

# ***Fastening and Closure Systems for Metal Builders***



**East Coast**  
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**PLYCO**  
CORPORATION

Due to Plyco Corporation's ongoing commitment to product improvement, we reserve the right to change, without notice, product specifications, availability, prices and conditions of sale. Products are shown with options, please contact your representative.

902-12-1

**East Coast**  
**FASTENERS & CLOSURES, INC.**

Ply-Fast/Ply-Lo Ultimate Pullout Values

PLY-FAST AVERAGE PULLOUT 1" PENETRATION

Screw Description	Test Material	Specific Gravity	Ultimate Pullout/Lbs
Ply-Fast #9 - 16 Mechanical Zinc Plating (.0007) Min. ECF Sharp Point	Douglas Fir	.4900	589
	Yellow Pine	.5500	882
	1/2" CDX	.4600	270
	3/4" CDX	.5364	480

Screw Description	Test Material	Specific Gravity	Ultimate Pullout/Lbs
Ply-Fast #14 - 10 Type "S" Mechanical Zinc Plating (.0007) Min.	Douglas Fir	.4900	625
	Yellow Pine	.5500	985
	1/2" CDX	.4622	300
	3/4" CDX	.5217	526

PLY-LO AVERAGE PULLOUT 1" PENETRATION

Screw Description	Test Material	Specific Gravity	Ultimate Pullout/Lbs
Ply-Lo #10-14 Type 17 milled point Mechanical Zinc Plating (.0007) Min.	Douglas Fir	.4900	610
	Yellow Pine	.5500	960
	1/2" CDX	.4622	290
	3/4" CDX	.5217	475

Lumber for these tests is typical of the wood used in post frame construction. This lumber was not kiln dried. Tighter grain structure would provide substantial increase in pullout values. Values with 1" penetration can vary from 240 lbs to 1150 lbs, depending on wood density. We believe these are typical values found in field applications. These values are ultimate with no safety factors. Recommended minimum penetration is 1".

FASTENER STRENGTH CHARACTERISTICS

SIZE	STEEL	TENSILE	SHEAR	TORSIONAL	RC HARDNESS CASE	CORE
9 - 16	C1018	1800 Lbs	1100 Lbs	65 Inch Lbs	56	37
14 - 10	C1018	3900 Lbs	2600 Lbs	140 Inch Lbs	55	38
10 - 14	C1018	2100 Lbs	1400 Lbs	65 Inch Lbs	56	37

Ruff-Con Technical Data

FASTENER SELECTION GUIDE

Attached Fixture	Ruff-Con™ Length	Depth of Drilled Hole	Bit* Length
A	0 - 1/4"	B	1 1/2"
	1/4" - 3/4"		3 1/2"
	3/4" - 1 1/4"		4 1/2"
	1 1/4" - 1 3/4"		4 1/2"
	1 3/4" - 2 1/4"		5 1/2"
	2 1/4" - 2 3/4"		5 1/2"
	2 1/2" - 3"		5 1/2"
	3" - 4"		6 1/2"
	4" - 5"		7 1/2"

\*5/32" diameter drill bit for 3/16" anchors and 3/16" diameter drill bit for 1/4" anchors

ULTIMATE PULLOUT & SHEAR VALUES

Material	Embedment	3/16" Anchor	1/4" Anchor
Ruff-Con Ultimate Pullout Values (LBS)			
3000 PSI Concrete (Cured 40 days)	1"	890	1480
Hollow Block	1"	380	490
Ruff-Con Ultimate Shear Values (LBS)			
3000 PSI Concrete (Cured 40 days)	1"	930	1610
Hollow Block	1"	760	950

NOTE: Above results represents ultimate values. Appropriate safety factors should be applied before utilizing these figures.

Sheeting Fasteners Technical Data

SUGGESTED DRILL SIZES

#14 TYPE A				1/4" TYPE AB				1/4" TYPE B			
Steel Gauge	Hole Size	Steel Gauge	Hole Size	Steel Gauge	Hole Size	Steel Gauge	Hole Size	Steel Gauge	Hole Size	Steel Gauge	Hole Size
26 gauge	1/8"	16 gauge	#8 Bit	26 gauge	1/8"	16 gauge	#8 Bit	3/16"	#1 Bit	Over 3/8"	.231 Bit
24 gauge	3/16"	14 gauge	#8 Bit	24 gauge	3/16"	14 gauge	#7 Bit	Thru			
22 gauge	3/16"			22 gauge	3/16"	12 gauge	#7 Bit	3/8"			
20 gauge	3/16"			20 gauge	3/16"	10 gauge	#1 Bit				
18 gauge	3/16"			18 gauge	3/16"						

STRENGTH OF THE FASTENER

TEST RESULTS	1/4" Type B	#14 Type A
Minimum tensile strength .....	2700 lbs.	2360 lbs.
Minimum shear strength .....	1760 lbs.	1535 lbs.
Minimum torsional strength .....	142 inch lbs.	125 inch lbs.

PULL OVER TESTS - In 26 Gauge Sheet (RB 74 Hardness)

Screw Diameter	Bonded Washer Diameter	Hole Diameter in 26 Ga. Sheet	Average Pull Over in Lbs.
1/4"	5/8"	#1 (.228")	645
1/4"	35/64"	#1 (.228")	578
#12	1/2"	#7 (.201")	504

PULL OUT TESTS

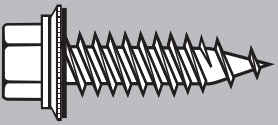
To determine the tension required to pull a properly applied screw out of a structural member. For pull-out or pull-over test method, our Drawing 121770 is available on request. (All tests made by Herron Testing Laboratories — Cleveland.)

Thickness of Structural Steel	Hardness of Structural Steel Rockwell B	Drilled Hole Size	1/4 Type B	#14 Type A
18 Gauge (.052")	72	3/16" (.187")	659	676
16 Gauge (.064")	76	3/16"	881	885
14 Gauge (.079")	82	#9 (.196")	1215	1186
12 Gauge (.108")	80	#3 (.213")	1410	
11 Gauge (.123")	84	#3	1622	
3/16" (.187")	79	#3	3224	
1/4" (.250")	77	#1 (.228")	3429	

Post-Frame Fasteners

APPLICATIONS

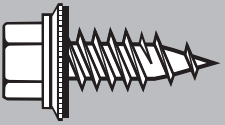
STANDARD SIZES



Ply-Fast™

Fasten steel sheet (29, 26 gauge) to wood frame. Sharp point with double lead thread. Superior drilling ability. Unthreaded shoulder adds strength to the fastener and prevents fastener threads from tearing soft, rubber washer.

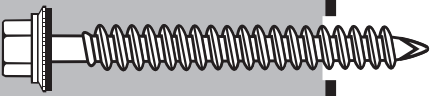
#9 diameter (1/4" across flats Hex Washer Head) Lengths: 1", 1 1/2", 2", 2 1/2", 3"



Ply-Fast™ Stitch

Fasten steel sidelaps securely. Helps prevent stripout. Sharp point with double lead thread. May be used with 29 or 26 gauge steel.

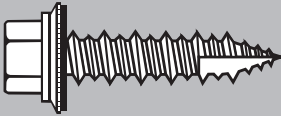
#12 diameter (1/4" & 5/16" across flats Hex Washer Head) Lengths: 3/4"



Deepgrip™

Fasten steel sheet (29, 26 gauge) through rigid insulation to wood frame or light steel framing (18 gauge maximum). Self-drilling tip. Fastener is coated with corrosion-resistant black finish.

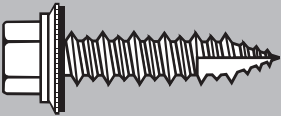
#12 diameter (1/4" across flats Hex Washer Head) Lengths: 3 1/4", 3 3/4", 4 1/2", 5", 6", 7", 8"



Ply-Lo 410™

Fasten GALVALUME™, other long-life roof sheets to wood. Hi-Lo Type 17 Milled Point- 410 Stainless Steel with Ultraseal Corrosion Resistant Coating - 1/2" O.D. 304 Stainless / EPDM Vulcanized Sealing Washer. 1/4" Across Flats Hex Washer Head

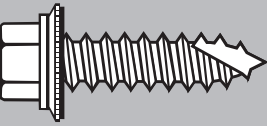
#9 diameter (1/4" across flats Hex Washer Head) Lengths: 1", 1 1/2", 2", 2 1/2"



Ply-Lo™

Fasten steel sheet (29, 26 gauge) to wood frame. Type 17 point with Hi-Lo thread. Generates superior holding strength. Excellent choice for use with battery-operated screwgun. Works extremely well in composite materials such as fiberglass or PVC panels.

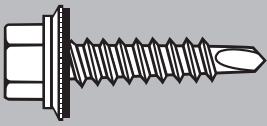
#10 diameter (1/4" across flats Hex Washer Head) Lengths: 1", 1 1/2", 2", 2 1/2", 3"



Ply-Fast™ Type "S"

Fasten steel sheet to wood frame or light gauge steel frame (18 gauge maximum). Use as a hole-plugger when nails back out of wood. Type 17 point.

#14 diameter (5/16" across flats Hex Washer Head) Lengths: 1", 1 1/2", 2", 2 1/2"

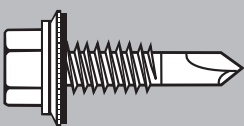


Alumi-Drill™

Fasten aluminum sheet to wood. #1 self-drilling point. Prevents tearing of soft aluminum sheet. Use with aluminum liner panel. Excellent for confinement applications.

#11 diameter (1/4" across flats Hex Washer Head) Lengths: 1", 1 1/2", 2", 2 1/2", 3"

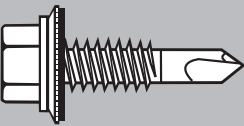
Steel-Frame Fasteners



Metalfast SD™

Fasten steel sheet (26 gauge) to steel frame (.220" maximum). Forged point provides exceptional drill speed and immediate drilling of the material. No "walking" on the sheet occurs. Stitch screw fastens 26 gauge steel sidelaps securely with no stripout. Available in carbon steel or 410 Stainless Steel for corrosion resistant requirements.

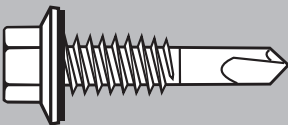
#12, 1/4" diameter stitch (5/16" across flats Hex Washer Head) 1/4" diameter (3/8" across flats Hex Washer Head) Lengths: 3/4", 1", 1 1/4", 1 1/2", 2", 3"



Traxx®

Fasten steel sheet (26 gauge) to steel frame (.250" maximum). Milled point provides exceptional strength in double-lapped purlins and high tensile steel.

#10, #12 diameter (5/16" across flats Hex Washer Head) 1/4" diameter (3/8" across flats Hex Washer Head) Lengths: 3/4", 1", 1 1/4", 1 1/2", 2", 3", 4"

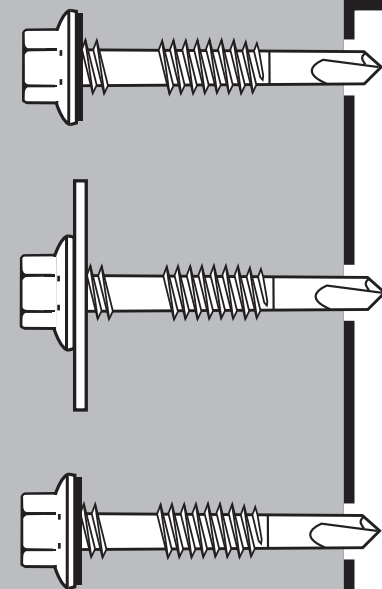


SCOTS®

Fasten GALVALUME™ (26 gauge) or other long life sheet to steel frame (.500" maximum). 300 Series Stainless Steel cap on a milled point Traxx screw. Lifetime warranty against red rust.

#12, 1/4" diameter stitch (5/16" across flats Hex Washer Head) Lengths: 3/4" - 2"

## Steel-Frame Insulation Fasteners



### APPLICATIONS

#### Exterior Rigid Insulation Traxx®

Fasten light gauge steel sheet through rigid insulation (3/4" - 3 1/4") to steel framing up to .220" thickness. Milled point Traxx provides exceptional strength in double-lapped purlins and high-tensile steel.

#### Interior Rigid Insulation Traxx®

Fasten interior rigid insulation (3/4" - 3 1/4") to steel framing up to .220" thickness. Assembled with 1 1/4" O.D. White polyethylene washer to help hold insulation in place. Milled point Traxx provides exceptional strength in double-lapped purlins and high-tensile steel.

#### SCOTS® Exterior Rigid Insulation

Fasten Galvalume or other long-life roof sheet through rigid insulation (3/4" - 3 1/4") to steel framing up to .220" thickness. 300 Series Stainless Steel cap on a milled point, Traxx screw provides lifetime warranty against red rust.

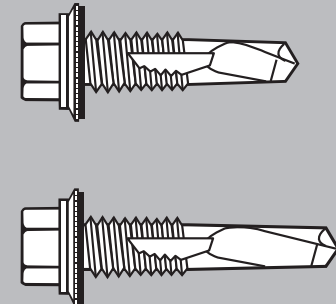
### STANDARD SIZES

#12 diameter  
(5/16" across flats  
Hex Washer Head)  
Lengths: 1 7/8", 2 3/8",  
3 1/4", 4"

#12 diameter  
(5/16" across flats  
Hex Washer Head)  
Lengths: 1 7/8", 2 3/8",  
3 1/4", 4"

#12 diameter  
(5/16" across flats  
Hex Washer Head)  
Lengths: 1 7/8", 2 3/8",  
3 1/4", 4"

## Heavy Gauge Fasteners



#### Heavy Gauge Traxx®/4

Fasten steel roof deck (22 gauge) clips or other accessories to structural steel (.250" maximum). Milled point provides exceptional strength and durability in heavy gauge steel.

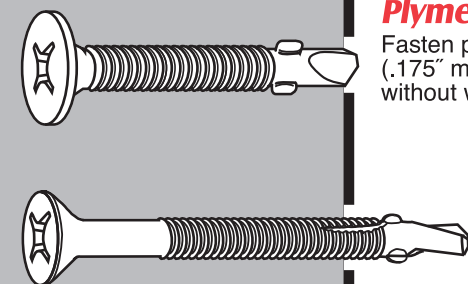
#### Heavy Gauge Traxx®/5

Fasten steel roof deck (22 gauge) clips or other accessories to structural steel (.500" maximum). Milled point provides exceptional strength and durability in heavy gauge steel. Available in carbon steel or SCOTS 304 stainless cap.

#12 diameter  
(5/16" across flats  
Hex Washer Head)  
Lengths: 7/8", 1 1/4"

#12 diameter  
(5/16" across flats  
Hex Washer Head)  
Lengths: 1 1/4", 1 1/2", 2",  
3", 4"

## Wood-to-Metal Fasteners



#### Plymetal Traxx®

Fasten plywood (3/4" maximum thickness) to steel framing (.175" maximum). Milled point Traxx is available with or without wings for wood clearance depending upon length.

#### Reamer Traxx®

Fasten wood (2" maximum thickness) to heavy gauge steel (.250" maximum). Milled point Traxx has wings for wood clearance.

#10 diameter  
(#2 Phillips recess  
Wafer Head)  
Lengths: 3/4", 1", 1 7/16",  
1 13/16"

#12, #14 diameter  
(#3 Phillips recess  
Flat Head)  
Lengths: 2 1/2" - 2 3/4"

## Exterior Wood-Decking Fasteners

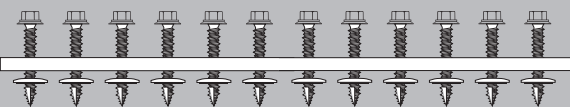


#### Wood-Dec™

Corrosion resistant coarse-thread screws for wood decks and other exterior wood applications. Mechanical zinc plating and dip-spin coating provides 1000 hours salt spray resistance. Available with Phillips or Square Drive.

#6, #8, #10 diameter  
(#2 Phillips or #2 Square  
Recess Bugle Head),  
Lengths: 1 5/8", 2", 2 1/2",  
3", 3 1/2", 4", 5 1/4"

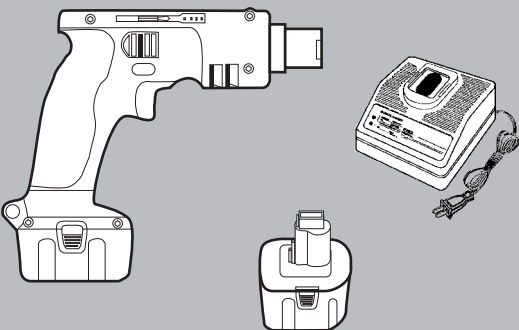
## PLY-LO QD™ Collated Fastening System



#### PLY-LO QD™

- 10-14 x 1 1/2" PLYLO collated fastener
- Type 17 milled drill point
- ULTRASEAL corrosion protection
- Assembled with 1/2" OD aluminum/EPDM vulcanized washer
- 24 screws per strip

## Tools



#### Cordless

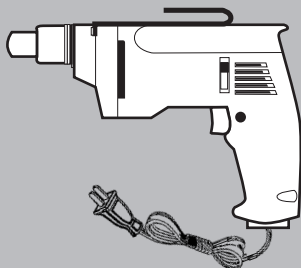
12 Volt 0-2300 RPM Cordless Screwgun-Black & Decker model #2802K (includes 1 XR battery pack, standard 1 hour charger, & carry case)

#### Quick Charger

(Optional) Fully charges an XR battery in 15 minutes

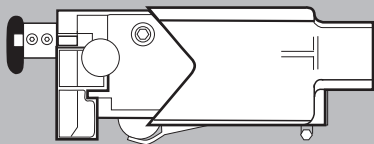
#### Battery Pack

Black & Decker XR Battery pack (will drive 150-200 screws on a single charge.)



#### Porter Cable Screwgun

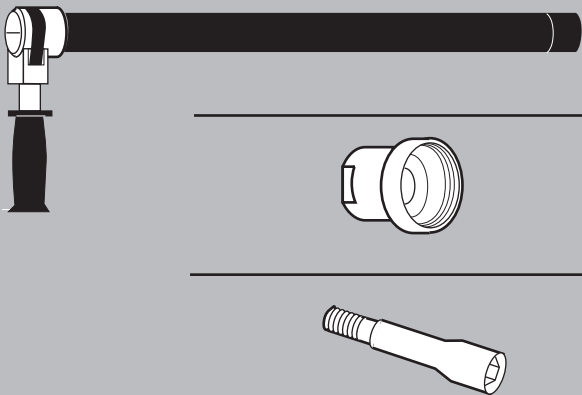
5.5 AMP 0-2500 RPM Electric  
Porter Cable Screwgun model #6645



#### QDHEX 14

Designed to drive 1/4" hex washer head PLY-LO QD collated fasteners. Magazine is Equipped with depth setting to prevent over driving of screw.

## Accessories



#### QDEXT II

24" extension (allows installer to stand up on roof application)

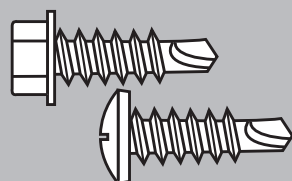
• **AD Adaptor** for select Screwguns-see price sheet for available models

#### Threaded Socket

1/4" Hex Threaded Socket  
Model #104008



HVAC/Sheet Metal Fasteners



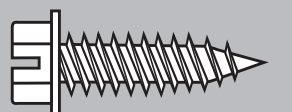
APPLICATIONS

Metalfast SDI™

Fasten building trim, steel decking sidelaps, sheet metal duct straps to steel with a total thickness of .140" (10 gauge). Forged point drills quickly and does not walk on the metal. Electroplated with .0003" zinc.

STANDARD SIZES

#8, #10, #12 diameter  
(#2 Phillips Pan Head,  
1/4", 5/16" across flats  
Hex Washer Head)  
Lengths: 1/2", 5/8", 3/4", 1",  
1 1/4", 1 1/2"



Metalfast SP™

Fasten gutters, downspouts, and furnace duct straps. Super sharp point penetrates steel thickness up to .048" (18 gauge) and is used when self-drilling tip is not required. Electroplated with .0003" zinc.

#8, #10 diameter  
(1/4", 5/16" across flats  
Slotted Hex Washer Head)  
Lengths: 1/2", 3/4", 1"

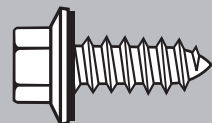


Blind Rivets

Fasten building trim or other accessories where a finished appearance is important. Accepts paint to match any building trim color. Available in carbon steel, aluminum, or 304 stainless steel.

1/8" diameter  
Grip Range: 1/16" - 1/4"

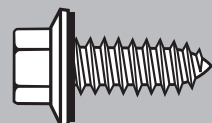
Sheeting Fasteners



Type A

Fasten steel sidelaps, flashings, and light gauge steel sheet to steel frame (.075" maximum) or wood. Fastener has a coarse thread and tapered point for holding strength. Available in carbon steel or 304 Series Stainless Steel.

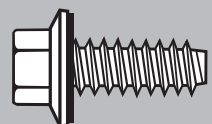
#14 diameter  
(3/8" across flats Hex Head)  
Lengths: 3/4", 1", 1 1/2", 2",  
2 1/2", 3", 3 1/2", 4",  
5", 6"



Type AB

Fasten light gauge steel sheet to steel purlins (.140" maximum) and also fasten steel sheet sidelaps. Fastener has a finer thread than "Type A" and a tapered point. Available in carbon steel or 304 Series Stainless Steel.

1/4" diameter  
(3/8" across flats Hex Head)  
Lengths: 3/4" - 1"

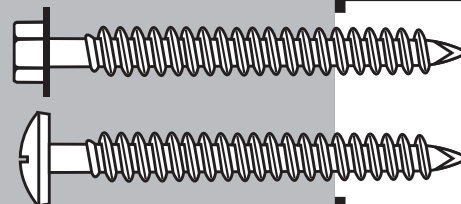


Type B

Fasten light gauge steel sheet to structural steel purlins or bar joists up to .500" thickness. Fastener has a finer thread than "Type A" and a blunt point. Available in carbon steel or 304 Series Stainless Steel. Stainless parts have fluted threads for easier driving and increased stripout resistance.

#14 diameter  
(3/8" across flats Hex Head)  
Lengths: 3/4", 1", 1 1/2", 2",  
2 1/2", 3", 3 1/2", 4",  
5", 6"

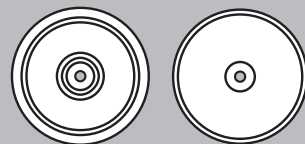
Specialty Roofing Fasteners



Roof Deck Screws

Fasten rigid insulation to wood decks or steel decks up to 18 gauge maximum (.095" thickness). Used on built-up roof systems or fully adhered single-ply roof systems. Corrosion resistant coating is applied over zinc plating. Fasteners are FACTORY MUTUAL approved.

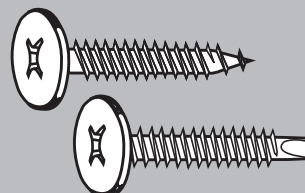
#12 diameter  
(1/4" across flats  
Hex Washer Head or  
#3 Phillips Truss Head)  
Lengths: 1 5/8", 2 1/4", 2 7/8",  
3 1/4", 3 3/4", 4", 5",  
6", 7", 8"



Roof Deck Plates

3" diameter round plates used to hold rigid insulation in place with roof deck screws. Available in hard polypropylene plastic or Galvalume metal.

3" outside diameter



Architectural Panel Clip Fasteners

Fasten clips for concealed fastener architectural roof panels to wood or steel framing up to .140" maximum thickness. Low profile Pancake Head prevents fastener from dimpling steel sheet.

#10 diameter  
(#2 Phillips recess  
Pancake Head)  
Lengths: 1"

Specialty Fasteners



EZ Ancor®

Self-drilling one-piece anchor for attaching accessories to drywall. Anchor is removable and reusable in different hole. Available in carbon steel (zinc plated) or hardened white plastic. Not recommended for ceiling applications.



EZ Toggle®

Self-drilling toggle bolt for heavy duty drywall applications. Excellent for ceiling as well as wall applications. Pre-drilling is eliminated.

#8 diameter  
Lengths: 2 1/8", 3", 4"



Grommet

Fasten sidelaps in fiberglass or other composite sheets. Part consists of neoprene sleeve with molded brass nut and stainless steel vulcanized sealing washer.

#6-32 diameter  
(1/4" across flats Hex Head)  
#10-32 diameter  
(3/8" across flats Hex Head)  
Lengths: 1"

Sealing Washers



Vulcanized Sealing Washer

Used on all East Coast fasteners to help seal out moisture on post-frame and steel-frame building applications. Rubber is bonded to metal so that it will never delaminate and cause potential leaks. The EPDM rubber will withstand harsh ultra-violet rays and not break down. Available in G-90 galvanized, aluminum, or 304 stainless steel.

Outside diameters:  
3/8", 12mm, 1/2", 9/16",  
5/8", 23/32", 3/4", 7/8", 1",  
1 1/8", 1 1/4", 1 1/2"  
Inside diameters:  
#6 - #17 fastener

Accessories



Magnetic Sockets

Hardened steel socket designed to drive Hex Head and Hex Washer Head screws. Magnet can be adjusted to provide exact fit for proper driving technique.

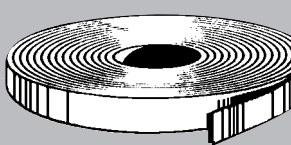
1/4" diameter socket  
(#6, #8, #9 diameter screws)  
5/16" diameter socket  
(#10, #12 diameter screws)  
3/8" diameter socket  
(#14, #17 diameter screws)



Spring Retainer Sockets

External spring holds fastener securely in place. No magnet is required. Excellent for use with aluminum, stainless steel, stainless steel - capped, and zinc die-cast non-magnetic head fasteners. Also causes less abrasion to painted fasteners than a magnetic socket.

1/4" diameter socket  
(#6, #8, #9 diameter screws)  
5/16" diameter socket  
(#10, #12 diameter screws)



Butyl Tape

Designed for use on standing seam roofs and steel building sidelaps. Contains 100% solids. No solvents or oils are used. Temperature range is -60F - +212F. Resistant to water, ultraviolet rays, and mild acids and bases. Has very high cohesive strength and takes expansion and contraction well. Material is excellent for bonding in cold weather.

3/16", 1/4" bead  
Lengths: 20' - 25'  
Heights: 3/32", 1/8"  
Widths: 1/4", 3/8", 1/2",  
3/4", 1"  
Lengths: 25', 30', 45', 50'



## Closure Strips

### APPLICATIONS

### STANDARD SIZES

#### CI-7™ Closures

2.0 lbs/ft<sup>3</sup> density cross-linked polyethylene foam used to close gaps in roof and side wall applications. Material is extremely strong, resilient and water resistant. Available in gray or natural white colors. Also available with optional adhesive strip for ease of installation.

Thickness: 1", 2"  
Lengths: Per customer requirements (up to 48")

#### Polyurethane Foam Strips

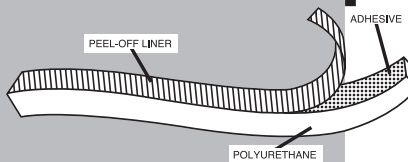
Semi closed-cell, flexible material used to close unusual gapping situations. Useful on valley or hip roof applications. Available with or without adhesive backing in charcoal color.

Thickness: 3/4", 1", 1 1/2", 2"  
Width: 1", 1 1/2", 2"  
Lengths: 25'

#### CI-7™ Angle Cut Closure

Used for hip roof, valley, or gable trim applications. Material is available in right or left hand angles, & conforms exactly to panel configuration. Raw material has the same specifications as CI-7. Life expectancy is 3-4 times that of polyurethane foam strips.

Thickness: 1 1/2"  
Lengths: Per customer requirements (up to 48")



## Flashings

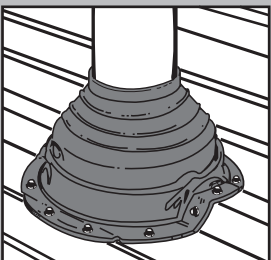
### APPLICATIONS

### STANDARD SIZES

#### Flashers™

EPDM rubber pipe flashing for steel and aluminum roofing. Operating temperature -30F - +400F. Special rings can be easily cut to conform to many diameters of pipe. Positioning pipe at a particular point on the roof is eliminated because flexible aluminum band conforms to any roof configuration.

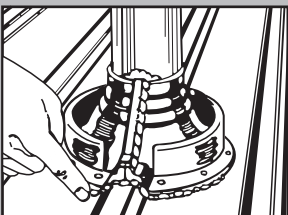
Sizes: #1 - #9 (1/4" - 19" outside diameter pipe)  
Diverter Dektite: 16" - 24"  
Available in gray, black, or silicone red



#### Retrofit Dektite®

EPDM rubber pipe flashing with stainless steel pleat for applications where standard Dektite cannot be used. Dektite wraps around pipe and pliers crimp it closed. Excellent product for flashing an opening where an obstruction such as an air conditioning unit is present which cannot be moved.

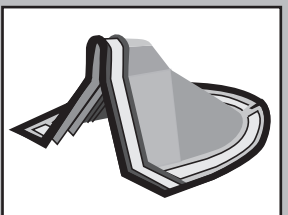
Sizes: #1 - #3 (3/4" - 10" outside diameter pipe)



#### Dek-Cap™

Standing Seam Roof End Cap Flashing. Flexible, corrosion resistant aluminum base conforms to the majority of standing seam roof panels.

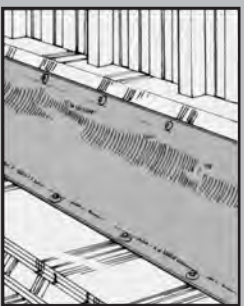
Material: Thermal Elastomer  
Width - 7 1/4"  
Length - 5 3/4"  
Height - 3 5/16"



#### Flashdek®

Flexible, weatherproof roof flashing system. Hypalon roof material edged with aluminum bands which contour to any roof configuration. Excellent for use on parapet wall applications, stepped or gambrel roofs, or for wrapping tanks. It is also a problem solver for a leaking roof.

Widths: 7", 9", 12", 18"  
Lengths: 50', 150'



## Coatings / Paint Systems

### Mechanical Plating

The standard plating on East Coast screws is .0007" mechanical zinc. This method allows for more plating to be deposited on the fastener in a more uniform fashion, eliminating hydrogen embrittlement, which is commonly associated with other plating methods.

### Ultraseal™

This is a protective coating which is available on all screws with .0007" mechanical zinc plating. ULTRASEAL is applied by a mechanical process to a total thickness of 1 mil. The nature of the Zinc-Nickel coating helps prevent scratching of the material, thus preventing corrosion from getting a place to start. Life expectancy is 3 times that of mechanical Zinc.

### Pro-Coat™ Paint System

East Coast paints all of its fasteners with a catalyzed baking enamel which provides a hard, smooth appearance. It provides protection against extreme weather conditions and harsh chemical environments. Applied to a 1 mil thickness, the computerized color match is exactly per customer specifications.

## Masonry Fasteners

### Ruff-Con™

Fasten clips, conduit, wood, window frames and HVAC duct straps to concrete, brick, block, and mortar. Anchor taps its own threads in small pilot hole. Can be removed and reused. No need for plugs or inserts. Spotting of holes is eliminated. Highly corrosion resistant.

3/16" diameter (1/4" across flats combination Hex Washer Head or #2 Phillips Flat Head)

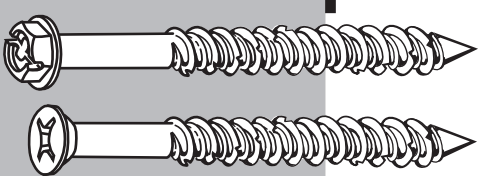
1/4" diameter (5/16" across flats combination Hex Washer Head or #3 Phillips Flat Head)

Lengths: 1 1/4", 1 3/4", 2 1/4", 2 3/4", 3 1/4", 3 3/4", 4", 5", 6"

### Ruff-Con™ Drill Bits

Carbide-tipped masonry drill bit used to drill pilot hole for Ruff-Con anchor. Close tolerance between drill bit and anchor helps prevent anchor strip-out.

5/32", 3/16" diameter  
Lengths: 3 1/2" - 7 1/2"



### Ruff-Con™ Installation Tool

Versatile tool used to drill pilot hole in concrete and then drive Ruff-Con anchor. Sleeve slips on and off over drill bit and accepts attachments to drive both Phillips and Hex Washer Head anchors.

About EAST COAST Fastener Products

EAST COAST Fasteners & Closures, Inc. is totally committed to providing the highest quality products and service to our customers. We view the customer as our lifeblood, and will perform to the best of our abilities to meet your requirements. The breadth of product line of EAST COAST as well as its parent company, PLYCO Corporation, allows our customers a wide variety of products from which to choose. Fasteners, closure strips, walk doors, windows, ventilation products, reflective insulation and bi-fold utility doors make PLYCO & EAST COAST Fasteners the most complete supplier of accessory products to the agricultural and commercial building markets. Service is available on our own convenient route trucks, or by commercial common carriers, as well as UPS. All EAST COAST standard products are shipped 3 days or less after your order is received. Specify EAST COAST & PLYCO products on your next project. Your satisfaction is the key to our success.

EAST COAST Fastener Terms and Conditions

PACKAGING

Published prices are for fasteners packaged in bulk containers or 500 piece polyethylene bags. Special bagging requirements available upon request.

PAYMENT TERMS

2% cash discount 10 days, Net 30

FREIGHT

FOB shipping point. Freight prepaid on 1000 lbs. of fasteners or \$2000.00 of closures at the lowest prevailing rate.

RETURNED GOODS

A return authorization must be issued before a product may be returned. Returns are subject to a 20% restocking fee and the return must be prepaid.

LEAD TIMES

All parts listed on the price schedules are standard to the product line and will be shipped one week from receipt of order. Related non-standard items not shown are also available. Please call for price and availability.

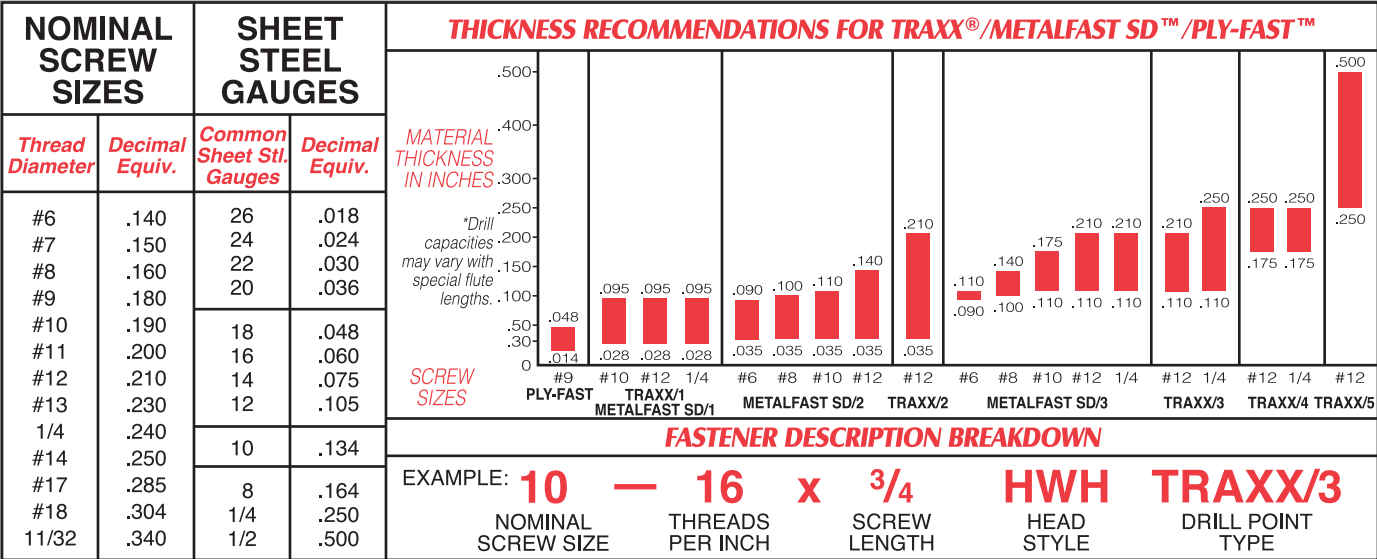
WARRANTY & LIMITATION OF LIABILITY

EAST COAST will replace any product which within 12 months after sale by EAST COAST is found to be defective in material and workmanship except for normal wear and tear. This is the sole warranty of EAST COAST and the sole remedy available to the buyer. EAST COAST will not be liable for any injury, or for consequential, incidental, or special damages arising out of the use or inability to use any EAST COAST product.

Traxx / Metalfast SD Ultimate Pullout Values

*ULTIMATE PULLOUT VALUES (POUNDS)													STRENGTH CHARACTERISTICS			
Size	Point	26	24	22	20	18	16	14	12	1/8	3/16	1/4	Fastener Size	Minimum Tensile (Pounds)	Minimum Fastener Torque Strength (Inch - Pounds)	Ultimate Fastener Shear (Pounds)
8-18	T/2	119	193	265	298	491	703	959	1558				6-20	1125	25	750
	T/3	120	191	239	285	470	663	910	1424	2287						
10-16	T/1	148	241	311	357	565	826	1111	1796				8-18	1575	42	1000
	T/2	131	214	272	368	547	784	1033	1653							
10-24	T/3	124	208	266	299	499	708	967	1474	2077			10-16	2100	61	1400
	T/3	121	200	251	333	495	701	900	1375	2070	2612					
12-14	T/1	158	261	338	390	649	908	1259	1949				10-24	2350	65	1500
	T/2	156	243	283	375	605	848	1181	1856	2568	3520					
12-24	T/3	142	211	289	341	551	757	1063	1631	2420	2998		12-14	2800	92	2000
	T/4					495	697	986	1532	2441	3485	3844				
1/4-14	T/5					487	699	913	1527	2207	3701	3999	12-24	3250	100	2100
	T/1	208	329	428	562	800	1151									
1/4-14	T/2	166	265	314	430	645	922	1152					1/4-14	3850	150	2600
	T/3	141	231	293	346	613	880	1145	1858	2406	4550	5033				
1/4-20	T/3	140	225	271	363	556	781	1005	1678	2542	3554		1/4-20	4275	168	2700
	T/4					554	788	1116	1803	2550	4297	4589				

\*NOTE: An appropriate safety factor should be applied to the ultimate test values.



STRENGTH CHARACTERISTICS						ULTIMATE PULLOUT		
Diameter	Threads Per Inch	Point #	Ultimate Shear	Minimum Tensile/Lbs	Maximum Torque /Inch Lbs	Screw Description	Test Material	Ultimate Pullout/Lbs
12	14	3	2000	2800	92	Metalfast #12 - 14 Mechanical Zinc Plating (.0007") Min. ECFC Reduced Point	16 ga. Steel	703
12	14	2	2000	2800	92		14 ga. Steel	890
1/4	14	1	2600	3850	150		12 ga. Steel	1910

Drilling Technique

EAST COAST TRAXX®/METALFAST SD™/PLY-FAST™ ARE SELF-DRILLING FASTENERS...THEY DRILL, TAP AND FASTEN IN ONE OPERATION.

A separate drilling operation is not necessary. However, specific installation procedures are necessary to insure correct fastening results and to achieve published performance values for each fastener.

Important: A 1900 to 2500 RPM screwgun rated at 5 amps or higher, equipped with a properly adjusted depth-locating nosepiece, must be used for correct fastening results. During

initial drilling, enough pressure must be applied while keeping the screwgun and fastener perpendicular to the work surface to prevent angle driving or walking. Drilling must be completed before the threads engage the material. The correct fastener based upon the total thickness and type of material to be drilled and fastened for an application is very essential. Never overdrive the fasteners or install fasteners at an angle to the work surface, as this may significantly reduce product performance or lead to product failure.

Contact East Coast Fasteners & Closures toll-free at 1-800-558-5895, for any specific information necessary.

