seam metal roof.
- Hex head snaps into Olympic Plastic Locking Plate.
- Low profile hex head has a smooth surface to ensure that there is no damage to the membrane.
- F.M. approved.

PLATES & ACCESSORIES

Use 2" steel barbed or 2" locking plastic plates. See Plates section.

For best installation results, use an AEG TC 18 low RPM drill. See Accessories section.

PHYSICAL DATA

The data below is constant for each Olympic Purlin Fastener.

Thread Diameter: .205
Shank Diameter: .168
Head Diameter: .435
Head Style: 1/4" hex head*
Coating: CR-10

***Hex head drive included in each box.**

Cat. No.	Length	Packaging	Weight
PUR334	3 3/4"	500	13 lb
PUR434	4 3/4"	500	16 lb
PUR534	5 3/4"	500	20 lb
PUR700	7"	500	23 lb
PUR800	8"	500	28 lb

Note: Each Purlin Fastener has a 3/4" drill point. Therefore, the effective fastening length is 3/4" less than actual length.

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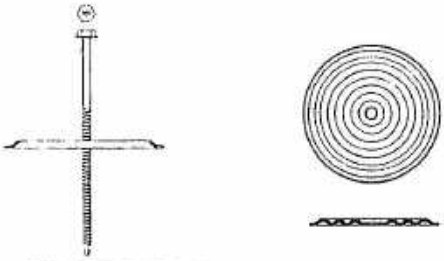
SFS

SFS Preassembled Metal ES



Factory Mutual System Approved

METRO-DADE

Preassembled ES Advantages:
- Rigid fixed preassembly insures perpendicular drive.
- Screw coating will not be compromised
- Fast installation with ES adaptor tools.
- Large 5/16" hex head for positive engagement in high torque applications
- Positive depth stop. Eliminates over-driven fasteners when installed with ES adaptor tools.
- Approved with torch applied, hot mop, and single ply applications.

All Purpose Hex Head Fastener	
Material	Case Hardened Carbon Steel
Thread Diameter	.189
Shank Diameter	.155
Head Diameter	5/16"
Head Style	Hex Head
Point Type	Drill point
Coating	• Tuff-Tite II • Salt spray resistance - 500 hrs. - no corrosion • Kesternich, 30 cycles - Less than 15% red rust • Exceeds FM 4470
Pull Out Load	552 lbs. 20 ga. Steel deck 505 lbs. 22 ga. Steel deck 311 lbs. 24 ga. Steel deck

Material	AZ 55 Galvalume
Diameter	3"

PART NO.	LENGTH	THREAD LENGTH	PIECES/BOX	WEIGHT/BOX
IF2-3" S x 2	2	Full	500	34
IF2-3" S x 2 1/4	2 1/4	Full	500	35
IF2-3" S x 2 3/4	2 3/4	Full	250	18
IF2-3" S x 3 1/8	3 1/8	Full	250	19
IF2-3" S x 3 7/8	3 7/8	Full	250	20
IF2-3" S x 4 3/4	4 3/4	3 3/8	250	21
IF2-3" S x 5 1/2	5 1/2	4 1/8	250	22
IF2-3" S x 6 1/4	6 1/4	4 1/8	250	23

* Additional lengths available upon request.

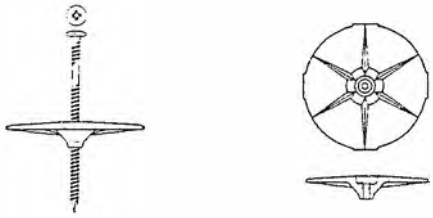
APPLICATION

Preassembled Metal ES Fasteners are designed for the attachment of rigid insulation surfaces used with torch applied, hot mop and single ply steel roof deck projects (18-24 ga.). To achieve maximum installation performance, Metal ES should be installed using an ES Adaptor Tool.

SFS System ES-1 # 14HD

Preassembled Fastener / Plate

For Heavy Duty Insulation Attachment



Factory Mutual System Approved

METRO-DADE

System ES is a preassembled screw and plate. A second set of threads directly beneath the head of the screw tap into an anti-rotational stress plate. This patented design offers the following technical advantages:
- Eliminates fastener backout
- Eliminates fastener pop-up
- Cannot be driven at an angle
- Approved for hot mop and single ply systems
- Eliminates overdriven fasteners

Plastic Stress Plate	
Diameter	3"
Material	HDPE
Melt Index	+ 650 F
Brittleness	- 100 F

#14-10 Phillips Head Fastener	
Material	Case Hardened Carbon Steel
Thread Diameter	.245
Shank Diameter	.190
Head Diameter	.435
Head Style	#3 Deep recess phillips
Point Type	Drill point
Coating	• Tuff-Tite II • Salt spray resistance - 500 hrs. - no corrosion • Kesternich, 30 cycles - Less than 15% red rust • Exceeds FM 4470
Pull Out Load	490 lbs. 22 ga. - Steel deck 690 lbs. 3/4" Plywood 890 lbs. 5500 psi. Concrete

PART NO.	LENGTH	THREAD LENGTH	PIECES/BOX	WEIGHT/BOX
14-10 x 2	2	1 -1/2	500	23
14-10 x 3	3	2	250	13
14-10 x 4	4	3	250	16
14-10 x 5	5	4	250	17
14-10 x 6	6	4	250	19
14-10 x 7	7	4	200	17
14-10 x 8	8	4	200	20
14-10 x 10	10	4	100	11
14-10 x 12	12	4	100	13

* Additional lengths available upon request.

APPLICATION

Preassembled ES Fasteners are designed for the Heavy Duty attachment of insulation to steel decks (18-24 ga.) wood and structural concrete. To achieve maximum installation performance, Preassembled ES Fasteners should be installed using an ES Adaptor Tool.

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SFS

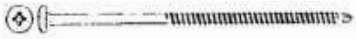
SFS Fastening Systems For The Roofing Industry

ISOFAST PRODUCTS FOR FASTENING FLAT ROOF ASSEMBLIES

AP

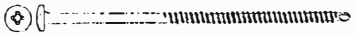
**Size Range: 2" to 6"

#12



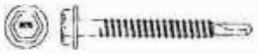
**Size Range: 1 5/8" to 8"

#14 HD



**Size Range: 1 1/4" to 30"

PURLIN SCREWS



**Size Range: 4", 6", and 8"

**Additional Lengths Available Upon Request.

IF-2"-N

Used for membrane

IF-2"-S

(Also available in barbed)

Plastic

IF-3"-P

Metal

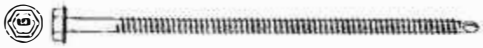
IF-3"-S

Used for insulation.

DECK FASTENERS FOR STEEL & WOOD ROOF APPLICATIONS

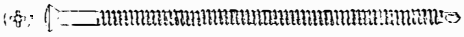
For Steel Roof Decks:

IF



*Size Range: 2" to 6"

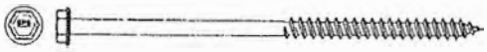
IF-C



Size Range: 2" to 6 1/4"

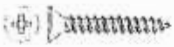
For Wood Roof Decks:

IG



Size Range: 2 1/4" to 6"

IW



*Size Range: 1" to 2 1/4"

Isofast IF/IG

82 x 40mm

70 x 70mm

82 x 40mm (dome convex)

Isofast IFC/IW

82 x 40mm

70 x 70mm

Isofast IF & IG fasteners are also available for use with the IF 160 tool.

*Also Available in Stainless by special order.

SFS FASTENERS FOR CONCRETE ROOF DECKS

#14 HD

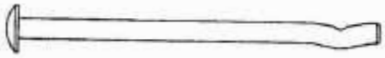
*Size Range: 1 1/4" to 16"

PREASSEMBLED ES-I #14 HD

*Size Range: 2" to 12"

STADLER SPIKE

3/16" SPIKE

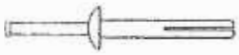


Size Range: 1" to 10"

1/4" SPIKE

Size Range: 1" to 14"

STADLER NAILIN ANCHORS



Size Range: 3/16" x 7/8"
1/4" x 3/4" thru 2"

*Additional Lengths Available Upon Request.

Fastener Systems, Inc.
640 Snyder Avenue
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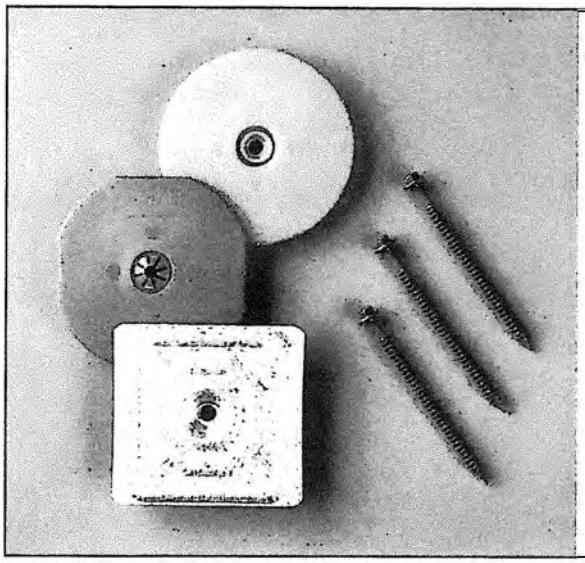
SCHULLER
Roofing Systems

UltraFast Fasteners & Plates



Application

UltraFast Fasteners shall be installed through UltraFast Metal or Locking Plastic Plates at Factory Mutual usage rates and patterns appropriate for the size and type of insulation.

An ITW Buildex Accudrive XL or a standard screwgun with a disengaging clutch should be used to install UltraFast Fasteners. The screwgun should have an RPM range of 1,800 - 2,500 only.

UltraFast must penetrate the metal or wood deck a minimum of ½" (13 mm). UltraFast is fully seated when the head is tight against the metal plate, or snaps into the UltraFast Locking Plastic Plates. UltraFast should not be overdriven as to cause the plate surface to deflect more than 1/16" (1.6 mm). Overdriven fasteners will significantly reduce fastener and plate performance and corrosion resistance and/or strip the deck. Cupped plates, caused by overdriving fasteners, will also damage the membrane. Underdriven fasteners will not distribute the load over the plate properly.

Description

UltraFast Mechanical Fasteners for roof insulation are #12 diameter, hex washer head fasteners with a modified buttress thread form, "X"-point tip and blue Climaseal® Premium Coating.

UltraFast is manufactured from case hardened st el and coated with SPEX, a polymer coating. A second, metal filled, premium, polymer coating called Climaseal is then applied over the SPEX coating.

UltraFast Locking Plastic Plates are blue, 3" (76 mm) round, high strength palyolefin plates with a patented locking feature for use with UltraFast Fasteners.

UltraFast Galvalume Metal Plates are 3" (76 mm) square, premium Galvalume metal plates for use with UltraFast Fasteners.

GlasFast Plastic Plates are red, 3" (76 mm) octagonal, high strength polyolefin plates with a recess cavity for the fastener head. They are strictly for use with Schuller Fiber Glass Roof Insulation.

Use

UltraFast Fasteners and Plates are used to attach roof insulation to either metal (16-22 gauge [1.5 mm - 0.8 mm]), or wood decks. The screw and plate system provides positive attachment and resistance to up-lift forces. UltraFast Mechanical Fasteners for roof insulation are the fasteners approved to install Schuller roof insulation within any Schuller Roofing System Guarantee, either penal sum or NDL.

Advantages

- Hex washer head improves driveability
- Buttress thread design provides maximum pullout values and minimizes fastener pullout
- Thread length permits attachment of insulation through high or low rib of roof deck
- Patented "X"-point provides unsurpassed drilling consistency
- UltraFast exceeds the corrosion resistance standards of Factory Mutual Specification #4470 for Class 1A Insulated Steel Deck Construction, including Windstorm Resistance I-60 and I-90 Classification. UltraFast is also approved for use in Dade County, Florida.

Sizes

Available in a wide range of screw lengths, ranging from 1⅝" (41 mm) for insulation (top flange) thicknesses of ½" to 1⅛" (13 to 29 mm) up to 14" (356 mm) for thicknesses up to 10¼" to 13½" (260 to 343 mm).

Also available in lengths of 3¼" (83 mm) to 14" (356 mm) for insulation (top or bottom flange) thicknesses from 1" to 1¼" (25 to 32 mm) up to 10¼" to 12" (260 to 305 mm).

UltraFast Galvalume Metal Plates – 3" (76 mm) square.

UltraGrip Plastic Plates for roof insulation – orange, 3" (76 mm) round, high strength polyolefin plastic.

Refer to the Material Safety Data Sheet and Product Label prior to using this product.

Same day color match - In house painting

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TRU FAST

#14 HD Stainless Steel Drill Point Fastener

- **Alloy:** Stainless steel (TrimRite*) UNS 42010. The alloy used in HD Drill Point Stainless Steel Fasteners is generically called 14Cr-1ni-1mo. (14% Chrome - 1% Nickel - 1% Molybdenum).

  Compositional requirements meet ASTM 493 alloy S42010.

  TrimRite* stainless is balanced to be fully martensitic in the hardened condition and is magnetic in all conditions.

- **Corrosion Resistance:** ASTM-B117 - 95°F 5% salt (NACl) for 200 hours.

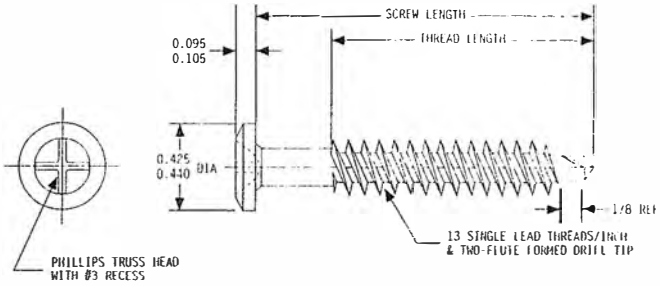
  ASTMB368 (cass test) copper acidified salt spray (light staining allowed) 22 hours.

  Kesternich - DIN 50018 SFW 2.0S 30 cycles

- **Drilling Capability:** RC 50-52 Hardness Self drilling point

  Factory Mutual Systems Approved: JI-1H2A6.AM, JI-0J9A1.AM, JI 1G1A6.AM. 18 ga.- 20 ga. - 22 ga. metal decks, wood decks and reroof steel decks.

- **Uses:** Predominately steel (16 ga. - 22 ga.). Also Factory Mutual approved for wood decks.



Part No.	Screw Length*	Thread Length*	Pieces/Box	Weight/Box
HD-1500-SS	1 1/2	FULL	1000	14#
HD-2000-SS	2	FULL	1000	18#
HD-3000-SS	3	FULL	1000	26#
HD-4000-SS	4	3 7/8	1000	31#
HD-5000-SS	5	3 7/8	1000	42#
HD-6000-SS	6	3 7/8	1000	47#
HD-7000-SS	7	3 7/8	500	27#
HD-8000-SS	8	3 7/8	500	30#
HD-9000-SS	9	3 7/8	500	34#
HD-10000-SS	10	3 7/8	500	38#
HD-11000-SS	11	3 7/8	500	43#
HD-12000-SS	12	3 7/8	500	45#

* Screw length = ± 1/16"
Thread length = ± 1/16"

Pull-out Values in Steel	Pull-out Values in Wood
18 Ga. - 830 lbs. 20 Ga. - 656 lbs. 22 Ga. - 472 lbs. 24 Ga. - 347 lbs.	1/2" Plywood-442 lbs. 3/4" Plywood-495 lbs. Wood Plank 1" Embedment-517 lbs.

- A threaded fastener at root diameter .150 nominal = **4500 lbs. ultimate tensile force.**
- A threaded fastener at root diameter .150 nominal = **3000 lbs. ultimate shear force.**

Approved By:

Factory Mutual System

METRO-DADE

Room Temperature Mechanical Properties:

(wire and small bar 1/2" diameter and less)

Properties	Annealed	Hardened*
02% Yield Strength		
KSi	57	184
MPa	394	1270
Tensile Strength		
KSi	94	260
MPa	650	1800
% Elongation (in 1")	35	14
% Reduction of Area	68	52
Hardness	B87	C50

*1900°F 15 minute aircool plus 400°F hr, AC

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TRU FAST

TP Thread Point Fastener

Head: #3 deep recess Phillips drive provides positive driving.

Threads: 11 twin lead threads per inch. Twin lead threads are two complete sets of threads, one opposite the other. This provides faster drilling, and perpendicular entry into the deck.

Corrosion Protection: TRU-KOTE ™ PC-3 coating meets or exceeds FM4470 corrosion standards and withstands 30 cycles of the Kesternich DIN 50018 SFW 2.0 test.

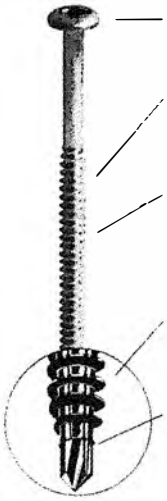
Back-out Resistance - tapered wedge entry: The sharp rolled (Gimlet) point combined with twin lead threads penetrate steel or wood decks actually pulling and forcing the fasteners entry, wedging it tightly to provide back-out resistance. **RESULTS!** No costly call backs.

Thread Point: A sharp rolled (Gimlet) point to drill wood or 20 ga. - 22 ga. steel.

STEEL	WOOD
Pull-out Values	Pull-out Values
20 Ga. - 560 lbs. 22 Ga. - 410 lbs. 24 Ga. - 364 lbs.	1/2" Plywood - 348 lbs. 3/4" Plywood - 585 lbs. Plank 1" Embedment - 353 lbs.

Note: All tests were conducted by an independent testing laboratory. Results of these tests are offered only as a guide and are not guaranteed in any way by **TRU-FAST CORPORATION.** Designated holding values depend on the quality of materials being anchored to **TRU-FAST CORPORATION** recommends that pull-out tests be conducted to verify that the substrate provides adequate pull-out values

DL Drill Point Fastener



Heads: Low profile #3 deep recess Phillips drive provides positive driving.

Threads: 11 deep single lead threads per inch. Universal use with wood, steel or concrete. (Concrete - predrill with a standard 3/16"masonry bit)

Corrosion Protection: TRU-KOTETM PC-3 torque coating meets or exceeds FM4470 corrosion standards. Formulated to enhance back-out resistance and withstand 30 cycles of the Kesternich DIN 50018 SFW 2.0 test.

Back-out Resistance - tapered wedge entry: Exclusive TRU-FAST TAPERED ENTRY action wedges the screw tightly into the deck providing back-out resistance. **RESULTS:** No costly call backs.

Sharp Drill Point: Drill point drills a hole slightly smaller in diameter than the root diameter (shaft of screw in threaded area) to assure full thread depth for increased holding power even in 14 ga. steel.

STEEL	WOOD
Pull-out Values	
Roof Decking 18 Ga. - 801 lbs. 20 Ga. - 598 lbs 22 Ga. - 432 lbs.	3/4" 5 - Ply Plywood 1" Embedment 499 lbs.

Note: *All tests were conducted by an independent testing laboratory Results of these tests are offered only as a guide and are not guaranteed in any way by **TRU-FAST CORPORATION.** Designated holding values depend on the quality of materials being anchored to. **TRU-FAST CORPORATION** recommends that pull-out tests be conducted to verify that the substrate provides adequate pull-out values.*

We put the *fast* in fasteners

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TRU-FAST

Metal & Plastic Stress Plates

Top

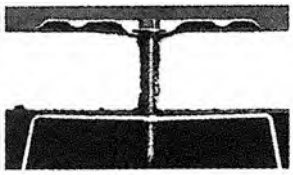
Bottom

Metal Stress Plates
Formed from 26 gauge Galvalume steel. They are equally effective when used for either BUR or single ply roofing systems.

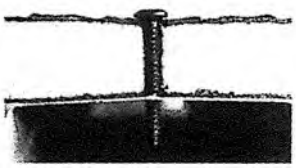
Top

Bottom

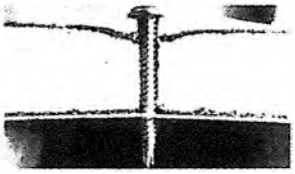
Plastic Stress Plates
High impact resistant Tru-Fast plastic stress plates are for use with virtually all types of insulation board used for roofing systems. however. they should not be used for roofing systems which require direct heat to the plastic plate.



Cross section of installation with a metal stress plate using a Tru-Fast DPH (Drill Point Hex) Screw.



Cross section of installation with a metal stress plate using a Tru-Fast TP (Threaded Point) Screw.



Cross section of installation with a plastic stress plate using a Tru-Fast DP (Drill Point) Screw.

STRESS PLATE SELECTION GUIDE

STRESS PLATE TYPE	ROOFING SYSTEM						
	BUR	SINGLE PLY					
		Adhered Hot Asphalt	Loose Laid Ballasted	Partially Adhered	Totally Adhered	Mechanically Attached	Torch Applied
METAL	✓	✓	✓	✓	✓	✓	✓
PLASTIC			✓	✓	✓	✓	

Specify TRU-FAST Stress Plates with confidence. Both metal and plastic types are FM Approved and mate perfectly with all types of Tru-Fast Screws.

Galvalume Coated Steel Batten Bar

BB-18
BATTEN BAR FLAT

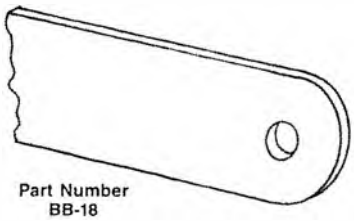
Material:
18 gauge Galvalume Steel without sharp edges.

Dimensions:
.043" (min.) thick x 1" wide x 121" long per piece.

Holes:
1/4" diameter round holes on 12" centers.

Packaged:
50 pieces per tube.

Approx. Shipping Weight:
81 pounds per tube.



Part Number
BB-18

BB-18-R
BATTEN BAR RECESS HOLES

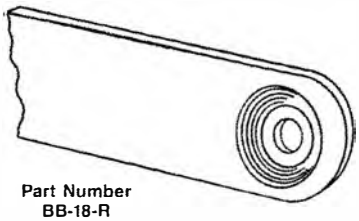
Material:
18 gauge Galvalume Steel without sharp edges.

Dimensions:
.043" (min.) thick x 1" wide x 121" long per piece.

Holes:
1/4" diameter round holes on 12" centers.

Packaged:
50 pieces per tube.

Approx. Shipping Weight:
81 pounds per tube.



Part Number
BB-18-R

We at Tru-Fast believe our customers deserve the best. All Termination Bars are specially manufactured of high quality material using modern methods, equipment and tooling to assure a high quality product.

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West Chester, PA 19382
(800) 232-5060
(610) 692-6658
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TRU FAST

Aluminum Extrusions With Mill Finish

Specifications

TB-50 TERMINATION BAR - With sealant ledge

Material: Specially extruded aluminum without sharp edges.

Dimensions:* .050 thick x 1" wide x 10' long per piece.

Holes: 1/4" x 3/8" slotted holes on 6", 8" or 12" centers.

Packaged: 50 pieces per tube.

Approx. Shipping Weight: 45 pounds per tube.

TB-75 TERMINATION BAR - With sealant ledge

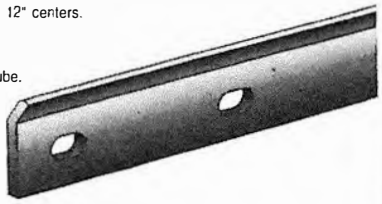
Material: Specially extruded aluminum without sharp edges.

Dimensions:* .075 thick x 1" wide x 10' long per piece.

Holes: 1/4" x 3/8" slotted holes on 6", 8" or 12" centers.

Packaged: 50 pieces per tube.

Approx. Shipping Weight: 51 pounds per tube.



TB-85 TERMINATION BAR - With sealant ledge

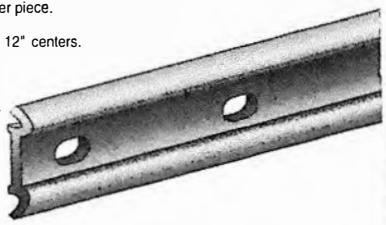
Material: Specially extruded aluminum without sharp edges.

Dimensions:* .085 thick x 1" wide x 10' long per piece.

Holes: 1/4" x 3/8" slotted holes on 6", 8" or 12" centers.

Packaged: 25 pieces per tube.

Approx. Shipping Weight: 43 pounds per tube.



TB-90 TERMINATION BAR - Flat

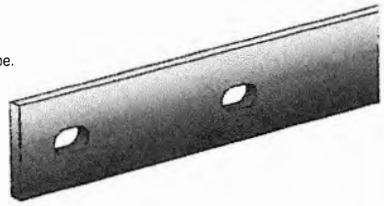
Material: Specially extruded aluminum without sharp edges.

Dimensions:* .090 thick x 1" wide x 10' long per piece.

Holes: 1/4" x 3/8" slotted holes on 6", 8" or 12" centers.

Packaged: 50 pieces per tube.

Approx. Shipping Weight: 57 pounds per tube.



TB-100 TERMINATION BAR - With sealant ledge

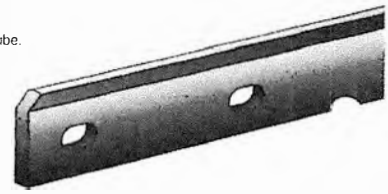
Material: Specially extruded aluminum without sharp edges.

Dimensions:* .100 thick x 1" wide x 10' long per piece.

Holes: 1/4" x 3/8" slotted holes on 6", 8" or 12" centers.

Packaged: 50 pieces per tube.

Approx. Shipping Weight: 68 pounds per tube.



TB-120 TERMINATION BAR - With double flat sealant ledge

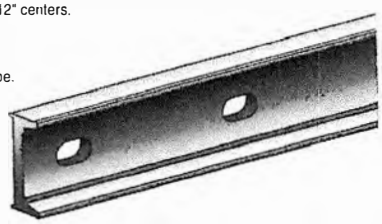
Material: Specially extruded aluminum without sharp edges.

Dimensions:* 1" wide x 10' long per piece.

Holes: 1/4" x 3/8" slotted holes on 6", 8" or 12" centers.

Packaged: 50 pieces per tube.

Approx. Shipping Weight: 60 pounds per tube.



TB-125 TERMINATION BAR - Flat

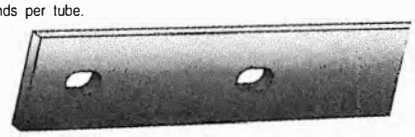
Material: Specially extruded aluminum without sharp edges.

Dimensions:* .125 thick x 1" wide x 10' long per piece.

Holes: 1/4" x 3/8" slotted holes on 6", 8" or 12" centers.

Packaged: 50 pieces per tube.

Approx. Shipping Weight: 78 pounds per tube.



RD-100 RETAINING DRAINBAR -
For use with ballasted or non-ballasted systems

Material: Specially extruded aluminum without sharp edges.

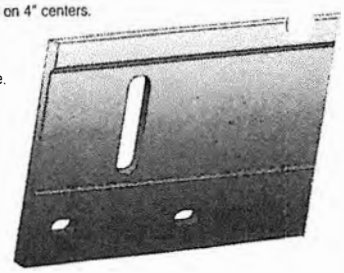
Dimensions:* .100 thick x 3 1/2" wide x 10' long per piece.

Mounting Holes: 1/4" x 3/8" slotted mounting holes on 6" centers.

Drainage Holes: 3/8" x 1-1/2" slotted drain holes on 4" centers.

Packaged: 10 pieces per bundle.

Approx. Shipping Weight: 42 pounds per lube.



Over 3 million painted parts in stock ready for same day shipping

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HAMMER DRIVE ANCHORS

The body of the hammer drive anchor is made from high grade Zamac 3 zinc alloy (which provides you with high pullout values). It is rustproof and designed to virtually eliminate embrittlement which frequently occurs in lower grades of zinc alloy. Good for applications in concrete, brick, block or stone, the hammer drive comes assembled and provides for a quick and easy fastening in medium and light duty jobs. Hammer drives have a mushroom head, are relatively tamperproof, and are available with both the standard zinc plated steel and stainless steel nails depending upon the application requirements.

ORDERING INFORMATION

HAMMER DRIVES WITH ZINC PLATED NAILS

ITEM CODE	ANCHOR DIAMETER & LENGTH	HOLE SIZE	GRIP RANGE	BOX / CTN QUANTITY	WEIGHT (LBS.) PER 100
H3107	3/16" x 7/8"	3/16"	0-1/8"	100/1000	1.15
H1406	1/4" x 3/4"	1/4"	0-1/8"	100/1000	1.70
H1410	1/4" x 1"	1/4"	1/8" - 1/4"	100/1000	2.00
H1412	1/4" x 1 1/4"	1/4"	1/4" - 1/2"	100/1000	2.35
H1414	1/4" x 1 1/2"	1/4"	1/2" - 3/4"	100/1000	2.65
H1420	1/4" x 2"	1/4"	3/4" - 1 1/4"	100/1000	3.35

HAMMER DRIVES WITH STAINLESS STEEL NAILS

ITEM CODE	ANCHOR DIAMETER & LENGTH	HOLE SIZE	GRIP RANGE	BOX / CTN QUANTITY	WEIGHT (LBS.) PER 100
H1406S	1/4" x 3/4"	1/4"	0 - 1/8"	100/1000	1.64
H1410S	1/4" x 1"	1/4"	1/8" - 1/4"	100/1000	2.00
H1412S	1/4" x 1 1/4"	1/4"	1/4" - 1/2"	100/1000	2.35
H1414S	1/4" x 1 1/2"	1/4"	1/2" - 3/4"	100/1000	2.65
H1420S	1/4" x 2"	1/4"	3/4" - 1 1/4"	100/1000	3.35

GSA Spec. FF-S-325, Group V, Type 2, Class 3

FSI STOCKS COMPLETE LINE OF FIRESTONE FASTENERS AND TERM BAR

FSI ALSO STOCKS NYLON NAIL INS FROM 1" TO 6"

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West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

Peel Rivet

TPR Fasteners & Installation Systems

A Fastener that won't Back Out

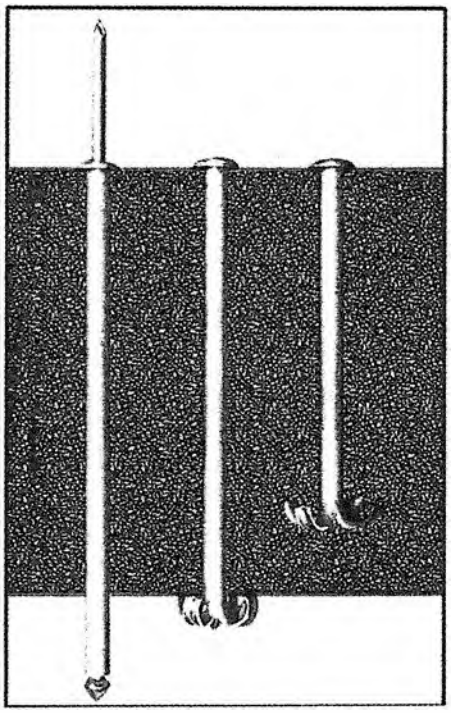
The new peel rivet, TPR*, offers a unique solution to the problems associated with the mechanical attachment of commercial roofing materials and systems. Designed to curl tightly either inside or underneath the roof deck, the TPR's fingers create a gripping area four times wider than the fastener itself. Unlike threaded fasteners which depend on their thread width for holding p ; the TPR has no threads and ca back out . . . ever.

Superior Corrosion Resistance

The TPR is made from an aircraft-grade, high magnesium aluminum alloy that can't rust and is extremely resistant to corrosion, even in the harshest environments. That's why we are able to warrant the TPR for 15 years against corrosion, as well as back-out.

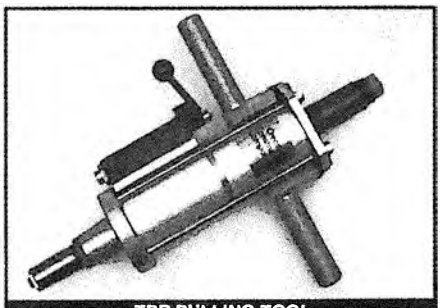
A Fastener for all Systems

The TPR can be used to secure virtually all roofing systems including concrete, wood and metal. It is particularly well suited for lightweight decks where conventional threaded fasteners can't achieve sufficient pull-out values. And because the TPR is automatically set with even compression, it cannot be overdriven.



The TPR is installed using two pneumatic tools — a Driving Tool for driving the fastener into the deck — and a Pulling Tool for setting the rivet:

TPR DRIVING TOOL



TPR PULLING TOOL

TPR FASTENERS & PLATES			TPR TOOLS & ACCESSORIES		PULL TEST DATA	
Item #	Description		Item #	Description	Deck Type	Lbs. Pull
TPR-1 1/2	1 1/2"	Peel Rivet	TPR-DT	Driving Tool	22 ga metal	766
TPR-2	2"	Peel Rivet	TPR-PT	Pulling Tool		
TPR-3	3"	Peel Rivet			26 ga metal	618
TPR-4	4"	Peel Rivet	TPR-MC	Mandrel Container		
TPR-5	5"	Peel Rivet			1/2" plywood	565
TPR-6	6"	Peel Rivet	Emglo	Model #D8GA17P		
TPR-7	7"	Peel Rivet		Compressor recommended by SPC	Tectum (underside)	374
TPR-8	8"	Peel Rivet				
TPR-9	9"	Peel Rivet			Tectum (inside)	335
TPR-10	10"	Peel Rivet		Critical performance factors are delivery of minimum 110 psi and 15.3 cfm.	Gypsum (underside)	507
SP-2	2"	Membrane Plate			Gypsum (inside)	415
SP-3	3"	Insulation Plate			Loadmaster std.	605

FSI specializes in solving problems

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
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Simplex Nails

Regular Round Head

Ring or Smooth Shank

Nail Length	Shank Size	Head Diameter
1/2"	12 ga.	1"
5/8"	12 ga.	1"
3/4"	12 ga.	1"
7/8"	12 ga.	1"
1"	12 ga.	1"
1 1/4"	12 ga.	1"
1 1/2"	11 ga.	1"
1 3/4"	11 ga.	1"
2"	11 ga.	1"
2 1/2"	11 ga.	1"
3"	11 ga.	1"

Uses: Fastener for roofing felt, BUR, insulation, & house wraps

Insulation Round Head

Ring or Smooth Shank

3"	9 ga.	1"
3 1/2"	9 ga.	1"
4"	9 ga.	1"
5"	9 ga.	1"
6"	8 ga.	1"
7"	8 ga.	1"
8"	8 ga.	1"

Uses: BUR applications and other applications where thick insulations are attached to wood substrates. Available in ring shank or smooth shank.

Masonry Round Head Fluted Shank

3/4"	9 ga.	1"
1"	9 ga.	1"
1 1/4"	9 ga.	1"
1 1/2"	9 ga.	1"
1 3/4"	9 ga	1"
2"-6"	9 ga	1"

Uses: Masonry fasteners drive easily into concrete or mortar joints. Used for applying flashing to parapet or curtain walls also used for water proofing applications in block foundations below grade.

Gypsum Deck Nail

1 1/2"	12 ga.	1"
1 3/4"	12 ga.	1"
2"	12 ga.	1"

Uses: Used for fastening systems in wet gypsum decks. Unique four sided cut nail design increases holding power in gypsum decks.

Square Cap Nail

3/4"	12 ga.	1"
7/8"	12 ga.	1"
1"	12 ga.	1"
1 1/4"	12 ga.	1"
1 1/2"	12 ga.	1"
1 3/4"	12 ga.	1"

Uses: For attaching felt and insulation to roof decks.

* Approximate Count Per LB

Plex-Cap® Plastic Cap Nails

Ring Shank

Nail Length	Shank Size	Head Diameter
3/4"	12 1/2 ga.	1"
7/8"	12 1/2ga.	1"
1"	12 1/2 ga.	1"
1 1/4"	12 1/2 ga.	1"
1 1/2"	12 1/2 ga.	1"
1 3/4"	12 1/2 ga.	1"
2"	12 ga.	1"
2 1/2"	12 ga.	1"
3"	12 ga.	1"

Uses: For fastening applications of roofing felt, insulation, house wraps, & polyfilm. Manufactured from high strength polymer plastic.

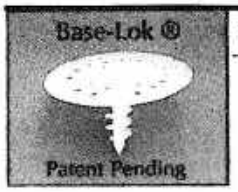
Tube - Lok ®

Patented

Nail Length	Tube Dia	Head Diameter
1"	.108	1"
1 3/4"	.108	1"
2 1/2"	.108	1"
3"	.108	1"
3 1/2"	.108	1"
4 1/2"	.108	1"
5 1/2"	.108	1"
6 1/2"	.108	1"

Uses: Effective attachment of roofing products to low and steep slope decks fabricated from gypsum, cellular and aggregate lightweight concrete, cementitious wood fiber and other lightweight deck assemblies.

Base-Lok ®



1 3/4"

Uses: The Simplex Base-Lok is used to secure base sheet to aggregate light-weight concrete, cellular lightweight concrete decks. Easy to install one piece fastener manufactured from engineered plastic.

Zanchors Drive Nail Masonry Anchors

	Dia.
7/8"	3/16"
1"	1/4"
1 1/4"	1/4"
1 1/2"	1/4"
1 3/4"	1/4"
2"	1/4"

Uses: For attaching items to concrete, block, brick, and stone. Pins available in carbon steel and stainless steel.

Galvalume Disc 2" & 3"

Uses: The Simplex disc is used in conjunction with other Simplex products to increase the rupture values of insulation and base sheets. This product is manufactured from galvalume coated steel to provide top quality corrosion resistance.

* Approximate Count Per LB

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NAILS

ALUMINUM TRIM NAILS

1 LB. BOXES AND 1/4 LB. BOXES

LENGTH	SHANK DIA.	HEAD DIA.	APPROX. COUNT/LB.
1 "	.099	3/16"	1320
1¼"	.099	3/16"	981

STAINLESS STEEL TRIM NAILS

1 LB. BOXES AND 1/4 LB. BOXES

LENGTH	SHANK DIA.	HEAD DIA.	APPROX. COUNT/LB.
1 "	.072	11/64"	795
1¼"	.072	11/64"	649

NOTE

ALL TRIM NAILS AVAILABLE IN MANY COLORS, OTHER SIZES AND SPECIAL PACKAGING

ALUMINUM SIDING NAILS

1 LB. BOXES AND BULK

LENGTH	SHANK DIA.	HEAD DIA.	APPROX. COUNT/LB.
1 "	.120	3/8"	810
1¼"	.120	3/8"	686
1½"	.120	3/8"	577
1¾"	.120	3/8"	497
2 "	.120	3/8"	437
2¼"	.120	3/8"	389
2½"	.120	3/8"	360

AVAILABLE PLAIN SHANK AND SCREW SHANK

WOOD SIDING NAILS

T-304 STAINLESS STEEL

RING BARB • CHECKERED-SINK HD.

NAIL LENGTHS AND NUMBERS PER POUND

SIZE OR EQUIV.	Stainless Steel Wood Siding Nails		Aluminum Wood Siding Nails	
	Length (Inches)	Nails Per Pound	Length (Inches)	Nails Per Pound
6d	1⅞	270	1⅞	566
7d	2⅛	227	2⅛	468
8d	2⅜	201	2⅜	319
10d	2⅞	140	2⅞	215
16d	3½	70	3¼	120

- BULK PACKAGED IN 50 LB. BOXES.
- AVAILABLE PAINTED REDWOOD FOR REDWOOD SIDING.
- AVAILABLE PAINTED TAN FOR CEDAR SIDING.
- AVAILABLE IN MANY OTHER COLORS.
- RECOMMENDED BY THE CALIFORNIA REDWOOD ASSOCIATION

COMMERCIAL BRONZE
COPPER
SILICON BRONZE
304 STAINLESS
316 STAINLESS

THREADED NAILS

FLAT HEAD

DIAMOND POINT · SCREW SHANK · RING BARB

Penny Size	Length	Gauge	Shank Dia.	SS Head Dia.	Bronze & Monel Head Dia.	Approx. Count/Lb
—	⅝	16	.065	11/64	13/64	1480
—	¾	16	.065	11/64	13/64	1175
—	¾	15	.072	11/64	13/64	1050
—	¾	14	.083	13/64	15/64	757
—	¾	12	.109	1/4	9/32	416
—	⅞	14	.083	13/64	15/64	657
—	⅞	12	.109	1/4	9/32	373
2d	1	15	.072	11/64	13/64	807
—	1	14	.083	13/64	15/64	622
—	1	12	.109	1/4	9/32	355
3d	1¼	14	.083	13/64	15/64	473
—	1¼	12	.109	1/4	9/32	272
—	1¼	10	.135	9/32	11/32	147
—	1½	14	.083	13/64	15/64	413
4d	1½	12	.109	1/4	9/32	228
—	1½	10	.135	9/32	11/32	148
5d	1¾	12	.109	1/4	9/32	193
—	1¾	10	.135	9/32	11/32	130
—	2	12	.109	1/4	9/32	175
6d	2	11	.120	17/64	19/64	144
—	2	10	.135	9/32	11/32	114
—	2	8	.165	11/32	13/32	75
—	2¼	12	.109	1/4	9/32	165
—	2¼	10	.135	9/32	11/32	94
—	2¼	8	.165	11/32	13/32	65
—	2½	12	.109	1/4	9/32	138
8d	2½	10	.134	9/32	11/32	94
—	2½	8	.165	11/32	13/32	62
—	3	10	.135	9/32	11/32	79
10d	3	9	.148	5/16	3/8	67
—	3	8	.165	11/32	13/32	51
—	3	6	.203	13/32	15/32	33
16d	3½	8	.165	11/32	13/32	44
20d	4	6	.203	13/32	15/32	25

COMMERCIAL BRONZE
COPPER
SILICON BRONZE
304 STAINLESS
316 STAINLESS

COMMON NAILS

PLAIN SHANK · FLAT HEAD · DIAMOND POINT

Penny Size	Length	Gauge	Shank Dia.	Head Dia.	Approx. Count/Lb.
2d	1	15	.072	11/64	807
3d	1¼	14	.083	13/64	473
4d	1½	12	.109	1/4	228
5d	1¾	12	.109	1/4	193
6d	2	11	.120	17/64	144
8d	2½	10	.134	9/32	94
10d	3	9	.148	5/16	67
16d	3½	8	.165	11/32	44
20d	4	6	.203	13/32	25
30d	4½	5	.220	7/16	18
40d	5	4	.238	15/32	14
60d	6	4	.284	17/32	13

THREADED COMMON NAILS HOLD LIKE WOOD SCREWS AT A COST ONLY SLIGHTLY GREATER THAN PLAIN SHANK NAILS

Communication is the key to FSI's success

Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
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FAX (610) 692-8151

Stainless Steel & Copper Alloy Nails & Screws

FASTENER PACKAGING

All Swan Secure Products are put up in containers befitting the high quality of their contents.

NAIL PRODUCTS:

- 25 Lb and 50 Lb Corrugated Bulk Cartons
- 5 Lb Corrugated Boxes in 10-Box Masters
- 1 Lb Corrugated Boxes in 30-Box Masters
- 1 Lb Clear Plastic Reusable Boxes with "Living Hinge"

SCREW PRODUCTS:

- Bulk Packed by Piece-Count in Corrugated Cartons Averaging 25 Lbs
- 1 Lb Corrugated Boxes in 30-Box Masters
- 100 Piece Count Boxes in 30-Box Masters
- 1 Lb or 100 Pieces in Clear Plastic Reusable Boxes with "Living Hinge"

PILOT HOLE GUIDE FOR ANNULAR THREAD NAILS

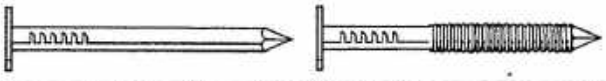
Though pilot holes aren't always necessary, bent nails and split wood can be reduced to a minimum or eliminated by pre-drilling in accordance with this guide. Recommended pilot hole depth is three-fourths the length of the nail used.

Nail Gauge	Nominal Diameter (Before Threading)	Hard Wood Pilot Hole	Hard Wood Drill No.	Soft Wood Pilot Hole	Soft Wood Drill No.
14	.083	.076	48	.059	53
12	.109	.101	38	.076	48
10	.134	.120	31	.089	43
8	.165	.149	25	.120	31

Swan Secure Roofing Nails (Slating Nails)

Copper or 304 Stainless Steel

- Large Flat Head • Smooth Shank
- Diamond Point



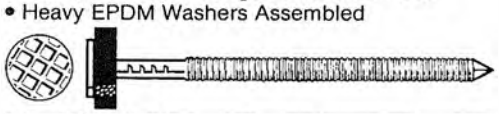
Length	Gauge	Shank Dia.	Copper Head Dia.	Copper Approx. Count/Lb.	Copper List Price/Lb.	304 Stainless Head Dia.	304 Stainless Approx. Count/Lb.	304 Stainless List Price/Lb.
¾	12	.109	21/64	360	5.25	5/16	380	8.50
1	12	.109	21/64	288	5.25	5/16	348	8.20
1¼	12	.109	21/64	236	5.25	5/16	255	8.10
1½	12	.109	21/64	202	5.25	5/16	218	8.05
1¾	12	.109	21/64	176	5.25	5/16	189	8.00
2	12	.109	21/64	156	5.25	5/16	170	8.00
¾	11	.120	3/8	302	5.25	11/32	323	8.20
1	11	.120	3/8	229	5.25	11/32	244	8.10
1¼	11	.120	3/8	187	5.25	11/32	199	8.00
1½	11	.120	3/8	155	5.25	11/32	170	7.95
1¾	11	.120	3/8	139	5.25	11/32	149	7.95
2	11	.120	3/8	124	5.25	11/32	136	7.95
1	10	.134	7/16	187	5.25	3/8	212	7.95
1¼	10	.134	7/16	147	5.25	3/8	166	7.95
1½	10	.134	7/16	123	5.25	3/8	139	7.95
1¾	10	.134	7/16	112	5.25	3/8	126	7.90
2	10	.134	7/16	93	5.25	3/8	105	7.80
2½	10	.134	7/16	81	5.25	3/8	91	7.80
3	10	.134	7/16	67	5.25	3/8	78	7.80

- Annular threaded roofing nails provide superior holding power in wood and plywood. Add 5% to smooth shank net price for threading.
- To determine correct nail length to use add one inch to twice the thickness of slates.

Swan Secure Washered Roofing Nails

304 Stainless Steel

- Annular Thread • Large Checkered Head
- Heavy EPDM Washers Assembled



Length	Gauge	Shank Dia.	Head Dia.	Approx. Count/Lb.	List Price/Lb.
2	10	.134	3/8	98	9.65
2½	10	.134	3/8	83	9.55
3	10	.134	3/8	72	9.45
3½	10	.134	3/8	62	9.30
4	10	.134	3/8	53	9.00

- Best for application of asphalt panel roof systems particularly in corrosive environments and seaside installations.
- Also recommended for longest life from galvanized sheet metal roofing and siding.
- Standard washer dimensions: 9/16" O.D. x 1/8" thick.
- Annular ring threads and large resilient EPDM washers combine to provide permanent, weathertight fastening.

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Stainless Steel & Cooper Alloy Nails & Screws

Swan "Sea-Cure" Nails For Marine Service

304 Stainless or 316 Stainless Steel
Commercial or Silicon Bronze, Monel

- Large Flat Head • Annular Ring Thread
- Diamond Point

Length	Gauge	Shank Diameter	Head Diameter	Approx. Count/Lb. Stainless	Approx. Count/Lb. Copper Alloy	List Price/Lb. 304 Stainless	List Price/Lb. 316 Stainless	List Price/Lb. Com'l Bronze	List Price/Lb. Silicon Bronze	List Price/Lb. Monel
¾	15	.072	3/16	1050	913	9.75	11.20	—	7.60	—
¾	14	.083	7/32	757	664	9.05	10.50	7.15	7.40	14.50
⅞	14	.083	7/32	657	617	8.90	10.30	7.10	7.35	14.50
1	15	.072	3/16	807	689	9.10	10.25	—	7.40	—
1	14	.083	7/32	622	536	8.85	10.00	7.00	7.25	14.50
1	12	.109	17/64	364	303	8.45	9.90	6.85	7.10	14.00
1¼	14	.083	7/32	473	424	8.70	9.95	6.90	7.15	14.50
1¼	13	.095	9/32	357	324	8.60	9.80	6.85	7.15	—
1¼	12	.109	17/64	272	245	8.35	9.60	6.80	7.05	14.00
1½	14	.083	7/32	413	374	8.65	9.90	6.90	7.10	14.50
1½	12	.109	17/64	228	204	8.30	9.55	6.75	7.00	14.00
1½	10	.134	3/8	147	132	8.20	9.40	6.70	6.90	13.75
1¾	12	.109	17/64	193	179	8.30	9.50	6.70	6.95	14.00
1¾	10	.134	3/8	130	118	8.15	9.35	6.85	6.90	13.75
2	12	.109	17/64	175	161	8.25	9.50	6.70	6.95	14.00
2	10	.134	3/8	114	104	8.10	9.30	6.65	6.90	13.75
2	8	.165	7/16	75	65	8.05	9.30	6.65	6.90	13.50
2½	12	.109	17/64	138	128	8.25	9.50	6.65	6.90	14.00
2½	10	.134	3/8	94	83	8.05	9.30	6.65	6.85	13.75
2½	8	.165	7/16	62	54	7.90	9.10	6.65	6.85	13.50
3	10	.134	3/8	79	71	8.05	9.30	6.65	6.85	13.75
3	9	.148	3/8	67	58	7.95	9.15	—	6.85	—
3	8	.165	7/16	51	45	7.90	9.10	6.60	6.85	13.50
3	6	.203	1/2	34	31	7.90	9.10	—	6.85	13.50
3¼	9	.148	3/8	60	52	7.95	9.15	—	6.85	—
3¼	8	.165	7/16	48	43	7.90	9.10	6.60	6.85	13.50
3¼	6	.203	1/2	31	27	7.90	9.10	6.60	6.85	13.50
3½	8	.165	7/16	44	40	7.85	9.05	6.60	6.85	13.50
3½	6	.203	1/2	29	26	7.85	9.05	—	6.85	13.50
4	6	.203	1/2	25	23	7.65	8.90	—	6.85	13.50
4	4	.238	9/16	18	17	7.65	8.90	—	6.85	—
4½	6	.203	1/2	22	20	7.65	8.90	—	6.85	13.50
4½	4	.238	9/16	16	15	7.65	8.90	—	6.85	—
5	6	.203	1/2	19	18	7.65	8.90	—	6.85	13.50
5	4	.238	9/16	15	14	7.65	8.90	—	6.85	—
6	4	.238	9/16	12	11	7.65	8.90	—	6.85	—

- Large bearing surface under heads holds planking securely to framing members on new construction and re-nailing projects.
- Annular Ring "Barbed" Threads provide maximum holding power and resistance to nail head popping.
- Specify Type 316 Stainless Steel to minimize discoloration of heads and paint bleed-through.
- Silicon Bronze offers best resistance to stress-corrision cracking under heads in salt water service.

Same day color match - In house painting

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Stainless Steel & Copper Alloy Nails & Screws

Wood Siding Nails

304 Stainless or 316 Stainless Steel
- Small Flat Head • Blunt Diamond Point

Penny Size	Length	Gauge	Shank Dia.	Head Dia.	Approx. Count/Lb.
3d	1¼	14	.083	5/32	495
4d	1½	14	.083	5/32	398
5d	1¾	14	.083	5/32	354
6d	2	13	.095	5/32	245
7d	2¼	13	.095	5/32	215
8d	2½	13	.095	5/32	196
10d	3	12	.109	7/32	120
16d	3½	11	.120	1/4	88

Shake & Shingle Nails

304 Stainless Steel
- Slender Shank • Annular Thread

Penny Size	Length	Gauge	Shank Dia.	Head Dia.	Approx. Count/Lb.
3d	1¼	14	.083	7/32	470
4d	1½	14	.083	7/32	394
5d	1¾	14	.083	7/32	337
6d	2	13	.095	7/32	237
8d	2½	13	.095	7/32	192

- Slender shanks minimize splitting.
- 7/32" Diameter flat heads provide ample bearing surface to firmly secure shakes & shingles of all types including hand splits.
- Annular ring threads insure against wind damage, nail-head popping.

Swan Secure Stainless Steel "Un-Commons"

304 Stainless or 316 Stainless Steel
- Smooth Shank or Threaded
- Flat Head
- Diamond Point

Penny Size	Length	Gauge	Shank Dia.	Head Dia.	Approx. Count/Lb.	List Price 304 Stainless Steel Smooth	List Price 304 Stainless Steel Threaded	Per Pound 316 Stainless Steel Smooth	Per Pound 316 Stainless Steel Threaded
2d	1	15	.072	3/16	807	8.60	9.10	9.80	10.25
3d	1¼	14	.083	7/32	473	8.20	8.70	9.50	9.95
4d	1½	12	.109	1/4	228	7.80	8.30	9.10	9.55
5d	1¾	12	.109	1/4	193	7.80	8.30	9.05	9.50
6d	2	11	.120	17/64	144	7.60	8.20	8.90	9.40
7d	2¼	11	.120	17/64	133	7.60	8.20	8.90	9.40
8d	2½	10	.134	9/32	94	7.55	8.05	8.80	9.30
10d	3	9	.148	5/16	67	7.45	7.95	8.70	9.15
12d	3¼	9	.148	5/16	60	7.45	7.95	8.65	9.15
16d	3½	8	.165	11/32	44	7.35	7.85	8.55	9.05
20d	4	6	.203	7/16	25	7.15	7.65	8.40	8.90
30d	4½	6	.203	7/16	22	7.15	7.65	8.40	8.90
40d	5	6	.203	7/16	19	7.15	7.65	8.40	8.90
60d	6	4	.238	15/32	12	7.15	7.65	8.40	8.90

- Our all-around general purpose structural nails have the heft to penetrate even the toughest seasoned lumber.
- Recommended first choice for construction of permanent wood foundations by the American Plywood Association.
- Available in Smooth Shank, Annular Ring or Screw Shank. Specify Annular Ring for greatest pullout resistance. Use Screw Shank nails for end grain and shear loading applications.

Fiber Cement Siding Nails

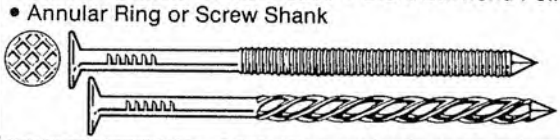
316 Stainless Steel
- Annular Ring Thread • Sharp Diamond Point
- Checker Pattern Head

Length	Gauge	Shank Dia.	Head Dia.	Approx. Count/Lb.
1¼	11	.120	11/32	199
1½	11	.120	9/32	179
2	11	.120	9/32	144
2½	11	.120	9/32	115

- Produced expressly for application of various lap and panel siding materials fabricated of fiber cement composites.
- 1¼" roof head nails for blind nailing lap siding. Other sizes for face nailing siding planks or panels.
- Extra sharp point for optimum driveability.
- Checkered heads diffract sunlight, accept surface finishes.
- 316 Stainless Steel offers ultimate corrosion resistance.

Swan Secure Decking Nails For Pressure Treated Lumber

304 Stainless or 316 Stainless Steel
- Checker Pattern Sinker Heads • Blunt Diamond Point
- Annular Ring or Screw Shank



Penny Size	Length	Gauge	Shank Dia.	Head Dia.	Approx. Count/Lb.	List Price Per Lb. 304 SS	List Price Per Lb. 316 SS
8d	2⅜	11	.120	1/4	126	8.20	9.40
10d	2⅞	10	.134	17/64	85	8.10	9.30
16d	3¼	9	.148	5/16	61	8.00	9.20
20d	3¾	8	.165	11/32	43	7.85	9.05

- Sinker heads drive flush with work surface. Checker pattern blends with wood grain.
- Specify Ring Shank for greatest pull-out resistance in less stable materials like unseasoned pressure treated boards.
- Use Screw Shank Nails for easier driving in harder seasoned wood.

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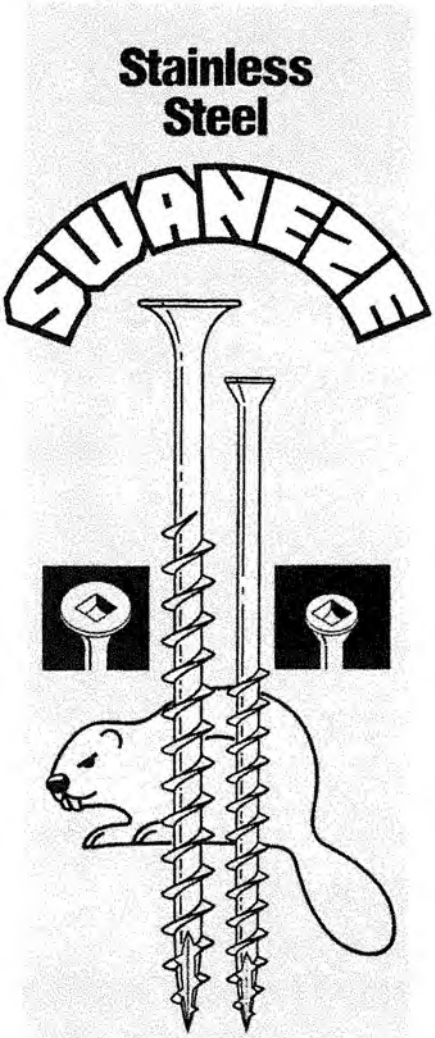
Stainless Steel & Copper Alloy Nails & Screws



Wood Screws For Outdoor Construction
WITH THE
"Beaver Bite" Point

Here's a very good fastener for wood joints exposed to the weather. Conceived and engineered expressly for building **cedar and redwood decks, SWANEZE** are equally well suited for any number of outdoor construction projects which call for superior corrosion resistance combined with maximum holding power and ease of use.

DESIGN FEATURES

- Self-countersinking **bugle head** sets flush with work surface
- **Square Drive** recess is deep and cleanly formed — eliminates driver bit cam-out
- **New and improved "Beaver Bite" point.** Precision machined self-drilling point drills its way into all types of wood by removing material during penetration
- Self-tapping **coarse threads** are uniformly sharp — require less driving torque
- **Coated** with non-stick clear, dry lubricating film to enhance driveability

CORROSION RESISTANCE

SWANEZE are manufactured of solid AISI Grade 305 Stainless Steel for superior corrosion resistance under all conditions. Grade 305 contains the highest nickel content (10.5-13.0%) of the austenitic stainless steels considered to be in the 18-chromium 8-nickel family. It is completely resistant to tannic acid and other extractives common to redwood and cedar lumber, and will not discolor or stain the wood surrounding screw heads.

STRENGTH

Stainless steel screws are **STRONG!** Typical mechanical properties for Grade 305 are 85,000 psi tensile and 40,000 psi yield strength — more than adequate for wood construction applications.

DRIVING

SWANEZE are designed to be driven by electric-powered screw gun or by hand using a standard size **square bit** or driver. Use size #2 drive for all bugle head screws and size #1 drive for all finishing screws.

SWANEZE can be driven without predrilling in cedar, redwood and softer woods although pilto holes are recommended in all materials to minimize splitting.

IMPORTANT: When screw gun is used, drive **SWANEZE** slowly at first and gradually increase speed until screw heads set flush consistently. Driving at top speed may result in stripping of square drive recess.

FINISH WORK AND TRIM

SWANEZE FINISHING SCREWS combine the best features of our original screws with **small deeply countersunk heads** and **slender shanks** for finish work and trim applications.

Unobtrusive small trim heads are easily driven **flush** with or **below** the work surface.

- Ideal for fastening **corner boards, facia,** and **mitred ends** on quality **wood siding** jobs.
- Use in traditional toenailing-type applications such as affixing **balusters** and **handrails.**
- Use on **decking** jobs when screw heads need to be inconspicuous or concealed.

NOTE: Predrilling is a must near board ends to prevent splits.

APPLICATIONS

Specify **SWANEZE** for these wood construction applications:

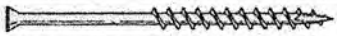
- Decks
- Fences
- Stairs & Railings
- House Trim
- Outdoor Furniture
- Window Boxes & Planters
- Piers & Docks
- Boat Repair
- Lattice

ORIGINAL SWANEZE #2 Square Drive

Length	Screw Size	Head Dia.	Carton Qty.	Approx. Carton Wt.	Approx. Count/Lb.
1¼	#6	.344	5,000	22 LB.	243
1⅝	#6	.344	4,000	22 LB.	195
1⅝*	#8	.344	4,000	28 LB.	150
2*	#8	.344	3,000	25 LB.	128
2¼	#8	.344	3,000	29 LB.	109
2½	#8	.344	2,000	21 LB.	102
2½*	#10	.344	2,000	26 LB.	82
3*	#10	.344	1,500	24 LB.	68
3½*	#10	.344	1,000	19 LB.	58

ORIGINAL SWANEZE #3 Square Drive

Length	Screw Size	Head Dia.	Carton Qty.	Approx. Carton Wt.	Approx. Count/Lb.
4*	#12	.430	1,000	28 LB.	38



SWANEZE FINISHING SCREWS #1 Square Drive

Length	Screw Size	Head Dia.	Carton Qty.	Approx. Carton Wt.	Approx. Count/Lb.
1	#7	.230	5,000	17 LB.	316
1⅝*	#7	.230	4,000	22 LB.	195
2¼*	#7	.230	3,000	23 LB.	138
3*	#7	.230	2,000	22 LB.	98

* Starred sizes available in AISI Type 316 Stainless Steel for maximum corrosion resistance. 316 screws have plain sharp points.

BITS

Square Drive Bits available for both standard screw guns and power drywall drivers. Screw gun bits 1-15/16" long, drywall gun insert bits 1" long. Both have 1/4" hex shank.

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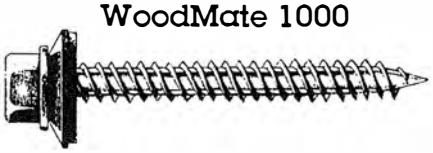
The Atlas family of WoodMate metal-to-wood fasteners offers builders a variety of shanks, threads and heads to meet various performance and cost considerations. WoodMate fasteners are available in five lengths through three inches, each with a high, sharp cornered head for fast, positive driving. An Oxyseal® polymer coating is available to supplement the standard zinc-and-chromate finish, and heads can be painted to match any color panels. The WoodMate is also available with the ColorMate injection-molded nylon head that prevents corrosion and seals without a washer. Bonded and two-piece washers are available to seal WoodMate fasteners with metal heads.

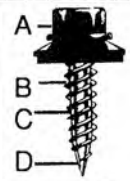
Mechanical Specifications

WoodMate 1000

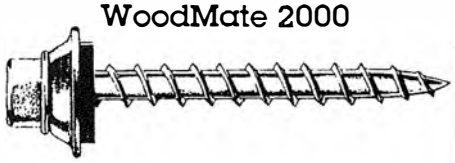


Plated Steel #9-16 Hex Washer Head (HWH)

Mechanical Properties		Dimensional Properties	
Minimum Tensile Strength:	1390 lbs.	A - Head, Across Flats:	.244"-.250"
Minimum Torsional Strength:	39 in.-lbs.	B - Major Diameter:	.175"-.180"
Minimum Shear Strength:	960 lbs.	C - Minor Diameter:	.121"-.127"
		Stress Area:	.01068 in.²
		D - Type A Sharp Point	



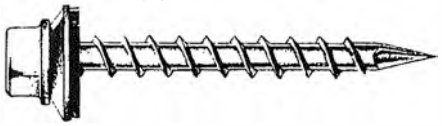
WoodMate 2000



Plated Steel #10-9 Hex Washer Head (HWH)

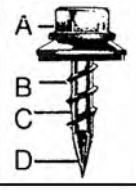
Mechanical Properties		Dimensional Properties	
Minimum Tensile Strength:	890 lbs.	A - Head, Across Flats:	.244"-.250"
Minimum Torsional Strength:	39 in.-lbs.	B - Major Diameter:	.186"-.191"
Minimum Shear Strength:	550 lbs.	C - Minor Diameter:	.116"-.122"
		Stress Area:	.00500 in.²
		D- Type A Sharp Point	

WoodMate 3000



Plated Steel #10-9 Hex Washer Head (HWH)

Mechanical Properties		Dimensional Properties	
Minimum Tensile Strength:	890 lbs.	A - Head, Across Flats:	.244"-.250"
Minimum Torsional Strength:	39 in.-lbs.	B - Major Diameter:	.186"-.191"
Minimum Shear Strength:	550 lbs.	C - Minor Diameter:	.116"-.122"
		Stress Area:	.00500 in.²
		D - RICO Self-Drilling Point	



ALL ABOVE IN STOCK - PAINTED

Fastener Systems, Inc.
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(800) 232-5060
(610) 692-6658
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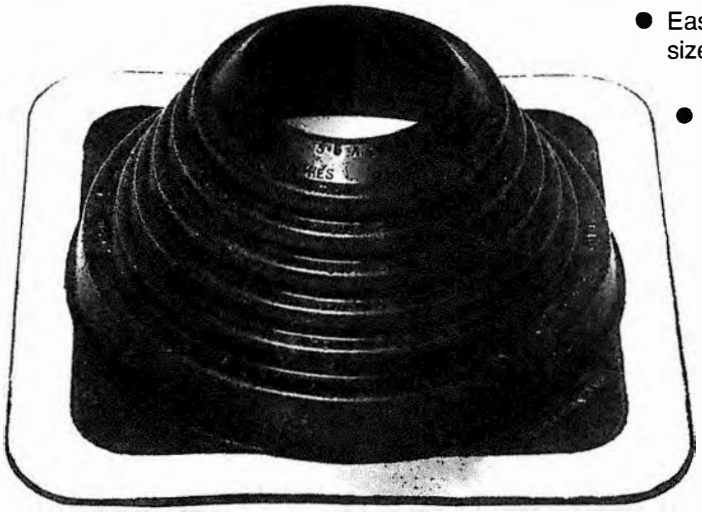
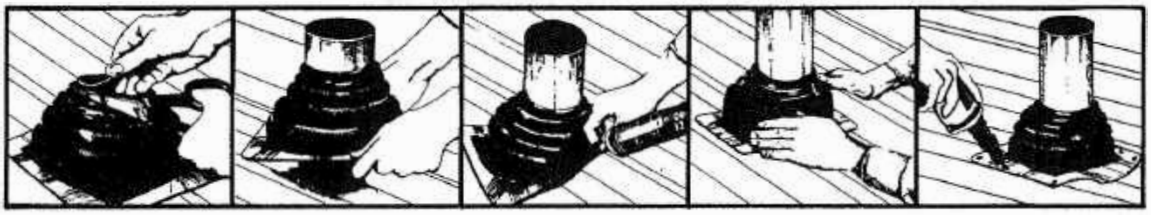
MASTER FLASH™

makes pipe flashing simple



- Easily customized pipe opening. Ten different sizes fit pipes $^1/_4$" to 26".
- Tough, ultraviolet resistant EDPM or Silicone.
- Square flange design adapts to any roofing material. Seals tightly with silicone sealant and standard roofing fasteners.
- Aluminum base bends to form a perfect seal with any contour, surface irregularities or roof pitch.

Quick Installation Means Higher Profits.



Step One TRIM. Trim opening to 20% smaller than pipe diameter.

Step Two SLIDE. Slide down over pipe.

Step Three SEAL. Apply urethane/silicone sealant between MASTER FLASH and roofing.

Step Four FORM. Press down, bending flashing to fit irregularities. Use large slot screwdriver to press into tight angles.

Step Five FASTEN. Use fasteners to finish sealing.

Master Flash Sizing Chart

MASTER FLASH Number	Carton Quantity	Carton Weight	Pipe Size	Base Dimension	Opening Diameter
1	15	2.5	¼-2"	4½"	Closed
2	15	4.5	1¼-3"	6"	⅞"
3	15	7.5	¼-4"	8"	Closed
4	10	8.0	3-6"	10"	2½"
5	10	9.5	4-7"	11"	3½"
6	10	12.0	5-9"	12"	4"
7	10	15.5	6-11"	14"	5"
8	5	12.8	7-13"	17"	6"
9	5	19.3	10-18"	25"	8½"
10	5	25.6	13-26"	34"	11"

Note: Numbers 1 and 3 are closed top. When using on very steep pitched roofs or on surface with deep corrugation, use next largest size for increased flange flexibility.

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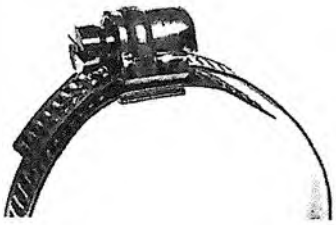
BAND-IT®
THE CLAMPING EXPERTS

BANDING KITS

Scru-Band
Scru-Seal™ Clamps
Clamp-Pak™



Scru-Band

A reusable band clamp with continuous roll-formed teeth and a patented side load housing for fast, easy, no-slip clamps of any diameter - from 1" to 30 feet and more - from one kit. Work right out of box without critical measuring or waste using only a screwdriver for tensioning. Fast take-up, fewer components and simple 1-2-3 installation procedure for faster clamping. Smooth I.D. band prevents material from squeezing through. 100% stainless steel construction for strong, corrosion free durability.

Scru-Seal Clamps with BAND-IT Band

A screw driver is the only tool needed to tension these clamps. 3/8" or 1/2" wide stainless steel band is used single or double wrapped, cut as required from the 100' roll. Scru-Seal clamps with slotted hex can be used around objects as small as 2" in diameter. Instructions for use are on the back side of the carton.

Clamp-Pak

Make your own clamps, 2" to 38" in diameter, with the contents of this Clamp-Pak. Ten shrink-packed cards to a carton with hang-hole at top. Instructions are on the back side of the Clamp-Pak card.

Scru-Band Clamping System

Stainless Steel

Cat No.	UIC No.	Description	Contents	Pkg. Qty	Weight Lbs	Weight Kg
M150	23150	Housings and	100 ea.	1	2.8	1.3
M155	23155	Screws	25 ea.	1	0.5	0.3
M151	23151	Scru-Band 3/8" (9.5 mm) x.025"(30.5 M) (.64 mm)	100 ft.	1	3.4	1.6
MI56	23156	Scru-Band Kit	100 ft.(30.5 M) of Scru-Band 25 Housings 25 Screws	1	4.0	1.8
M157	23157	Scru-Band Kit	50 ft. (15.25 M) of Scru-Band 10 Housings 10 Screws	1	2.1	1.0
M158	23158	Scru-Band Pak	10 ft. (3.5 M) 5 Housings 5 Screws	10	4.4	2.0

Scru-Seal Clamps with BAND-IT Band

All Stainless Cat. No.	All Stainless UIC No.	Stainless With Plated Carbon Screw Cat. No.	Stainless With Plated Carbon Screw UIC No.	Description	Pkg Qty	Weight Lbs	Weight Kg
M210	23210	M310	23310	25 ea Scru-Seals, racks, 100' (30.5 M) 3/8" (9.53mm) Band	1 set	4.3	1.9
M211	23211	M311	23311	Scru-Seal Seals and racks	10ea	.7	.3
C133	13133			Valustrap 3/8" (9.53mm) x .015 (.38mm)	100 ft (30.5M)	2.2	1.0
C134	13134			Valustrap 1/2" (12.70mm) x .015 (.38mm)	100 ft (30.5M)	2.9	1.3

Clamp-Pak

Cat. No.	UIC No.	Description	Pkg Qty	Weight Lbs	Weight Kg
M218	23218	Each card contains 10' (3M) x 3/8" (9.53 mm) stainless steel band, 3 racks and 3 seals with slotted hex screws.	10 cards	5.0	2.3

You Want Power... Where?

Fastener Systems, Inc.

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West Chester, PA 19382

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MODELS:	NGK-2900H	NGK-4300H	NGK-6000H/E	NGK-7000H/E	NGD-2900R	NGD-4300R	NGD-6200R/E
GENERATOR							
Voltage	120V	120/240V	120/240V	120/240V	120V	120/240V	120/240V
Max. Output	2900W	4300W	6000W	7000W	2900W	4300W	6200W
Max. Amps	24.2	35.8	50	58.3	24.2	35.8	51.7
Rated Output	2400W	3800W	5000W	6000W	2300W	3600W	4800W
Rated Amps	20	31.7	41.7	50	19.2	30	40
AC OUTLETS							
GFCI 120V, 20A	1	2	2	2	1	1	2
Twist Locks 120V, 30A		1	1	1		1	1
120/240V, 20A		1	1			1	
120/240V, 30A				1			1
ENGINE							
Manufacturer	Honda	Honda	Honda	Honda	Robin	Robin	Robin
Model	OHV GX-160	OHV GX-240	OHV GX-340	OHV GX-390	OHV EH17-2D	OHV EH25-2D	OHV EH34D
Horsepower	5.5	8	11	13	5.5	8.5	11
Starting System	Recoil	Recoil	Recoil / E.S.	Recoil / E.S.	Recoil	Recoil	Recoil / E.S.
Auto Idle	No	Yes	Yes	Yes	No	Yes	Yes
Tank	3.0 Gal.	4.5 Gal.	4.5 Gal.	4.5 Gal.	3.2 Gal.	4.4 Gal.	4.4 Gal.
Run Time	9 Hours	8.5 Hours	5.6 Hours	5.2 Hours	9 Hours	7 Hours	7 Hours
Dimensions (LxWxH) in.	22.4x17.3 x18.9	24.2x20.2 x20.1	26.0x21.3 x20.5	26.0x21.3 x20.5	22.0x16.3 x19.4	24.4x16.9 x20.6	26.8x18.5 x24.8
Dry Weight	95 lbs.	150 lbs.	176 lbs.	191 lbs.	106 lbs.	132 lbs.	172 lbs.
OPTIONS							
Wheel Kit	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lifting Eye	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tank Protection Bars	Yes	Yes	Yes	Yes	No	No	No

Specifications subject to change without notice

Standard features: Brushless, self-exciting, 1.0 power factor, Full power and Idle control on 240V models, Electro- magnetic breakers; Full roll cage with vibration isolation. Engine: 3600 RPM air cooled, low oil shutdown, automatic decompression, deluxe large muffler and air cleaner.
Limited Warranty: - Two Year Engine and Generator. Contact NAC for complete information.

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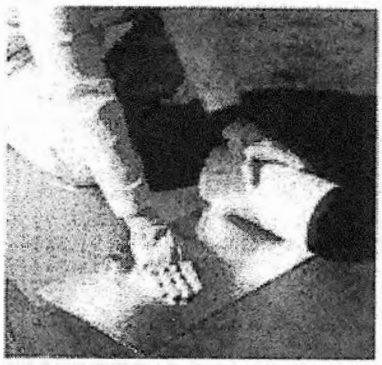
Peel & Seal Self-Stick Aluminum

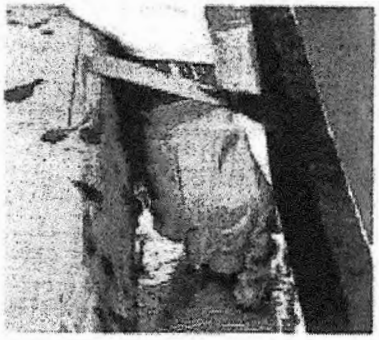
You'll find a hundred uses for Peel & Seal!



Patch leaking roofs quickly & effectively with **Peel & Seal.**

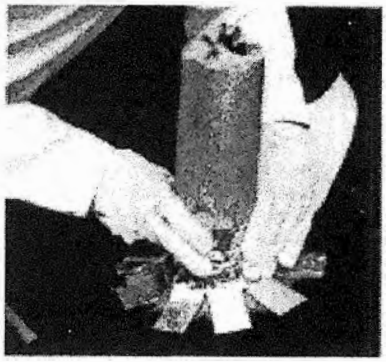
Peel & Seal helps solve metal roof problems– corrugated or standing seam– on industrial, commercial and farm buildings.

Peel & Seal is a valuable tool for flashing vents, skylights and HVAC units.



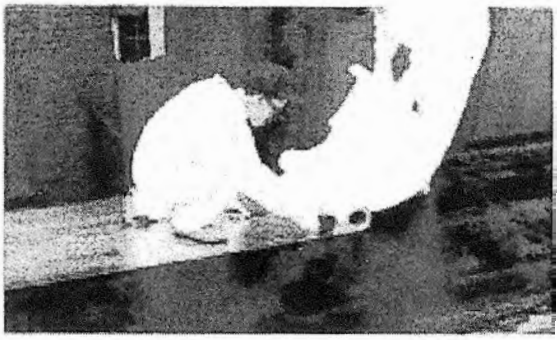
Use Peel & Seal – available in widths from 4" to 36" – to reline leaking gutters.

Peel & Seal is an excellent choice for waterproofing mobile home roofs... plus it reflects the sun's heat.



Cut and shape Peel & Seal... use it to solve many roofing problems.

Coping joints are a common source of leaks... here Peel & Seal provides a simple, economical solution.



Advanced Peel & Seal replaces old style roll roofing. Adheres without torches, adhesives or fasteners... and no coating is necessary.

SEE PAGES 18 AND 19 FOR MORE INFOR-MATION

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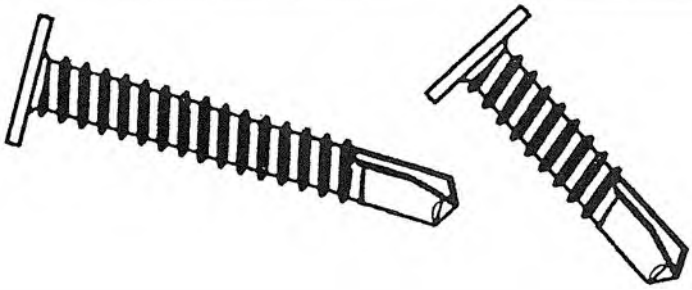
PHILLIPS PANCAKE LOW PROFILE CLIP SCREW

SELF-DRILLER CARBON STEEL WITH TRU-KOTE E-COATING

- Factory Mutual Approved Coating
  Tests show that the fasteners with alternate coating (Tru-Kote E-Coating) meet the FMRC Standard 4450 (1989) requirements for corrosion resistance
- Low profile design provides added clearance for concealed fastener panel systems
- SIZES NOW AVAILABLE AT FASTENER SYSTEMS

#12-1"
#12-2"
#12-3"
#12-4"
#12-5"
#12-6"



PULL OUT VALUES ON #12 METAL FASTENER

16 Gauge	18 Gauge	20 Gauge
825#	640#	525#
870#	675#	550#
875#	675#	525#

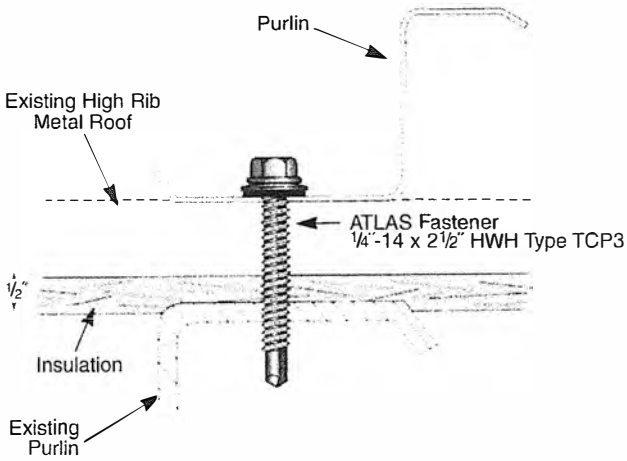
Parts drilled at 50 PSI & averaged 1.7 seconds with 1" embedment

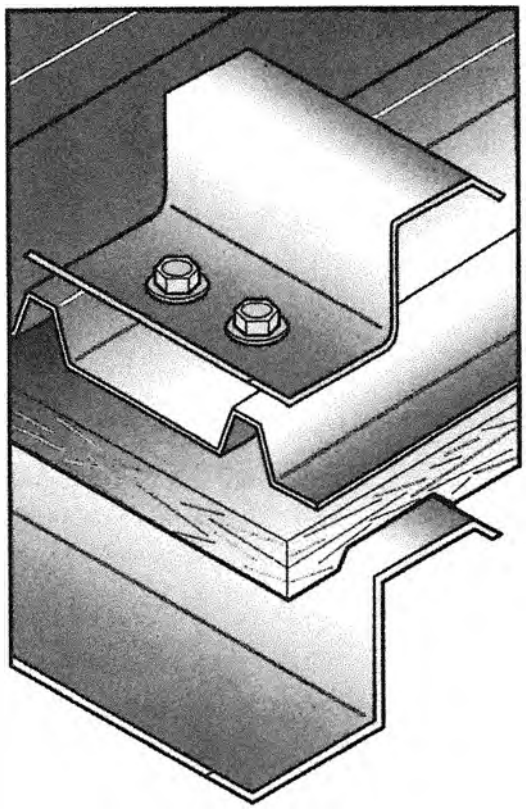
Fastener Systems, Inc.
640 Snyder Avenue
Bolmar Industrial Center
West Chester, PA 19382
(800) 232-5060
(610) 692-6658
FAX (610) 692-8151

METAL ROOF FASTENERS

Metal Roof

Base Clip to Structural

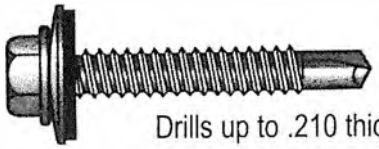




Fastener Selection

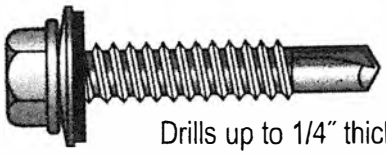
Ultra Z TCP3 Drilling Fastener with Oxyseal II Long-Life Coating

Thickness Range	Size
.250 to 1.750	#12 - 14 x 2 1/2" HWH
.250 to 2.250	#12 - 14 x 3" HWH



Drills up to .210 thick steel

Thickness Range	Size
.250 to 1.750	1/4" - 14 x 2 1/2" HWH
.250 to 2.250	1/4" - 14 x 3" HWH

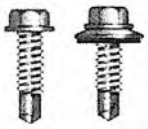


Drills up to 1/4" thick steel

Fastener Strength

Fastener Diameter	Minimum Tensile	Minimum Torque	Minimum Shear
6-20	1125 lbs.	25 in. lbs.	750 lbs.
8-18	1575 lbs.	42 in. lbs.	1000 lbs.
9-16	2350 lbs.	65 in. lbs.	1500 lbs.
10-16	2100 lbs.	61 in. lbs.	1400 lbs.
10-24	2350 lbs.	65 in. lbs.	1500 lbs.
12-14	2800 lbs.	92 in. lbs.	2000 lbs.
12-24	3250 lbs.	100 in. lbs.	2100 lbs.
1/4-14	3850 lbs.	150 in. lbs.	2600 lbs.
1/4-20	4275 lbs.	168 in. lbs.	2700 lbs.
17-14	5200 lbs.	175 in. lbs.	3125 lbs.
18-9	4550 lbs.	170 in. lbs.	2575 lbs.

Specifications



Diameters: #6, #8, #10, #12 & 1/4", #18
Lengths: 3/4" thru 8"
Points: Self-Drilling
Material: Carbon Steel and 410 Stainless Steel
Plating: .0005 min mechanical zinc

Communication is the key to FSI's success