

PRODUCT SELECTION GUIDE

Fasteners • Sealants • Tools & Accessories



APRIL 2023

Application:

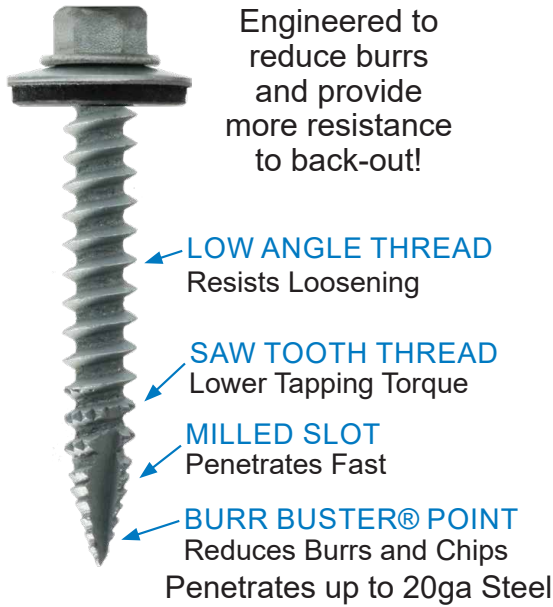
**INSTALLERS OF METAL ROOFS AND WALLS
TO WOOD & POST FRAME CONSTRUCTION**



800.486.1832

www.trianglefastener.com

MD388 0223



Engineered to reduce burrs and provide more resistance to back-out!

LOW ANGLE THREAD
Resists Loosening

SAW TOOTH THREAD
Lower Tapping Torque

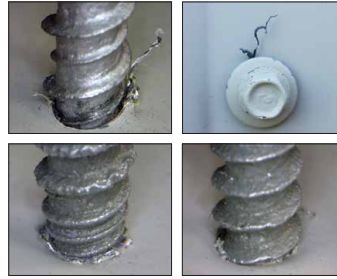
MILLED SLOT
Penetrates Fast

BURR BUSTER® POINT
Reduces Burrs and Chips
Penetrates up to 20ga Steel



See how it performs compared to other types of screws.
- Scan QR or Click Here -

REDUCES BURRS



Patented Anti-burr Thread and Point Technology!*

Problem

Ordinary self-piercing screws produce burrs during installation that can damage the washer and corrode the panel!

Solution

The BURR-BUSTER® point is designed to extrude the metal as it penetrates, minimizing burrs.

RESISTS BACK-OUT

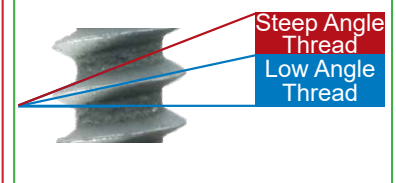
Problem

Ordinary metal-to-wood screws have steep angled threads that are easily overdriven causing back-out.



Solution

PANEL-TITE's low-angle thread helps keep the screw from loosening



MEETS FLORIDA BUILDING CODE 1506.6 & R904.5.2 (TRI-SEAL® & SS ONLY)

All screws are plated with TRI-SEAL® M1 1,000-hrs salt spray coating for superior corrosion protection

SIZES | BURR BUSTER® WITH TYPE 17 MILLED POINT

Can be painted with our Kalida-Kote paint finish to your exact color match.

Bagged 250pcs

#10-12 | CARBON STEEL | 1/4" HWH

Washer: .500" Dia. BondSealer 26ga G90 to EPDM



#12-12 | CARBON STEEL | 1/4" HWH

Washer: .562" Dia. BondSealer 26ga G90 to EPDM



#14-12 | CARBON STEEL | 5/16" HWH

Washer: .590" Dia. BondSealer 26ga G90 to EPDM



Size	Part #	Box Qty
#10-12 x 1" Burr-Buster CS / TS	10100HWBB17CSTSBW	4,000
#10-12 x 1-1/2" Burr-Buster CS / TS	10150HWBB17CSTSBW	2,500
#10-12 x 2" Burr-Buster CS / TS	10200HWBB17CSTSBW	2,000
#10-12 x 2-1/2" Burr-Buster CS / TS	10250HWBB17CSTSBW	1,500
#10-12 x 3" Burr-Buster CS / TS	10300HWBB17CSTSBW	1,000
#12-12 x 3/4" Burr-Buster CS / TS	12075HWBB17CSTSBW	4,000
#12-12 x 1" Burr-Buster CS / TS	12100HWBB17CSTSBW	4,000
#12-12 x 1-1/2" Burr-Buster CS / TS	12150HWBB17CSTSBW	2,500
#12-12 x 2" Burr-Buster CS / TS	12200HWBB17CSTSBW	2,000
#14-12 x 1" Burr-Buster CS / TS	14100HWBB17CSTSBW	2,500
#14-12 x 1-1/2" Burr-Buster CS / TS	14150HWBB17CSTSBW	2,000
#14-12 x 2" Burr-Buster CS / TS	14200HWBB17CSTSBW	1,500
#14-12 x 2-1/2" Burr-Buster CS / TS	14250HWBB17CSTSBW	1,000
#14-12 x 3" Burr-Buster CS / TS	14300HWBB17CSTSBW	1,000

TRI-SEAL® M1 1,000-hrs Salt Spray - No Red Rust

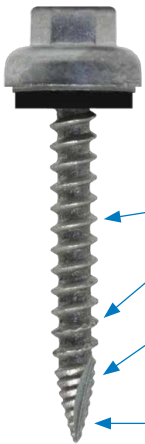
INSTALLATION

Use a 2,500 RPM screw-gun with torque control or depth sensing feature. Impact tools are not recommended.

*Pat. No.: 11,105,362

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FOR WARRANTED SYSTEMS & LONG-LIFE PERFORMANCE



PANEL-TITE® BURR BUSTER ZAC
Zinc Die Cast Head

- Use on 20yr warranty roof systems.
- Carbon steel shank with TRI-SEAL® M1 plating
- Provides outstanding corrosion protection.

- ← **LOW ANGLE THREAD**
Resists Loosening
- ← **SAW TOOTH THREAD**
Lower Tapping Torque
- ← **MILLED SLOT**
Penetrates Fast
- ← **BURR BUSTER® POINT**
Reduces Burrs and Chips

Penetrates up to 20ga Steel

Also Available
Stainless Cap Head
with Flange Sealer



PANEL-TITE® BURR BUSTER SS
304 Stainless Steel

- 304 SS BOND-SEALER washer
- Used in aluminum applications.
- Preferred screw for treated lumber.

Penetrates Steel up to 20 ga.

Patented Anti-burr Thread and Point Technology!*

Bagged 250pcs

#10-12 ZAC ZINC CAP HEAD | 5/16" HWH

Washer: .565" Dia. / Aluminum to EPDM



ZAC Zn/AL alloy head provides the best protection against galvanic corrosion. Preferred screw for used on Galvalume and Zinalume coated panels.



ZAC® ZINC CAP HEAD | TRI-SEAL® M1 COATED SHANK

Size	Part #	Box Qty	List Price
#10-12 x 1" Burr Buster	10100HWBB17CSTSZH	4,000	
#10-12 x 1-1/2" Burr-Buster	10150HWBB17CSTSZH	2,500	
#10-12 x 2" Burr Buster	10200HWBB17CSTSZH	2,000	
#10-12 x 2-1/2" Burr Buster	10250HWBB17CSTSZH	1,500	
#10-12 x 3" Burr Buster	10300HWBB17CSTSZH	1,000	

#10-12 SSC STAINLESS CAP HEAD | 1/4" HWH

Washer: .500" Dia. Undercut / EPDM Washer



#12-14 HIGH LOW TYPE 17 STAINLESS CAP HEAD | 5/16" HWH

Washer: .570" Dia. Undercut / EPDM Washer



#14-10 STAINLESS CAP HEAD | 5/16" HWH

Washer: .570" Dia. Undercut / EPDM Washer



Attach metal panels with a 1-1/2"- 2" high rib height. Great for replacing screws that are stripped!

STAINLESS STEEL CAP HEAD | TRI-SEAL® M1 COATED SHANK

Size	Part #	Box Qty	List Price
#10-12 x 1" Burr Buster	10100HWBB17CSTSSC	4,000	
#10-12 x 1-1/2" Burr-Buster	10150HWBB17CSTSSC	2,500	
#10-12 x 2" Burr Buster	10200HWBB17CSTSSC	2,000	
#10-12 x 2-1/2" Burr Buster	10250HWBB17CSTSSC	1,000	
#10-12 x 3" Burr Buster	10300HWBB17CSTSSC	1,000	
#12-14 x 1-1/2" Type 17	12150HW17CSTSSC	1,500	
#14-10 x 3-1/2" Type 17	14350HW17CSTSSC	1,000	

All ZAC and SSC screws are plated with TRI-SEAL® M1 1,000-hrs salt spray coating for superior corrosion protection

(Note: #14-10 x 3-1/2" Type 17 is coated with standard TRI-SEAL®)

304 STAINLESS STEEL | PASSIVATED & TRI-SEAL® COATED

Size	Part #	Box Qty	List Price
#10-12 x 1" Burr Buster	10100HWBB17S34BW	3,000	
#10-12 x 1-1/2" Burr Buster	10150HWBB17S34BW	2,500	
#10-12 x 2" Burr Buster	10200HWBB17S34BW	2,000	
#10-12 x 2-1/2" Burr Buster	10250HWBB17S34BW	1,500	
#10-12 x 3" Burr Buster	10300HWBB17S34BW	1,000	

#10-12 304 STAINLESS STEEL

Washer: Stainless Steel

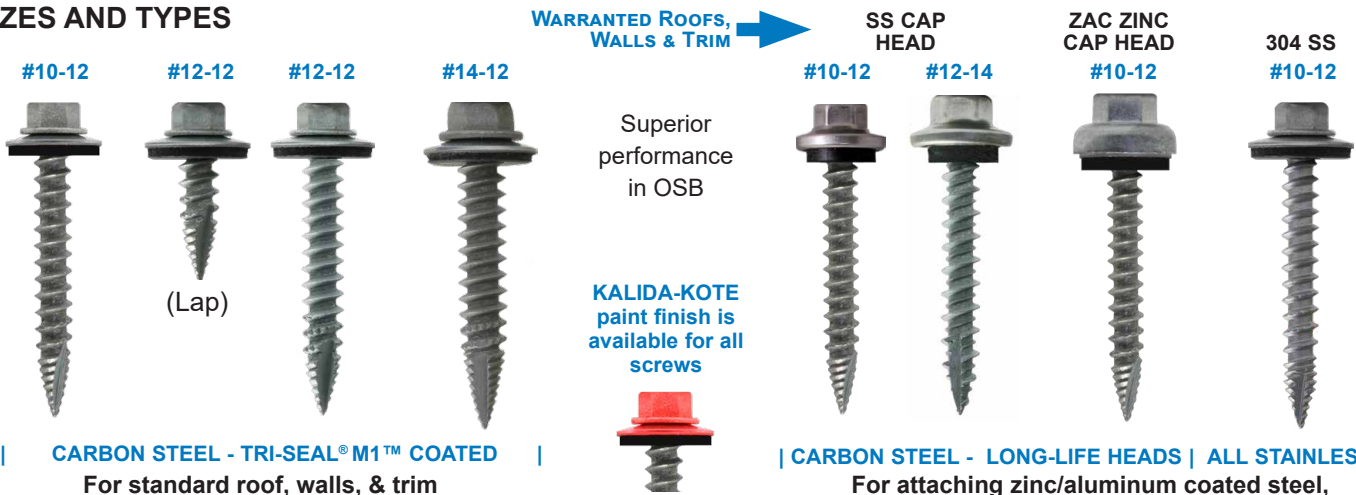


Diameter & Point: #10-12
Material: 304 Stainless Steel
Plating: Passivated & TRI-SEAL®
Head Style: 1/4" HWH
Thread: #10-12 Single Lead

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*Pat. No.: 11,105,362

SIZES AND TYPES



GENERAL SPECIFICATIONS

Strengths (Carbon Steel = CS and Stainless Steel = SS)

Size	Thread Major Dia.	Tensile (lbs. min)	Shear (avg. lbs. ult.)	Torsional (min. in. lbs.)
#10-12 304 SS BB	.190	1,950	1270	60
#10-12 CS BB	.190	1,850	1,216	65
#12-14 CS HL	.216	2,183	1,946	80
#12-12 CS BB	.216	2,183	1,946	80
#14-12 CS BB	.235	3,150	2,150	125

Hex Sizes

#10, #12 = 1/4" HWH
#14 = 5/16" HWH

Washer Diameters

#10 = 12.8mm OD
#12 = 14mm OD
#14 = 15mm OD

Patented Anti-burr Thread and Point Technology!*

*Pat. No.: 11,105,362

ZAC Zinc Heads: Zamac 5
SS Heads : 304 SS

MATERIAL SPECIFICATIONS

Material: Carbon Steel

Finish: TRI-SEAL® M1™ Long-life Plating (ACQ Compatible for use in treated lumber)

Material: 304 Stainless Steel

Finish: Passivated & TRI-SEAL® (Preferred for use in treated lumber)

Paint: Kalida-Kote Polyurethane with UV stabilizer.

Washer Types

Stainless Steel Screws

304SS vulcanized to non-conductive EPDM.

Carbon Steel Screws

G90 20ga Galvanized Steel vulcanized to non-conductive EPDM.

PERFORMANCE SPECIFICATIONS

Pullout Values in Wood (Carbon Steel or Stainless Steel)
Ultimate Average Load in Pounds Force



Fastener Dia. & Point	Wood Type							
	PLYWOOD-CDX				OSB			SYP
	11/32" 3/8" NOM	15/32" 1/2" NOM	19/32" 5/8" NOM	23/32" 3/4" NOM	7/16"	19/32"	23/32"	2 x 4
#10-12 BURR BUSTER		349	450	706	258	381	484	1059 1445*
#12-12 BURR BUSTER 1	249	418	467	608	218	383	573	1241 1491*
#12-8 Type 17 High Low		296	445	552	139	445	538	748
#14-12 BURR BUSTER 1	337		539	676	258	404		1169*

Report #T279-10 | Farabaugh Engineering and Testing | 9.30.2010

1Report #T213-20 | Farabaugh Engineering and Testing | 05.01.2020

#10-12 and #12-12 BB SYP tested in TFC Tech Center | 04.12.22

REV: JK0422

PULLOUT TEST SETUP - EMBEDMENT

2 x 4 = 1" embedment. * Denotes 1-1/2" penetration (Full Threads.)
All other tests full thread embedment.

Note: The specific gravity and variations in grain should be considered and affects the pullout. A minimum safety factor of 4 should be used.

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MEETS FLORIDA BUILDING CODE 1506.6 & R904.5.2
(TRI-SEAL® & SS ONLY).
Miami Dade Approved for < 1,000 hrs

Corrosion Test Results TRI-SEAL® M1 COATING

Testing Method	*Results
SO ₂ Test Per ASTM G87	20 Cycles (2 liters)
Salt Spray Per ASTM B117	1,000 hours

*0% Red Rust

Exceeds ASTM B633 Salt Spray requirements.

Pullover Strength in Pounds

Grade 50 per ASTM A1011 60Ksi Min. Steel

Washer Size	26ga (.019")	24ga (.023")	22ga (.031")	20ga (.035")	18ga (.049")
1/2" O.D.	810	1080	1350	1620	2160
9/16" O.D.	912	1216	1520	1824	2432
15mm O.D.	955	1274	1593	1912	2548

Calculated per AISI S100



PANEL-TITE BURR-BUSTER

Painted

We have a large selection of painted fasteners in-stock and ready for immediate shipment.
C-1022 Carbon Steel | Assembled with BONDED-SEAL Non-Conducted EPDM Sealing Washer
All screws are TRI-SEAL® Long-Life Coated with EPDM sealing washer for exceptional weatherability!

#10-12 x 1", 1-1/2", 2" BURR-BUSTER | TYPE 17 Milled Point



Sizes Available

Colors Available in Stock



X DENOTES IN STOCK

Length

TFC COLOR NAME	TFC PAINT CODE #	Panel Color Match	Length		
			1"	1-1/2"	2"
Ash Grey	ms25	Ash Grey #25 Metal Sales	X	X	X
Barn Red	ms24	Red #24 Metal Sales	X	X	X
Black	ms06	Black #06 Metal Sales		X	
Brown	ms12	Brown #12 Metal Sales		X	
Burgundy	ms15	Burgundy #15 Metal Sales		X	
Burnished Slate	ms49	Burnished Slate #49 Metal Sales		X	
Charcoal Grey	uc101	Steel Grey Union Corrugated	X	X	X
Crimson Red	mb34	Crimson Red MB34 MBCI		X	
Desert Sand	mb48	Desert Sand MB48 MBCI		X	
Emerald Green	ms66	Classic Green #66 Metal Sales	X	X	X
Fern Green	mb29	Fern Green MB29 MBCI		X	
Forest Green	ms26	Forrest Green #26 Metal Sales		X	
Gallery Blue	mb27	Cobalt Blue MB27 MBCI		X	
Hawaiian Blue	ms70	Hawaiian Blue #70 Metal Sales		X	
Ivory	ms28	Ivory #98 Metal Sales		X	
Light Stone	ms63	Light Stone #63 Metal Sales	X	X	X
Marine Green	ms69	Marine Green #69 Metal Sales		X	
New Ivory	mpiv	New Ivory Metal Panels Inc.		X	
Olde Towne Grey	ww950	Old Towne Grey Whirlwind		X	
Patina Green	ms58	Patina Green #58 Metal Sales		X	
Patriot Red	MS73	Patriot Red #73 Metal Sales		X	
Polar White	ms80	Polar White #80 Metal Sales	X	X	X
Sahara Tan	ms22	Mocha Tan #22 Metal Sales	X	X	X
Terra Cotta	pc39	Terra Cotta PC39 Peterson		X	

*NOTE: The actual colors will vary from these swatches due to variations in monitors and printers. Contact TFC for actual color samples.

**Don't see the color or size you need?
 We can match your specific color in 5 days or less!**



Specifically Formulated for Fasteners, Rivets, & Metal Closures

Triangle Fastener offers Kalida-Kote painting process, producing perfect color matched fasteners, rivets, and metal closure. We start by using a special formula polyurethane enamel with UV protection that is expertly color matched.

After spraying, we cure the finish by baking to produce a tough chip resistant finish assuring long-life. Kalida-Kote is compatible with Kynar paint finishes.

Specifications

Finish: Gloss Enamel 85 units minimum at 60 degrees
Exterior Catalyst

Thickness: 1.6 - 2.0 mils

Adhesion: ASTM D 3359 - Excellent
No peeling or removal

Impact Resistance: ASTM D 2794 Good: > 10 in.lbs.

Abrasion Resistance: ASTM D 4060 Good

Corrosion Resistance: Salt Spray - 1,000 hrs (< 5% red rust)
Kesternich - 30 cycles

KALIDA-KOTE™ is compatible with Kynar® paint finishes.



- Polyurethane enamel can be matched to any color and is UV resistant!
- Baked on finish provides a tough, chip resistant finish.
- Customized painting of metal closure and gutter straps.
- Special colors in 3 days or less!!

Abrasion & ME Abuse	Excellent	Acids	Excellent
Alkalis	Excellent	Color & Glass Retention	Excellent
Humidity	Excellent	Salts	Excellent
Solvents	Very Good	Weather	Excellent

Our 4-step process assures a perfect color match and durable finish!

STEP 1

Color Matching

We color match using a spectrophotometer that provides consistent color matching.

STEP 2

Priming

Special etching primer provides a superior base for the application of the paint.

STEP 3

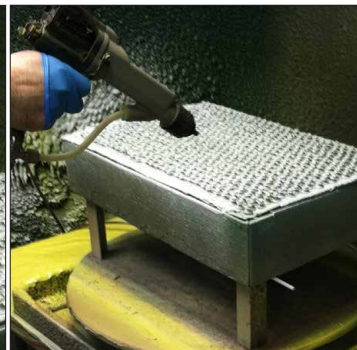
Spraying

Polyurethane enamel is applied uniformly to provide superior coverage.

STEP 4

CURING

We cure the paint to produce a tough chip resistant finish.

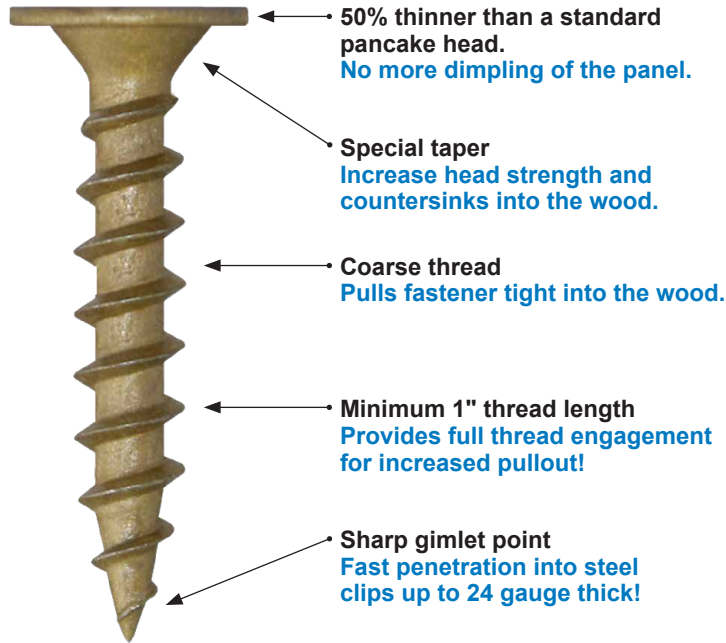


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FIND YOUR COLOR...AND ALL THE MATCHING TFC PRODUCTS!

MFG COLOR	MFG	TFC RIVET COLOR	TFC SEALANT COLOR	BLAZER® COLOR	PANEL-TITE® COLOR	TFC RIVET SIZE / P.N.
ALMOND	MBCI	ALMOND S0330				FBF43AL FBF44AL
ASCOT WHITE	ATAS	STONE WHITE S0348				FBF44SWH
ASH GRAY	MBCI	ASH GRAY S0850	ALUMINUM GRAY	ASH GRAY	ASH GRAY	FBF43AGY
BONE WHITE	MBCI	BONE WHITE	ANTIQUE WHITE			FBF43BNWH FBF44BWH
BRITE RED	MBCI	CRIMSON RED S1232	REGAL RED		CRIMSON RED	FBF43CRD
BROWNSTONE	MBCI	BROWNSTONE S0360	SIERRA TAN			FBF43BST
BURNISHED SLATE	MBCI	BURNISHED SLATE S0742	MEDIUM BRONZE (APS) DARK BRONZE (ULTRA)	BURNISHED SLATE	BURNISHED SLATE	FBF43BSL
CHAMPAGNE	DMI	CHAMPAGNE S1160				FBF43CPGE
CHARCOAL	METAL SALES	CHARCOAL GRAY S1151		CHARCOAL GRAY	CHARCOAL GRAY	FBF43CGY FBF44CHGY
CITYSCAPE	PAC CLAD	CITYSCAPE S0302	GRAY (APS) GUTTER GRAY (ULTRA)		OLD TOWN GRAY	FBF43CS
CLASSIC GREEN	MBCI	CLASSIC GREEN S0925		EMERALD GREEN	EMERALD GREEN	FBF43CGR FBF44CGR
COAL BLACK	MBCI	COAL BLACK S0423			BLACK	FBF43CLBLK
COBALT BLUE	MBCI	GALLERY BLUE S0545			GALLERY BLUE	FBF43GBL
COLONIAL RED	MBCI	COLONIAL RED S0847	COLONIAL RED (APS) RED (ULTRA)			FBF43CLRD FBF44CRD
COLONY GREEN	MBCI	COLONY GREEN S1047	PATINA GREEN	COLONY GREEN	PATINA GREEN	FBF43COGR
DARK BRONZE/ MIDNIGHT BRONZE	METAL SALES/ MBCI	DARK BRONZE S0324			MIDNIGHT BRONZE	FBF43DBZ FBF44DBZ
EVERGREEN	DMI	EVERGREEN S0487				FBF43EVGR
FERN GREEN	MBCI	FERN GREEN, HARTFORD GREEN S0798			FERN GREEN	FBF43FGR FBF44HGR
HARBOR BLUE	MBCI	HARBOR BLUE, ROYAL BLUE S0843	REGAL BLUE			FBF43HRBL FBF44RBL
HAWAIIAN BLUE	MBCI	HAWAIIAN BLUE S0112		HAWAIIAN BLUE	HAWAIIAN BLUE	FBF43HBL
KOKO BROWN	MBCI	KOKO BROWN, MANSARD BROWN S0110	REDWOOD		BROWN	FBF43KBRN FBF44MBRN
LIGHT STONE	MBCI	LIGHT STONE S0248	TAN	LIGHT STONE	LIGHT STONE	FBF43LST
MATTE BLACK	METAL SALES	MATTE BLACK S0507				FBF44MBLK
MEDIUM BRONZE	MBCI	MEDIUM BRONZE S0526				FBF43MBZ FBF44MBZ
SILVER METALLIC	MBCI	METALLIC SILVER S1161				FBF43MSL FBF44MS
POLAR WHITE	MBCI	POLAR WHITE S0001		POLAR WHITE	POLAR WHITE	FBF43PWH
RUSTIC RED	MBCI	RUSTIC RED S0890	TERRA COTTA		BARN RED	FBF43RRD
SADDLE TAN	MBCI	SAHARA /SADDLE S0320		SAHARA TAN		FBF43STN
SANDSTONE	DMI/ METAL SALES	SANDSTONE S0330	ALMOND			FBF43SDST FBF44SST
SIERRA TAN	PACCLAD/ METAL SALES	SIERRA TAN S0629			SAHARA TAN	FBF43SITN FBF44STN
SLATE GRAY	MBCI	SLATE GRAY S0275	SLATE GRAY			FBF43S6Y FBF44SGY
SNOW WHITE	MBCI	SNOW WHITE, SNOW DRIFT WHITE S0348				FBF43SWH FBF44SDWH
STONE/ DESERT SAND	DMI/ MBCI	DESERT SAND S0109	STONE	DESERT SAND	DESERT SAND	FBF43DS
TERRA COTTA	DMI	TERRA COTTA S1389			TERRA COTTA	FBF44TC
TUNDRA	MBCI	DOVE GRAY S0302				FBF44DGY
WEATHERED ZINC	PAC CLAD	WEATHERED ZINC S1483				FBF43WZ
WHITE	DMI	WHITE S0214	WHITE			FBF44WH

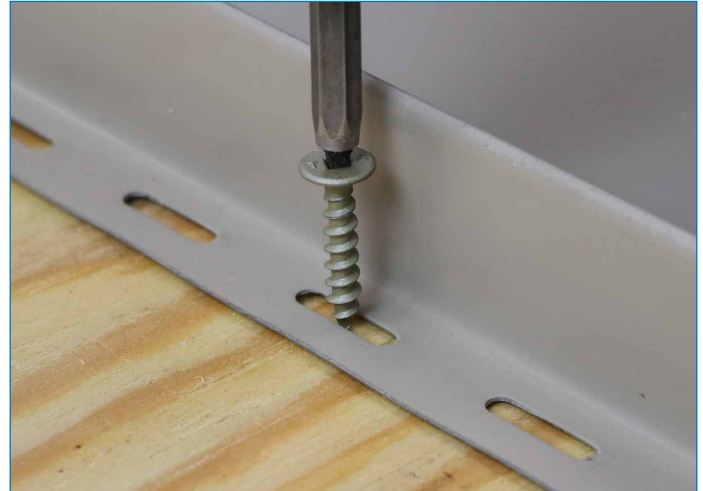
Need it Ultra Low?



Available in lengths up to 2-1/8"!

Trust the original Ultra Low Profile Screw!

The CONCEALOR® ULP screws are engineered to attach standing seam roof clips to wood. They are the preferred screw for attaching clip-less nail hem metal roof panels, are easy to install, and provide optimal strength. ULP's are supplied with TRI-SEAL® 1,000-hours salt spray coating which can be used in treated and fire treated lumber.



Bagged 250 pcs. per bag for your convenience!

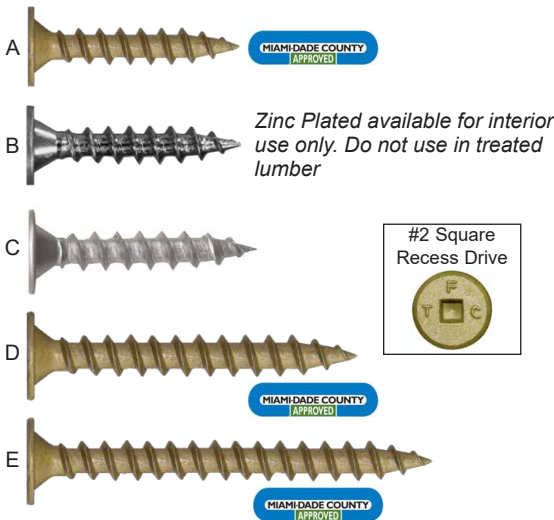
MEETS FLORIDA BUILDING CODE 1506.6 & R904.5.2 (TRI-SEAL® & SS ONLY)

Sizes

Pierce up to 20 ga steel

	Description	Part Number	Box Quantity	WT Per Box	Price
A	#10-9 X 1-1/8" ULP (CS) Long-life TRI-SEAL™ coated	10112SPCUGCSTS	5,000	31.0 lbs	
B	#10-9 X 1-1/8" ULP (CS) Zinc Plated Interior Use Only	10112SPCUGCSZP	5,000	31.0 lbs	
C	#10-9 X 1-1/8" ULP (410 SS) Passivated	101125PCUGS4	5,000	32.0 lbs.	
D	#10-9 X 1-5/8" ULP (CS) Long-life TRI-SEAL™ coated	1062SPCUGCSTS	3,000	34.0 lbs.	
E	#10-9 X 2-1/8" ULP (CS) Long-life TRI-SEAL™ coated	10212SPCUGCSTS	1,500	17.0 lbs.	

CS = Carbon Steel - C1018 / C1022
410 SS = 410 Stainless Steel



TECHNICAL INFORMATION

- Description: #10-9 Gimlet Point self-tapping screw
- Head Style: Ultra low pancake head with taper.
- Drive System: #2 square recess
- Head Thickness: .040"
- Material: C1022 carbon steel
410 Stainless steel
(Copper Roofing Compatible)
- Heat Treat: Case hardened to ANSI/ASME B18.6.4 specification
- Finish
Carbon Steel: TRI-SEAL™ long-life coating (1,000hrs. salt spray)
Stainless Steel: Passivated (48hrs. salt spray)

Thread Detail

- Major Diameter: .195"
- Minor Diameter: .125"
- Stress Area: .01267 in²

Pullout - Average Ultimate in Pounds

Fastener Dia. & Point	Wood Type						
	1/2" Plywood	5/8" Plywood	3/4" Plywood	7/16" OSB	19/32" OSB	23/32" OSB	2 x 4 SYP
#10-9 GP	383	395	574	136	356	514	813

Farabaugh Engineering Test: Project No. T279-10

Rev 040711

Fastener Strength

Torsional	60 lb-in
Tensile	1,520 lbs. min.
Shear	1,150 lbs. min.

Installation: Do not use impact drivers!
Use 2,500 RPM max variable speed screw drivers with torque control or depth sensing nosepiece.

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Specifically designed for use in oriented strand board



BURR BUSTER® Thread and Point produces 80% more pullout load compared to low root threads!

Low Angle Thread
Reduces over-driving, stripping, and increases resistance to loosening.

Saw Cut Thread
“Cuts” the OSB layers that enhances tapping of the thread.

BURR-BUSTER Point
Compresses the OSB layers during penetration to minimize delamination.

Bagged 250 pcs. per bag!

The CONCEALOR® screws with our patented BURR-BUSTER® point and thread technology are engineered for superior performance in OSB.

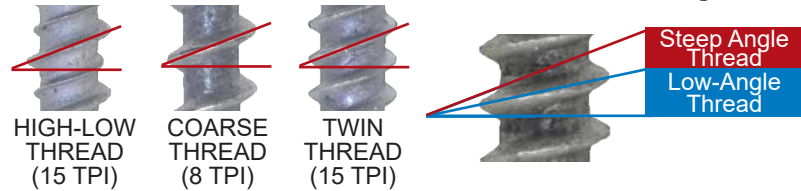
Supplied with TRI-SEAL® 1,000-hours salt spray coating for exceptional corrosion resistance.



Patented Anti-burr Thread and Point Technology!*

Ordinary metal-to-wood screws have steep angled threads that are easily over-driven and can back-out.

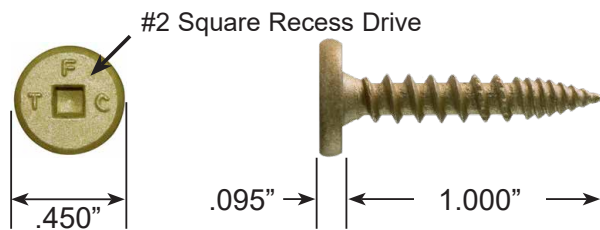
A low-angle thread helps keep the screw from loosening



SIZES

#10-12 x 1” with BURR-BUSTER Point.
Carbon Steel | TRI-SEAL COATED
Part Number: 10100SPCBBBCSTS

TECHNICAL INFORMATION



Pullout - Average Ultimate in Pounds

Fastener Dia. & Point	5/8” Ply	3/4” Ply	7/16” OSB	19/32” OSB	2x4 SYP
#10-12 Burr Buster	450	706	258	381	648*

Test Report # T279-17 & T299-17 | Farabaugh Engineering.

*NOTE: 1” embedment into face of 2x. Deeper embedment will increase pullout.

Fastener Strength

Size	Torsional (min. in-lbs)
#10-12	65

Corrosion Protection

CORROSION TESTING	Results
SO ₂ Test Per ASTM G87	20 Cycles
Salt Spray Per ASTM B117	1,000 hrs

TRI-SEAL® COATED | COMPATIBLE FOR USE IN TREATED LUMBER.

***Pat. No.: 11,105,362**

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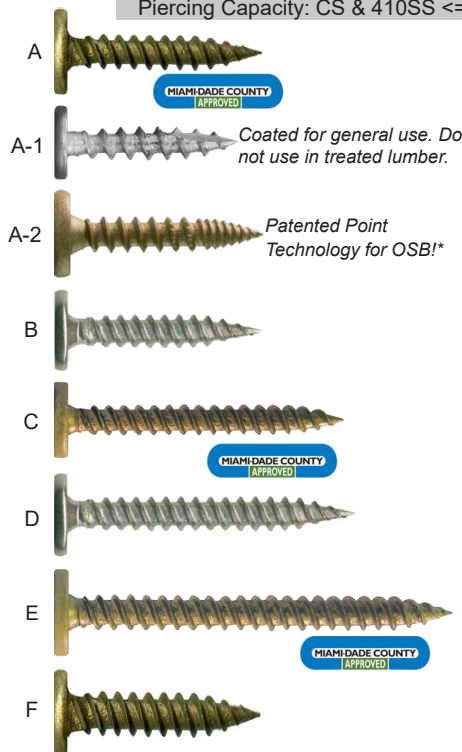
WOOD OR THIN METAL

Piercing Capacity: CS & 410SS <=20 ga

#10, #12, & 1/4" PIERCING POINTS AND DRILL POINTS

CONCEALOR® low profile head fasteners are engineered to perform in a variety of applications. They are specified in many metal roofing systems to attached SSR clips to metal or wood. They are easy to install and provides optimal strength.

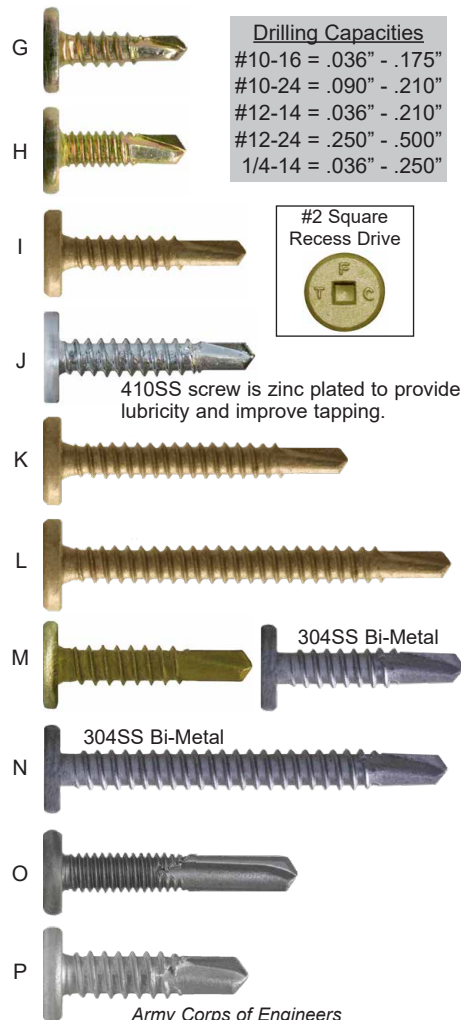
Bagged 250 pcs. per bag



SIZES MEETS FLORIDA BUILDING CODE 1506.6 & R904.5.2 (TRI-SEAL® & SS ONLY)

	Description	Load Bearing Length (Max)	Part Number	Box Quantity	WT Per Box
A	#10-13 X 1" GP Long-life TRI-SEAL® coated	*Note	10100SPCGCSTS	5,000 pcs	36.0 lbs.
A-1	#10-9 X 1" Type 17 Coated for general use	*Note	10100SPC17CSCZ	5,000 pcs	36.0 lbs.
A-2	#10-12 X 1" BURR BUSTER Long-life TRI-SEAL® coated	*Note	10100SPCGBBCSTS	5,000 pcs	36.0 lbs.
B	#10-13 X 1" GP 302 Stainless Steel	*Note	10100SPCGS3	5,000 pcs	39.0 lbs.
C	#10-13 X 1-1/2" GP Long-life TRI-SEAL® coated	*Note	10150SPCGCSTS	3,000 pcs	31.0 lbs.
D	#10-13 X 1-1/2" GP 302 Stainless Steel	*Note	10150SPCGS3	3,000 pcs	32 lbs.
E	#10-13 X 2" GP Long-life TRI-SEAL® coated	*Note	10200SPCGCSTS	1,500 pcs	19.0 lbs.
F	#12-11 X 1" GP Long-life TRI-SEAL® coated	*Note	12100SPCGCSTS	5,000 pcs	44.0 lbs.
G	#10-16 X 5/8" DP3 .0003" Zinc and Yellow	.125"	10062SPC3CS	5,000 pcs	27.0 lbs.
H	#10-24 X 5/8" DP3 .0003" Zinc and Yellow	.125"	10062SPC3CSYZ	5,000 pcs	27.0 lbs.
I	#10-16 X 1" DP3 Long-Life TRI-SEAL® coated	.500"	10100SPC3CSTS	5,000 pcs	37.0 lbs.
J	#10-16 X 1" DP3 410 Stainless Steel / ZP	.500"	10100SPC3S4	5,000 pcs	37.0 lbs.
K	#10-16 X 1-1/2" DP3 Long-Life TRI-SEAL® coated	1"	10150SPC3CSTS	3,000 pcs	32.0 lbs.
L	#10-16 X 2" DP3 Long-Life TRI-SEAL® coated	1.5"	10200SPC3CSTS	1,500 pcs	21.0 lbs.
M	#12-14 X 1" DP3 Long-Life TRI-SEAL® coated	.375"	12100SPC3CSTS	5,000 pcs	43.0 lbs.
	#12-14 X 1" DP3 304SS Bi-Metal	.375"	12100SPC3BM	5,000 pcs	43.0 lbs.
N	#12-14 X 2" DP3 304SS Bi-Metal	1.5"	12200SPC3BM	1,500 pcs	21.0 lbs.
O	#12-24 X 1-1/4" DP5 Long-Life TRI-SEAL® coated	.500"	12125SPC5CSTS	4,000 pcs	52.0 lbs.
	#12-24 X 1-1/2" DP5 Long-Life TRI-SEAL® coated	.625"	12150SPC5CSTS	4,000 pcs	43.8 lbs.
P	1/4-14 X 1" DP3 Long-Life TRI-SEAL® coated	.325"	14100SPC3CSTS	2,500 pcs	27.0 lbs.

METAL SUBSTRATES



* NOTE: For wood applications less than 1" thick, allow tip to extend beyond bottom of wood for optimal pullout strength. Screw length should be at least .3125" longer than the overall attachment length.

SPECIAL APPLICATIONS

Assemble CONCEALOR® with a bonded sealing washer that locks out weather!



We can color match to your exact requirements in three days or less!



Installation: Do NOT use impact drivers. Use 2,500 RPM max variable speed screw drivers with torque control or depth sensing nosepiece.

*Pat. No.: 11,105,362

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TFC VALUE PROPOSITION

Large Selection
Lengths to meet your application needs.

Best Quality
Assures low in-place cost.

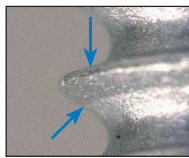
Fast Delivery / Need-it-Now!
Reduces your inventory costs.

SS Denotes available sizes in stainless steel **SS**

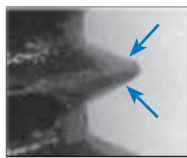
Here is why we use a special thread...

We use a buttress thread that provides exceptional clamping loads and is specified in many metal roofing systems to attached SSR clips over rigid insulation into metal deck.

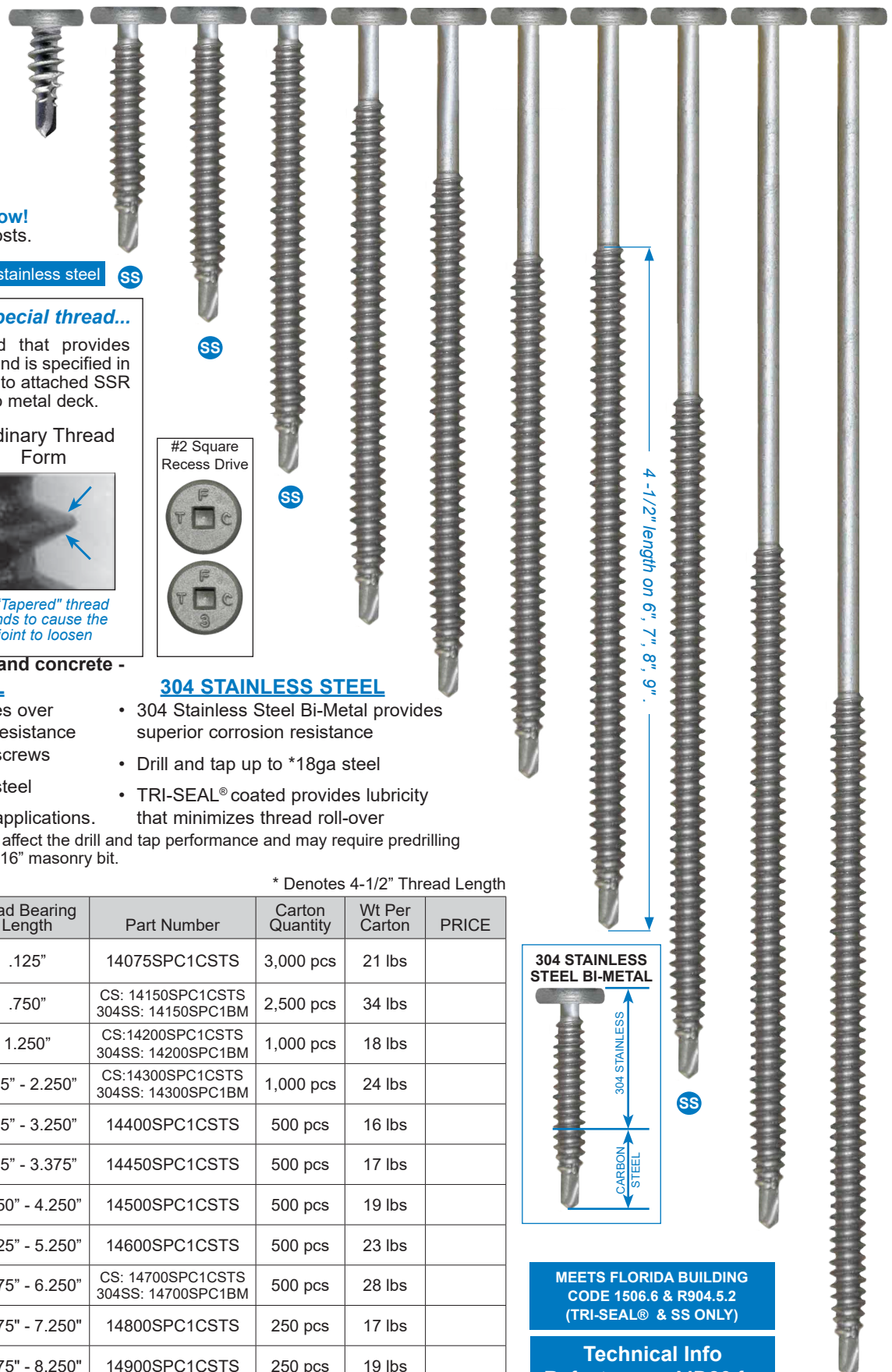
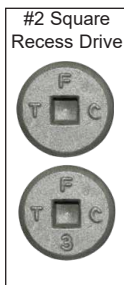
CONCEALOR® with Buttress Thread **Ordinary Thread Form**



"Flat" thread keeps the joint tight



A "Tapered" thread tends to cause the joint to loosen



- Attach to metal, wood, and concrete -
CARBON STEEL

- TRI-SEAL® coated provides over 10-times more corrosion resistance than black epoxy coated screws
- Drill and tap up to *16ga steel
- Can be used in concrete applications.

304 STAINLESS STEEL

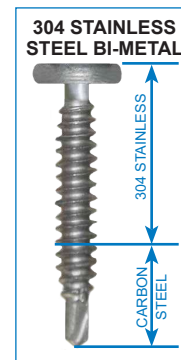
- 304 Stainless Steel Bi-Metal provides superior corrosion resistance
- Drill and tap up to *18ga steel
- TRI-SEAL® coated provides lubricity that minimizes thread roll-over

* The hardness of the steel can affect the drill and tap performance and may require predrilling
For concrete, predrill using a 3/16" masonry bit.

SIZES

* Denotes 4-1/2" Thread Length

Description	Load Bearing Length	Part Number	Carton Quantity	Wt Per Carton	PRICE
#14-13 x 3/4" DP1	.125"	14075SPC1CSTS	3,000 pcs	21 lbs	
#14-13 x 1-1/2" DP1	.750"	CS: 14150SPC1CSTS 304SS: 14150SPC1BM	2,500 pcs	34 lbs	
#14-13 x 2" DP1	1.250"	CS:14200SPC1CSTS 304SS: 14200SPC1BM	1,000 pcs	18 lbs	
#14-13 x 3" DP1	.125" - 2.250"	CS:14300SPC1CSTS 304SS: 14300SPC1BM	1,000 pcs	24 lbs	
#14-13 x 4" DP1	.125" - 3.250"	14400SPC1CSTS	500 pcs	16 lbs	
#14-13 x 4-1/2" DP1	.625" - 3.375"	14450SPC1CSTS	500 pcs	17 lbs	
#14-13 x 5" DP1*	1.250" - 4.250"	14500SPC1CSTS	500 pcs	19 lbs	
#14-13 x 6" DP1*	2.125" - 5.250"	14600SPC1CSTS	500 pcs	23 lbs	
#14-13 x 7" DP1*	3.875" - 6.250"	CS: 14700SPC1CSTS 304SS: 14700SPC1BM	500 pcs	28 lbs	
#14-13 x 8" DP1*	4.875" - 7.250"	14800SPC1CSTS	250 pcs	17 lbs	
#14-13 x 9" DP1*	5.875" - 8.250"	14900SPC1CSTS	250 pcs	19 lbs	



MEETS FLORIDA BUILDING CODE 1506.6 & R904.5.2 (TRI-SEAL® & SS ONLY)

Technical Info
Refer to page MD28 for complete technical data.

Installation: DO NOT USE IMPACT DRIVERS!

Use 2,500 RPM max variable speed screw drivers with torque control or depth sensing nosepiece.

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Pullout In Steel - Average Ultimate (lbs) (Carbon and Stainless Steel Screws)

Fastener Information (Drill Points)		PULLOUT ULTIMATE LOAD IN POUNDS Calculated Values In Accordance to AISI S100 Section E4													
Screw Size	Nom Dia. (in.)	Grade 50 per ASTM A1011 60Ksi Min. Steel					Grade 50 per ASTM A792/A653/A572/A529 65Ksi Min. Steel								
		26 Ga. (.018")	25 Ga. (.021")	24 Ga. (.024")	22 Ga. (.030")	20 Ga. (.036")	18 Ga. (.048")	16 Ga. (.060")	14 Ga. (.075")	12 Ga. (.105")	1/8" (.125")	10 ga (.135")	1/4" (.250")	3/8" (.375")	1/2" (.500")
#10-16	.190"	174	203	233	291	349	504	630	787	1102	1312				
#10-24	.190"								787	1102	1312				
#12-14	.216"	198	231	264	330	397	573	716	895	1253	1492	1611			
#12-24	.216"									1492	1611	2984	*4475	*5967	
#14-13	.235"	216	252	288	360	431	623	779							
1/4-14	.250"							829	1036	1450	1727	1865	3453	*5180	*6906

Tested values are available upon request.
Revised: 0220AR

NOTE: * exceeds tensile strength of the screw.

PULLOVER

Screw	Tee Clip 24 ga. (Ave. Ultimate)	Zee Clip 24 ga. (Ave. Ultimate)
#10	415 lbs.	510 lbs.
#12	430 lbs.	692 lbs.
#14 DP1	407 lbs.	677 lbs.

* Berridge Clips
REV.JES082712

APPROVALS

Factory Mutual: 1/4-14 DP3 CONCEALOR.
FM Approval Standard 4481 Class 1 - Wall Fastener
Miami Date: #10 GP CONCEALOR

MEETS FLORIDA BUILDING CODE 1506.6
& R904.5.2 (TRI-SEAL® & SS ONLY)

Pullout In Wood - Average Ultimate (lbs)

Screw Size and Point type	PLYWOOD - CDX			OSB			SYP
	15/32" (1/2" Nom)	19/32" (5/8" Nom)	23/32" (3/4" Nom)	7/16"	19/32"	23/32"	2 x 4
#10-9 GP	383	395	574	136	256	514	813
#10-12 BB *		450	706	258	381		648*
#10-13 GP	375	505	654	166	357	442	737
#12-11 GP	418	455	624	*164	379	573	918
#14-13 DP1	434	475	626	153	327	457	991

Farabaugh Engineering Test: Project No. T279-10 & * T282-15 REV JS042220



Decking fasteners tested with full thread embedment. 2 x 4 SYP with 1" embedment in side

* Test Report # T279-17 & T299-17 | Farabaugh Engineering.
NOTE: * 1" embedment into face of 2x. Deeper embedment will increase pullout.

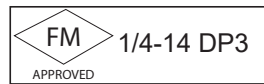
Pullout In Concrete - Average Ultimate (lbs)

Fastener Dia. & Point	3,000 psi Concrete
	1" Embedment
#14-13 DP1	740 lbs.

TF Test: 10.15.09

Drill Bit Size: 3/16" Masonry Bit. Depth of hole > 2".
(Screw should not exceed 1" embedment.)

REV JS1218



PERFORMANCE SPECIFICATIONS

Fastener Diameter & Material	Minimum Ultimate			
	Thread Diameter	Tensile (lbs.)	Shear (lbs.)	Torsional (lbs-in)
#10-9 / Carbon	0.200"	1,520	1,150	60
#10-9 / 410SS	0.200"	2,500	1,625	85
#10-13 / Carbon	0.195"	1,725	1,125	60
#10-13 / 302SS	0.195"	1,040	701	45
#10-16 / Carbon	0.186"	2,100	1,400	61
#10-16 / 410SS	0.186"	3,200	2,130	92
#12-11 / Carbon	0.220"	2,500	2,000	95
#12-14 / Carbon	0.212"	2,778	2,000	100
#12-14 / 304SS	0.212"	2,630	1,978	85
#12-24 / Carbon	0.213"	3,450	2,420	110
1/4-14 / Carbon	0.243"	3,850	2,600	150
#14-13 / Carbon	0.235"	2,600	1,500	95
#14-13 / 304SS	0.235"	2,000	1,200	77

FASTENER PROPERTIES

REV JS0120

Thread Type and Point	Thread Major Dia.	Material	Head Dia.	Head Thickness	Drive	Finish
#10-16 DP2	.180"	C1022	.450"	.095"	#2 Sq	.0003" Zinc & Yellow
#10-24 DP3	.185"	C1022	.450"	.095"	#2 Sq	.0003" Zinc & Yellow
#10-12 BB	.185"	C1022	.450"	.095"	#2 Sq	TRI-SEAL® Coated
#10-13 GP	.190"	C1022 302 SS	.450"	.095"	#2 Sq	CS: TRI-SEAL® Coated SS: Passivated
#10-16 DP3	.180"	C1022 410 SS	.450"	.095"	#2 Sq	CS: TRI-SEAL® Coated SS: .0002" Zinc & Clear for lubricity
#10-9 GP (ULP)	.200"	C1022 410 SS	.450"	.040"	#2 Sq	TRI-SEAL® Coated Passivated
#12-11 GP	.220"	C1022 302 SS	.450"	.095"	#2 Sq	CS: TRI-SEAL® Coated SS: Passivated
#12-14 DP3 (SD300)	.210"	C1022 304 SS	.450"	.080"	#2 Sq	.0003" Zinc & Yellow TRI-SEAL Coated
#12-24 DP5	.210"	C1022	.450"	.095"	#3 Sq	.0003" Zinc & Yellow TRI-SEAL® Coated
#14-13 DP1	.235"	C1022 304SS	.500"	.095"	#2 Sq	CS: TRI-SEAL® Coated SS: Passivated & Coated for lubricity
1/4-14 DP3	.245"	C1022	.500" (1") .625" (>2")	.095"	#2 Sq #3 Sq	TRI-SEAL® Coated

SALT SPRAY

The chart below provides general corrosion information about various plating and coatings. Contact TFC for detailed information.

SALT SPRAY Per ASTM F1941 & B117 (0% red rust)

Rev. 120313

Coating	Salt Spray
.0002" min. (6um) zinc plating with clear chromate	24hrs
.0002" Zinc Plating / Coated	60hrs
.0005" min. (12 um) zinc plating with clear chromate	72hrs
.0003" min. (8 um) zinc plating with yellow dichromate	120hrs
.0002" Zinc Plated 410 Stainless Steel	450hrs
Passivated Coated 410 Stainless Steel	500hrs
TRI-SEAL™ Long-life coating	1,000hrs
Passivated 302 & 304 SS	>2,000hrs

NOTE: 304SS and 410SS screws are zinc plated or TRI-SEAL® coated to provide lubricity and improve tapping performance.

TOOLING | Do not use impact tools!

Screw-gun RPM

Carbon Steel & 410SS Screws: 2,500 RPM Max.

DP5, 1/4" & 5/16" DP3: 2,000 RPM Max.

302 & 304 Stainless Steel Tapping Screws: 1,000 RPM Max.

For optimal performance, use screw-guns with torque control feature.

DO NOT OVER-TORQUE FASTENERS.

Fastening Tips

- A minimum of 3 factors of safety should be used for most self-drilling or self-tapping fasteners in metal | 5-6 for wood. Consult a design professional for appropriate values.
- Install fastener perpendicular to the work surface and tighten to no more than approximately 70% of the torsional strength.
- Allow at least three full threads to extend beyond the material. For wood applications, allow 1" minimum embedment or full thread embedment in plywood and OSB for optimal pullout resistance.

FASTENER MATERIAL SELECTION BASED ON THE GALVANIC SERIES OF METALS

BASE METAL		FASTENER MATERIAL			
		STEEL Zinc Plated	STAINLESS STEEL Type 410	STAINLESS STEEL Type 302, 304, 316	ALUMINUM
Zinc Galvanized ZN/Al Coated Steel	Aluminum	A	Not Recommended	B	A
	Steel / Cast Iron	A,D	C	B	A
	Brass, Copper, Bronze	A,D,E	A	B	A,E
	Stainless Steel 300 Series	A,D,E	A	A	A,E

Key

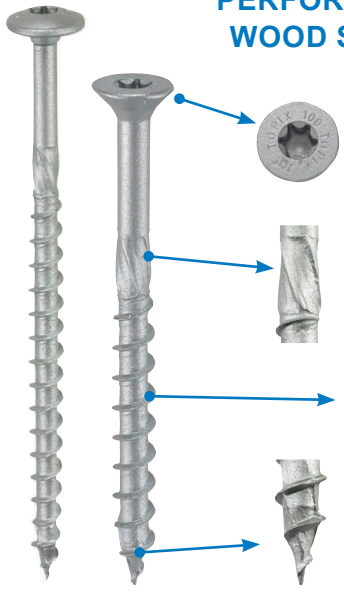
- The corrosion of the base metal is not increased by the fastener.
- The corrosion of the base metal is slightly increased by the fastener.
- The corrosion of the base metal may be considerably increased by the fastener material.
- The plating on the fastener is rapidly consumed.
- The corrosion of the fastener is increased by the base metal.

*NOTE: Marine environments can cause galvanic corrosion. Consult panel manufacture for compatible fasteners to minimize galvanic corrosion.

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ConnexTite™

ENGINEERED TO BE THE BEST
PERFORMING STRUCTURAL
WOOD SCREW AVAILABLE



FEATURES & BENEFITS

TORX recess drive provides optimal driving stability and eliminates cam-out of drive bit.

Knurled shank reams the wood during installation that reduces tapping torque.

Superior corrosion protection with TRI-SEAL® 1,000 hrs. coating exceeds performance of HDG per ASTM A153.

Special ribs located in the point reduced the spilling of wood.

REPLACES LAG SCREWS | NO PRE-DRILLING REQUIRED!

TECHNICAL INFORMATION

Dimensions and strength details

HEAD STYLE	Nominal Fastener Diameter	Head Size		Shank Diameter ¹ (in.)	Thread Dia.	Nominal Bending Yield (F _y , psi)			Allowable Fastener Strength ³	
		Diameter (in.)	Height (in.)			Major	Transition Zone	Shank	Tensile (lbs)	Shear (lbs)
Flange	1/4"	0.552	0.094	0.173	0.244	201,611	237,010	970	485	
	5/16"	0.709	0.148	0.228	0.315	167,894	178,866	1810	905	
Countersunk	5/16"	0.583	-	0.228	0.315	167,894	178,866	1810	905	

Withdrawal design values | Face grain applications

Allowable Withdrawal Design Values by Species (Specific Gravity) (lbs.)

Nominal Fastener Diameter	Face Grain Applications		
	SPF (.42)	DF (.50)	SP (.55)
1/4"	95	135	220
5/16"	120	180	255

1. Values stated in lbf for each 1-inch of thread engagement.
2. Fastener embedment of 1-inch in the main member includes the tip.
3. Values shall be adjusted by all applicable adjustment factors per NDS Section 10.3 for wood screws.

Head pull-through design values

Min. Side Member Thickness (in.)	Nominal Fastener Diameter (in.)	Flange Head Diameter (in.)	Countersunk Head Diameter (in.)	SPF (.42)		DF (.50)		SP (.55)	
				Flange	CSNK	Flange	CSNK	Flange	CSNK
3/4"	1/4"	0.552	0.457	155	130	220	185	265	225
	5/16"	0.705	0.583	195	165	275	235	335	280
1-1/2"	1/4"	0.552	0.457	310	265	440	370	535	450
	5/16"	0.705	0.583	390	330	550	465	670	565

Lateral design values using dimensional lumber

Fastener Head Type	Nominal Fastener Diameter	Fastener Length	Side Member Thickness	Min. Penetration into Main Member (in.)	Lateral Design Values (lbs.) by Species (Specific Gravity) & Load Orientation					
					SPF (.42)		DF (.50)		SP (.55)	
					Z Para	Z Perp	Z Para	Z Perp	Z Para	Z Perp
Flange	1/4"	2-3/8"	1-1/2"	7/8"	115	90	140	110	160	125
		2-3/4"		130	105	165	135	190	155	
		3-1/8"		145	115	175	140	190	155	
		4"		145	115	175	140	190	155	
		> 4-3/4"		145	115	175	140	190	155	
	5/16"	2-3/4"		1-1/4"	155	125	215	170	525	550
		3-1/8"		1-5/8"	175	140	245	195	525	550
		4"		2-1/2"	195	155	245	195	525	550
		4-3/4"		3-1/4"	195	155	245	195	525	550
		> 5-1/2"		4"	195	155	245	195	525	550
Countersunk	5/16"	3-1/8"	1-5/8"	175	140	245	195	285	225	
		3-1/2"	2"	195	155	245	195	285	225	
		>4"	2-1/2"	195	155	245	195	285	225	

1. Reference lateral design values apply to two-member single shear connections where both members are of the same specific gravity, and the fastener is oriented perpendicular to grain. Where the members are of different specific gravities, use the lower of the two.
2. Values shall be adjusted by all applicable adjustment factors per NDS Section 10.3 for withdrawal of wood screws.

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FASTENING SYSTEMS AND SOLUTIONS FOR CONSTRUCTION

SIZES

FLANGE HEAD

Diameter	Length	Drive	Thread	Quantity	P.N.
1/4"	1-1/2"	T25	Full	2000	1616376
1/4"	2-3/4"			800	1616377
5/16"	2-3/4"	T40	Part	500	1616378
5/16"	3-1/8"		Full	500	1616379
5/16"	4"		Part	400	1616380
5/16"	5-1/2"		Part	300	1616381

COUNTERSUNK HEAD

Diameter	Length	Drive	Thread	Quantity	P.N.
5/16"	2-3/4"	T40	Part	500	1618649
5/16"	4"			400	1618650

Attach brackets to wood or splice wood-to-wood



- Trusses
- Joists
- Stair stringers
- Headers
- Support frames
- SIPS
- Columns
- Purlins
- Engineered lumber
- Deck framing

Evaluation Report: TER 1609-08
TER 1609-08 is a code compliance report that was written, published, and can be PE stamped by DrJ Engineering.

Contact TFC for more information.



WOOD DECK ATTACHMENT SCREWS & MISCELLANEOUS WOOD CONNECTIONS

Full line of high performance wood deck fasteners



DEK-IT WOOD SCREWS | TYPE 17 MILLED POINT TRI-SEAL COATED | SQ/PHIL COMBO DRIVE

- Exterior wood screw for outdoor applications including decks, treated wood, patios and fencing.
- TRI-SEAL coated formulated for ACQ treated lumber!

SIZES

Carbon Steel

Size	Carton Quantity	Drive Style	Carton Weight (lbs.)
6 x 1"	10M	+	32
6 x 1-1/4"	8M	+ / □	30
6 x 1-5/8"	5M	+ / □	24
6 x 2"	3.5M	+ / □	21
8 x 2-1/2"	2.5M	+ / □	24
8 x 3"	2M	+ / □	24
10 x 3-1/2"	1.5M	+ / □	28
10 x 4"	1M	+ / □	24
10 x 5"	1M	+	27
10 x 6"	1M	+	30



305 Stainless Steel

- 305 stainless steel coarse thread deck screw, #2 square drive, type 17 point.
- Exterior wood screw for outdoor applications including desks, treated wood, patios and fencing applications that require a high degree of corrosion resistance.
- For best possible corrosion resistance in ACQ Treated Lumber!
- Type 17 point provides superior penetration through the hardest of woods.
- 305 stainless steel provides maximum strength with superior corrosion protection.

SIZES

305 Stainless Steel

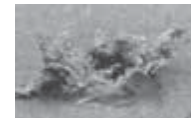
Size	Carton Quantity	Carton Weight (lbs.)
8 x 1-1/4"	5M	28
8 x 1-5/8"	4M	29
8 x 2"	3M	25
10 x 2-1/2"	2M	25
10 x 3"	1.5M	23
10 x 3-1/2"	1M	18



Composite Deck Screws - COATED

- For flush mounting of the fasteners without mushrooming!
- SIZE: #10 x 2-3/4"

Ordinary Bugle Head



Seats Flush



Performance Data

Corrosion Resistance

Kesternich Results (DIN 50018, 2.0L)

- 25 Cycles - 10% or less red rust

Salt Spray Results (ASTM B117)

- 1000 hours - No red red rust

Pullout Values (average pounds ultimate)
Embedment 2" x 4" Stud Grade S.Y. Pine

SCREW DIA.	EMBEDMENT DEPTH			
	1/2"	3/4"	1"	1-1/4"
#6	182	329	422	620
#8	186	290	502	645
#10	241	386	522	721

Note: The values listed are ultimate averages achieved under laboratory conditions. An appropriate safety factor should be applied in these values to achieve a design value.

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Largest Selection of Painted Rivets...**IN STOCK!**

- #43 and #44 Stainless Steel
- Over 50 colors in-stock for same day ship!
- Chip resistant paint is formulated to resist fading caused by UV rays.
- 250 pieces per bag for easy handling.

WE'LL SHIP ONE BAG!

Popular Sizes and Technical Information

Body Dia.	Rivet #	Grip Range	Rivet Length	Head Dia.	Head Height	Drill Hole
1/8"	43	.126 - .187	.337	.250	.040	#30 (.129" - .133")
	44	.188 - .250	.400			
3/16"	63	.126 - .187	.337	.375	.060	#11 (.192 - .196")
	64	.188 - .250	.400			

BLIND RIVETS | DOMED HEAD
TFC standard rivets are all stainless, all aluminum or all steel

Use the correct hole size to assure the rivet performs properly. Refer to size chart for hole size.

Drill Bit Type
High Speed / 135° Split Point

Pullout in Steel

1/8" BLIND RIVET (#42, #43, #44) STAINLESS STEEL					
	Steel Thickness and Tensile				
	0.021"	0.032"	0.047"	0.074"	
	49 ksi	44 ksi	112 ksi	63 ksi	66 ksi
PULLOUT (lbs)	106 ¹	175 ¹	571 ¹	647 ²	631 ²

Farabaugh Report: T311-16

Pullover in Steel

1/8" BLIND RIVET (#42, #43, #44) STAINLESS STEEL			
	Steel Thickness and Tensile		
	0.021"	0.032"	0.074"
	49 ksi	44 ksi	66 ksi
PULLOVER (lbs)	306 ¹	425 ¹	644 ²

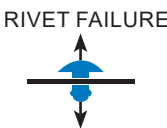
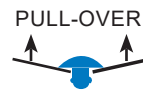
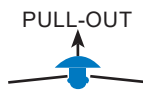
Farabaugh Report: T175-21

Rivet Strengths

RIVET	Tensile	Shear
1/8" SS	600	520
1/8" AL	180	150
3/16" SS	1300	1150
3/16" AL	700	440

Country of Origin: USA

Packaging
Carton: 10,000 pcs
Bagged: 250 pcs



FAILURE MODES
1. Pullover or Pullout
2. Rivet

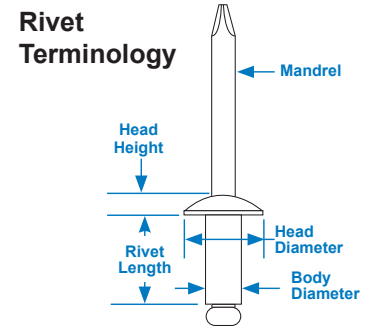
Pullout in Aluminum

1/8" BLIND RIVET (#42, #43, #44)		
ALUMINIUM THICKNESS (6063 T5)	0.040"	0.125"
STAINLESS RIVET PULLOUT (lbs)	102 ¹	561 ¹
ALUMINIUM RIVET PULLOUT (LBS)	103 ¹	194 ²

3/16" BLIND RIVET (#62, #63, #64)		
ALUMINIUM THICKNESS (6063 T5)	.040"	0.125"
STAINLESS RIVET PULLOUT (lbs)	124 ¹	1,082 ¹
ALUMINIUM RIVET PULLOUT (lbs)	128 ¹	512 ²

Farabaugh Report: T220-16 & T305-20

All tests conducted at Farabaugh Engineering and Testing



Tools

Milwaukee® M12™ Tool 12 Volt Cordless



Delivers fast, easy riveting while maintaining performance, durability, and consistency.

Model: M12 - 2550-22 Tool Kit

Capability | One full Charge
3/16" stainless steel rivets (250 rivets)
1/8" steel rivets (450 rivets)



Tool Kit includes battery, charger, bag.

Manual

The Rivet King model RK-65 hand rivet tool can set blind rivets up to 3/16" in diameter.



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FIND YOUR COLOR...SELECT THE RIVET!

COLOR	MFG	SIZE / P.N.	TFC COLOR	SWATCH
ALMOND	MBCI	FBF43AL FBF44AL	ALMOND S0330	
ASCOT WHITE	ATAS	FBF44SWH	STONE WHITE S0348	
ASH GRAY	MBCI	FBF43AGY	ASH GRAY S0850	
BONE WHITE	MBCI	FBF43BNWH FBF44BWH	BONE WHITE	
BRITE RED	MBCI	FBF43CRD	CRIMSON RED S1232	
BROWNSTONE	MBCI	FBF43BST	BROWNSTONE S0360	
BURNISHED SLATE	MBCI	FBF43BSL	BURNISHED SLATE S0742	
CHAMPAGNE	DMI	FBF43CPGE	CHAMPAGNE S1160	
CHARCOAL	METAL SALES	FBF43CGY FBF44CHGY	CHARCOAL GRAY S1151	
CITYSCAPE	PAC CLAD	FBF43CS	CITYSCAPE S0302	
CLASSIC GREEN	MBCI	FBF43CGR FBF44CGR	CLASSIC GREEN S0925	
COAL BLACK	MBCI	FBF43CLBLK	COAL BLACK S0423	
COBALT BLUE	MBCI	FBF43GBL	GALLERY BLUE S0545	
COLONIAL RED	MBCI	FBF43CLRD FBF44CRD	COLONIAL RED S0847	
COLONY GREEN	MBCI	FBF43COGR	COLONY GREEN S1047	
DARK BRONZE/ MIDNIGHT BRONZE	METAL SALES/ MBCI	FBF43DBZ FBF44DBZ	DARK BRONZE S0324	
DESERT SAND/ STONE	MBCI/DMI	FBF43DS	DESERT SAND S0109	
EVERGREEN	DMI	FBF43EVGR	EVERGREEN S0487	
FERN GREEN	MBCI	FBF43FGR FBF44HGR	FERN GREEN HARTFORD GREEN S0798	

COLOR	MFG	SIZE / P.N.	TFC COLOR	SWATCH
HARBOR BLUE	MBCI	FBF43HRBL FBF44RBL	HARBOR BLUE ROYAL BLUE S0843	
HAWAIIAN BLUE	MBCI	FBF43HBL	HAWAIIAN BLUE S0112	
KOKO BROWN	MBCI	FBF43KBRN FBF44MBRN	KOKO BROWN MANSARD BROWN S0110	
LIGHT STONE	MBCI	FBF43LST	LIGHT STONE S0248	
MATTE BLACK	METAL SALES	FBF44MBLK	MATTE BLACS0507	
MEDIUM BRONZE	MBCI	FBF43MBZ FBF44MBZ	MEDIUM BRONZE S0526	
SILVER METALLIC	MBCI	FBF43MSL FBF44MS	METALLIC SILVER S1161	
POLAR WHITE	MBCI	FBF43PWH	POLAR WHITE S0001	
RUSTIC RED	MBCI	FBF43RRD	RUSTIC RED S0890	
SADDLE TAN	MBCI	FBF43STN	SAHARA /SADDLE S0320	
SANDSTONE	DMI METAL SALES	FBF43SDST FBF44SST	SANDSTONE S0330	
SIERRA TAN	PACCLAD METAL SALES	FBF43SITN FBF44STN	SIERRA TAN S0629	
SLATE GRAY	MBCI	FBF43S6Y FBF44SGY	SLATE GRAY S0275	
SNOW WHITE	MBCI	FBF43SWH FBF44SDWH	SNOW WHITE SNOW DRIFT WHITE S0348	
TERRA COTTA	DMI	FBF44TC	TERRA COTTA S1389	
TUNDRA	MBCI	FBF44DGY	DOVE GRAY S0302	
WEATHERED ZINC	PAC CLAD	FBF43WZ	WEATHERED ZINC S1483	
WHITE	DMI	FBF44WH	WHITE S0214	

Can't find your color? Contact us! We may have what you need...or we can paint it in-house!

NOTE: Colors swatches do not match the actual rivet due to printing variation. Contact TFC for samples.



Grommet Seal Fasteners are compression fasteners used in side-lap applications which utilize fiberglass, plastic or composite sheeting.

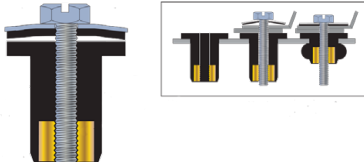
Sizes and Specifications

Grommet Size	1/4" x 1"	3/8" x 1"
Body Length	.948	.812
Nut Insert	6-32	10-32
Durometer (sleeve)	70	60
Ultimate Tensile	50 lbs.	80 lbs.

*Also available in 316 stainless steel.

Installation

The grommet is installed by placing it into a pre-drilled 1/4" or 3/8" hole and tightened using a screw gun with a standard 1/4" or 5/16" socket. The machine screw engages the nut insert, forcing the sleeve to expand against the inner wall of the materials. Grommets become an excellent sealant against air, moisture and vibration.



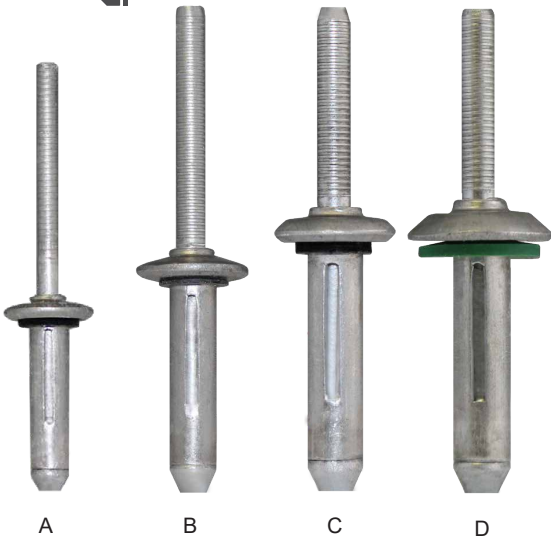
Machine Screw Size	6-32" x 1"	10-32" x 1"
Hex Size	1/4"	5/16"
Material	302 HQ	302 HQ
Bonded Washer	304 SS/EPDM	304 SS/EPDM
Sleeve	EPDM	EPDM
Nut Insert	Brass	Brass
Recommended		
Hole Size	.250	.375
Grip Range	.375-.607	.312-.450



More than forty years ago, the first Bulb-Tite® was developed to solve application requirements in the pre-engineered metal building, roofing and siding industry.

The Bulb-Tite® rivet body folds into three separate legs forming a large blind-side head. This large bearing head evenly distributes the Bulb-Tite® high clamp force in soft, thin or brittle materials while providing high pull through resistance. The Bulb-Tite® wide grip range enables a single Bulb-Tite® to work in a greater variation of thickness. Some versions of the Bulb-Tite® feature a special flush break mandrel that effectively seals the rivet bore and adds greater shear strength.

The standard Bulb-Tite® rivets are made of aluminum alloy, providing a durable non-rusting fastener that can withstand weather-related corrosion.



Bulb-Tite® Rivets handle your attaching problems with ease providing greater pull-through.



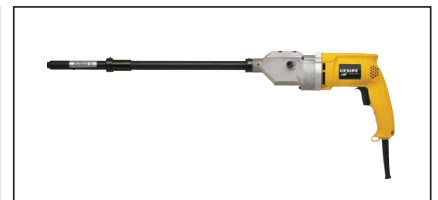
Sizes

With Sealing washer

	DIAMETER	TFC Part Number	GRIP	HOLE SIZE	SHEAR	TENSILE
A	3/16"	RV6604-6-4W	.062" - .250"	.209" - .221" (#4)	675	450
B	1/4"	RV6604-8-6W	.062" - .250"	.250" - .263" (1/4")	1,100	675
C	9/32"	RV6603-9-6W	.032" - .375"	.308" - .327" (5/16")	1,500	1,100
D	9/32"	RV6605-9-6W	.042" - .375"	.308" - .327" (5/16")	1,500	1,100

TOOLS

Tools designed to install Bulb-Tite® Rivets in metal clad building application.



Contact TFC for availability!

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PIPE-MASTER PIPE FLASHING

Standard Applications



- Flexible, weather resistant EPDM rubber or silicone.
- Aluminum base is flexible to conform to any panel profile
- Grey EPDM is ozone and ultraviolet resistant

Fastening Recommendation



Corrosion resistant fasteners should be used around the base one every 1-1/2 inches as per the United Plumbing Code (UPC) recommendations. Refer to size chart for the quantity to use.

1/4-14 x 1-1/8" DP1 BLAZER Stainless Cap Head with VRT Technology

Sealant Recommendation



Ultra 1000® or APS 500 sealant should be used under the base to assure a proper seal. If you prefer, additional sealant can be applied around base after installation.

Pipe Size Outside Diameter	Flash Number	Flashing Details	TFC Part Number	Number of Fasteners
1/4" - 2 1/2" EPDM	#1	Top Opening Diameter: Closed Overall Height: 2.77" Base Diameter: 4.75"	001DEKR	10
1 3/4" - 3" EPDM	#2	Top Opening Diameter: 1.44" Overall Height: 3.53" Base Diameter: 6.21"	002DEKR	13
1/4" - 5" EPDM *Silicone	#3	Top Opening Diameter: Closed Overall Height: 3.64" Base Diameter: 7.74"	003DEKR 003DEKS	16 16
3" - 6 1/4" EPDM	#4	Top Opening Diameter: 2.38" Overall Height: 5.05" Base Diameter: 9.26"	004DEKR	19
4 1/4" - 7 3/4" EPDM *Silicone	#5	Top Opening Diameter: 3.50" Overall Height: 4.43" Base Diameter: 10.75"	005DEKR 005DEKS	22 22
5" - 9" EPDM	#6	Top Opening Diameter: 4.25" Overall Height: 5.60" Base Diameter: 12.50"	006DEKR	26
6" - 11" EPDM	#7	Top Opening Diameter: 4.90" Overall Height: 5.84" Base Diameter: 14.60"	007DEKR	30
7" - 13" EPDM *Silicone	#8	Top Opening Diameter: 5.80" Overall Height: 7.53" Base Diameter: 16.5"	008DEKR 008DEKS	35 35
9" - 19" EPDM *Silicone	#9	Top Opening Diameter: 7.45" Overall Height: 8.09" Base Diameter: 25.25"	009DEKR 009DEKS	54 54
15" - 24" EPDM	#10	Pipe Size: 15"-24" Diameter (Square Base only)	010DEKRSQ	148

Note: #1 and #3 are closed top. When flashing a steep pitch roof greater than 20° or a profile with a rib height of 1-1/2" or more, use the next larger flashing for increased flexibility.

Material Specifications

	EPDM	Silicone
Advanced Ozone Resistance	70 hours @ 500 ppm	70 hours @ 500 ppm
High Temp Resistance		
Intermittent	+135° C (275° F)	+260° C (+500° F)
Continuous	+100° C (212° F)	+225° C (+437° F)
Low Temp Resistance	-55° C (65° F)	-74° C (-100° F)
Tensile Strength (min)	10 MPa (1450 psi)	5 MOPa (700 psi)
Compression Set (max)	25%	50%

Size	#mini	#1	#2	#3	#4	#5	#6	#7	#8	#9	#maxi
Box Qty (pcs)	30	15	15	15	10	10	10	10	5	5	5

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RETROFIT FLASHING



PIPE SIZE	US PART NUM	FLASHING DETAILS
#1 3/4"- 2-3/4"	Black RF 101 BS Gray RF 101 GS Silicone RF 102 RD	Opening diameter 3/4" Pipe size 3/4"- 2-3/4" Base dimensions 6 -3/10"
#2 2"- 7-1/4"	Black RF 201 BS Gray RF 201 GS Silicone RF 202 RD	Opening diameter 2" Pipe size 2" - 7 -1/4" Base dimensions 10 -3/4"
#3 3-1/4" -10"	Black RF 301 BS Gray RF 301 GS Silicone RF 302 RD	Opening diameter 3 -1/4" Pipe size 3 -1/4" - 10" Base dimensions 14 -1/2"

Available COLORS



Available in 11 colors to match your roof!
 #3 - Pipe diameter 1/4" to 4"
 #5 - Pipe diameter 4 1/4" to 7 3/4"
 Material: EPDM

Designed for Sidewall or Low Profile Applications

Applications



Seals on a variety of substrates

- Wall and Roof Penetrations
- Drywall
- Stucco Wall
- Corrugated Metal Siding



Sizes

SIZE PIPE RANGE	COMPOUND	PART#		FLASHING DETAILS	
Low Profile Fits up to 4" Pipes	Black EPDM	LP101BA			A- Top opening diameter
	LT Grey EPDM	LP101GA	B- Overall Height		3/8"
	DRK Grey EPDM	LP101NG	C- Base dimensions		6-1/4"
	FDA White Silicone	LP102WT			

Standard Materials



Colors Available

- Black
- Bright Red
- Brown
- Copper
- Dark Blue
- Dark Green
- Dark Grey
- Light Blue
- Light Green
- Light Grey
- Tan
- Terra Cotta
- White

***Call TFC for your specific needs.**

Material Properties | EPDM and Silicone

ADVANCED OZONE RESISTANCE tested to...	EPDM 70 hour @ 500 pphm	FDA WHITE SILICONE 70 hour @ 500 pphm
HIGH TEMPERATURE RESISTANCE		
Tested to Intermittent	+138°C (+275°F)	+260°C (+500°F)
Continuous	+100°C (+212°F)	+225°C (+437°F)
LOW TEMPERATURE RESISTANCE tested to...	-55°C (-67°F)	-74°C (-101°F)
COMPRESSION SET Maximum...	25%	50%

EPDM and Silicone provide exceptional weathering protection even in harsh environments.

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CLOSE-TITE™ CLOSURE FOR METAL ROOF SYSTEMS



Specially formulated closed-cell polyethylene foam. The unique fusing process results in a plywood-like lamination that offers exceptional strength and uniform compressibility. Many of the closure shapes shown here are available with a dovetail interlocking joint that speeds up the installation and eliminates gapping often found with flat end-to-end joints.

Beveled Closure

With today's emphasis on the architectural aesthetics of metal roofing, unusual cut back angles and valleys result in challenging closure applications. Standard 90 degree closure will not provide an acceptable fit and seal. We can custom produce closure in bevel configurations which take into account the cut back angles and roof slope of each individual application. These parts are custom cut to your panel and specific order needs.



Adhesive

Adhesive is a bead of glue that can be applied to either side of your closure configuration. It allows for secured placement of the closure strip prior to installation of the panel.

Typical Outside Closure



Typical Inside Closure



CLOSURE PROFILES

Panel Profile Description	Pitch Of Corr.	Hgt. Of Corr.	Length Of Strip	Pcs. Per Ctn.	Ft. Per Ctn.
2.67" Corrugated	2.67"	1/2"	24"	100	200
Wheeling Channel Drain					
Inner	6"	1/2"	36"	100	300
Outer	6"	1/2"	36"	100	300
2.5" Corrugated	2.5"	9/16"	38-3/4"	100	323
Granite City Strong Panel II					
Inner	9"	5/8"	36"	100	300
Outer	9"	5/8"	36"	100	300
Metal Sales Pro Panel II					
Inner	9"	5/8"	36"	100	300
Outer	9"	5/8"	36"	100	300
3/4" Hi Rib*					
Inner	9"	3/4"	36"	100	300
Outer	9"	3/4"	36"	100	300
Delta Rib					
Inner	8"	3/4"	24"	100	200
Outer	8"	3/4"	24"	100	200
M/U Panel					
Inner	6"	3/4"	36"	100	300
Outer	6"	3/4"	36"	100	300
A-Panel					
Inner	12"	1-1/8"	36"	100	300
Outer	12"	1-1/8"	36"	100	300
Metal Sales Span Line 36 RW					
Inner	12"	1-1/8"	36"	100	300
Outer	12"	1-1/8"	36"	100	300
R-Panel					
Inner	12"	1-1/4"	36"	100	300
Outer	12"	1-1/4"	36"	100	300
McElroy Multi-Rib					
Inner	12"	1-1/4"	36"	100	300
Outer	12"	1-1/4"	36"	100	300

* Matches: Grand Rib III, Max Rib, Imperial Rib, Classic Rib and Century Drain

CHEMICAL RESISTANCE

Reagent	Concentration	Dimensional Change* (% Volume)
Sulfuric Acid	30%	+0.4
Nitric Acid	10%	-0.7
Hydrochloric Acid	10%	+5.4
Carbolic Acid	5%	+5.0
Acetic Acid	5%	-0.6
Oleic Acid	--	-0.7
Citric Acid	10%	+6.5
Ethyl Alcohol	95%	+0.4
Carbon Tetrachloride	--	+18.0
Heptane	--	18.5
Ethylene Disulfide	--	+3.0
Toluene	--	+15.0
Distilled Water	--	0
Hydrogen Peroxide	3%	+1.7
Caustic Soda	10%	+0.9
Ammonia	10%	-5.8
Sodium Carbonate	2%	+7.4
Saline	10%	+4.0

* Immersion for 7 days at 68° F.

PERFORMANCE

	Units	Properties*
Bulk Density	pcf	2
Average Cell Size	mils.	10
Tensile Strength (ASTM D-1564)	psi	M 45-55 C 36-44
Elongation, 20° C (ASTM D-624)	% to break	M 124-152 C 100-122
Tear Resistance, 20° C (ASTM D-1564)	lb./in.	M 10-12 C 7-6
Compression Set, 22 hrs. 50% CCompression, 24 hr. recovery (ASTM D-1056)	% of original thickness	16 Max.
Service Temperature	°F	-100 to +180
Thermal Conductivity	BTU-in./hr.-Ft. ² -°F	0.25
Water Absorption (ASTM D-1667)	lbs./sq. ft. cut surface	Max. 0.04
Buoyancy	lbs./cu. ft.	55.0 Min.
Compression Strength	25% psi 50% 75%	4.9-6.1 12.7-15.5 38.8-47.4
Shore Hardness (ASTM D-2240)	AA Scale 00 Scale	7 51

* M= Machine Direction
* C= Cros-Machine Direction
* Ozone & UV Test Results Available On Request.

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ULTRA1000® CLASS 50 | SILICONE SEALANT

Concerned about sealant failure caused by joint movement? Specify ULTRA1000™ Class 50 Silicone Sealant. It is formulated to withstand 2x more joint movement than ordinary Class 25 sealants.

Formulated for Superior Performance



- Silicone sealant provides exceptional weatherability
- Class 50 for superior movement capability
- Adheres to Kynar® and Galvalume® coated metals
- VOC compliant
- Mildew resistant
- "Guns" down to 0°F
- Service temperature -40°F to +400°F
- Tack free in 10 minutes
- 100% Silicone



Class 50 sealant provides 50% extension and 50% compression of the width of the joint.

Bonds To



Applications

- Flashing
- Gutters
- Trim
- Roof Tile
- Metal Sheeting
- Flashings
- Downspouts
- Adheres to Copper

APPROXIMATE® LINEAR FEET/COVERAGE PER 10.1 FL. OZ. CARTRIDGE (298 ML)

		WIDTH							
		1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
DEPTH	1/8"	99	49	33	24	20	16	14	12
	1/4"		24	20	12	10	8	7	6
	3/8"			11	8	6	5	5	4
	1/2"				6	5	4	3	3

Packaging

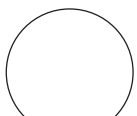


Never misplace another nozzle!
Tubes are now packaged with nozzle.

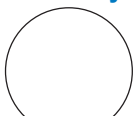
We've redesigned the packaging so that the plastic screw-on nozzles come pre-assembled on the tubes.



20 Colors! Call for availability. *Denotes in stock colors



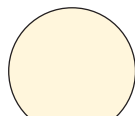
*Translucent
TR99



*White
WH100



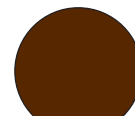
*Antique White
WH102



*Off White
WH104



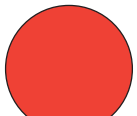
*Black
BLK110



*Brown
BR121



*Dark Bronze
BZ131



*Red
RD141



Regal Red
RD143



*Almond
BG151



*Sandstone
BG152



*Sierra Tan
BG154



*Hartford Green
GR160



*Green
GR164



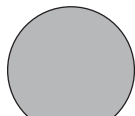
Hemlock Green
GR161



*Regal Blue
BL181



*Electric Blue
BL182



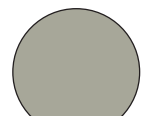
*Light Gray
GY190



*Slate Gray
GY192



*Charcoal Gray
GY195



*Gutter Gray
GY196

NOTE: Colors listed do not represent actual colors. Contact your local distributor for the ULTRA1000® color selector swatches for accurate color match.

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APS 500®

ADVANCED POLYMER SEALANT

APS 500® is formulated to provide superior adhesion, excellent resistance to weathering and is compatible for use with a variety of substrates. Supplied in plastic tubes with screw-on nozzles. Available in smooth or textured finish.



Over 24 Colors Available!

*Denotes standard colors.



Adheres to Kynar®, Galvanize, Galvalume®, Copper, Stainless Steel, Zinc

NOTE: Colors listed do not represent actual colors. Contact your local distributor for the APS500® color selector swatches for accurate color match.

Applications

- Window Trim
- Doors & Skylights
- Siding
- Metal Architecture
- Curtain Walls & Joints
- Coated Metal Roofs

Performance

- Paintable
- VOC Compliant
- Fast Curing
- Installs at -35°F to +140°F
- Non-Yellowing
- UV Resistant

**Need a custom color?
We can color match!**

		APPROXIMATE® LINEAR FEET/COVERAGE PER 10.1 FL. OZ. CARTRIDGE (298 ML)							
		WIDTH							
DEPTH	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	
	1/8"	99	49	33	24	20	16	14	12
	1/4"		24	20	12	10	8	7	6
	3/8"			11	8	6	5	5	4
1/2"				6	5	4	3	3	

Product Specifications

Physical Property	Test Method	Typical Value
Tensile Strength	ASTM D412	205 psi
Elongation	ASTM D412	650%
Shore Hardness	ASTM D 2240	25 ±5
Service Temperature		-75°F to 300°F
Join Sealant Designation	ASTM C920	Type S, Grade NS, Class 50, use T, NT, G, M
Adhesion and Cohesion	ASTM C719	Pass on glass, Aluminum and concrete for ± 50% movement
Adhesion-in-Peel, 2 inches/minute @ 25°, N (lbf)	ASTM C794	Aluminum 37 pli
		Glass 35 pli
		Concrete 34 pli
Staining	ASTM D2203	None
Lap Shear	ASTM 961-06	190 psi
Density	Industrial Method	1678 g/L
VOC	EPA Method 18	9 g/L (0.14)
HAP	EPA Method 311	0.08 g/L (0.005% by weight)
Low Temp. Flexibility	ASTM C 711	Pass -10° F. 1/4 inch mandrel
High Temp. Flexibility	Industrial Method	Up to 425° F for short periods
Cure Rate	Industrial Method	1/4 inch bead per 24 hrs.
Skin Time Cure Time	Industrial Method	40° F at 40% humidity 40 minute 2-3 days
		75° F at 50% humidity 10 minute < 24 hours
		95° F at 95% humidity 5 minute

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Bonds To



Limited Warranty: Satisfaction guaranteed when handled and applied according to label.

TFC BUTYL

NON-SKINNING TUBE SEALANT Developed for the metal roofing industry and provides long-life performance!

TFC BUTYL™ is a single component, non-skinning butyl-based solvent release sealant. It is designed to deliver excellent adhesion to metal panels while remaining permanently pliable.

The product is the ideal choice in applications where the combination of moisture and cold temperatures would cause the break-down of other sealants.

PERFORMANCE

- Non-Skinning
- Non-Staining
- Permanently Pliable
- Moisture Resistant
- Non-Paintable

APPLICATIONS

- Metal Roofing
- Insulated Metal Panels
- Use on Painted Metal, Kynar®, Galvalume® & Galvanized Steel, Aluminum

SPECIFICATIONS: Meets or exceeds AAMA 809.2

COLORS: Gray (Item Number TFCNSBGY)
White (Item Number TFCNSBWH)

SURFACE PREPARATIONS: For best results, the substrate should be clean, dry, frost free, sound and free of any oils, greases or incompatible sealers, paints or coatings that may interfere with adhesion. Do not apply if surface is contaminated. It is recommended to test all substrates prior to applications.

INSTALLATION: Cut nozzle to desired bead size. Apply with caulking gun, forcing sealant onto the substrate, then tool if needed. Clean excess material with mineral spirits or similar solvent.

STORAGE: Material is to be stored under controlled dry environment (below 75° F). Use within 12 months from date of manufacture.

PACKAGING: 10.3 fl. oz. per tube | 24 tubes per carton

APPROXIMATE® LINEAR FEET/COVERAGE PER 10.1 FL. OZ. CARTRIDGE (298 ML)

		WIDTH							
		1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
DEPTH	1/8"	99	49	33	24	20	16	14	12
	1/4"		24	20	12	10	8	7	6
	3/8"			11	8	6	5	5	4
	1/2"				6	5	4	3	3



PROPERTIES

Total Solids (ASTM C 681)85%
 Volume Shrinkage (ASTM D 2453) ...<20%
 Wt/U.S. Gallon (ASTM D 1475) ...10.5 +/- 0.40lbs
 Staining (ASTM D 2202)None
 Blistering or BleedingNone
 UV ResistanceExcellent
 Sag0.15" Max Full Button
 Service Temperature-40deg F to 250deg F
 Application Temp Range40deg F to 95deg F
 Extrudability (ASTM D 2452)40 seconds max
 Flexibility (ASTM C 711)No loss of adhesion at -60degF
 Fungus/MildewResistant to growth
 Heat Aging ...No loss of surface tack or adhesion
 Weatherability (ASTM G 154) ...No cracking, bleeding, or loss of rubbery characteristics

Chemical ResistanceExcellent to water, ozone, water vapor, alcohols. Fair to weak for acids and bases. Poor to organic solvents.
 Static Water Pressure Head Test ...Passes 6" of static water pressure head, no water leakage
 Air Leakage (ASTM E 1680)Infiltration @1.57psf 0.0510 cfm/sq ft and 0.0680 cfm/ft & Infiltration @ 6.24 psf 0.1024 cfm/sq ft and 0.1365 cfm/ft
 Water Penetration (ASTM E 1646) ...Passed, no leakage
 Wet Flammability (ASTM D 56) ...110deg F flash point
 Vehicle Bleedout (ASTM C 772) ...No visible exudation of vehicle from sealant after three weeks at 158deg F on painted or unpainted metal surface.
 Aged Tack (ASTM D 2377)Permanently Tacky
 Hardness (Shore OO Durometer) ...30 - 40

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BUTYL TAPE-SEAL™ was designed specifically for the metal building industry to provide optimal sealing in the harshest environments.

It adheres to most clean, dry metal surfaces and does not harden, bleed or stain. With pressure, it fills minor irregularities in the surface and seals the joints providing an effective barrier against water, moisture, dust, and dirt.

BUTYL TAPE-SEAL™ is an excellent choice for use around windows, doors, roof vents, stacks, access doors, and other penetration points.

SIZES

Stocked sizes - Others available upon request

Size (T x W x L)	TFC P.N.	Rolls/Ctns	Ctns/Pallet
3/32" x 3/8" x 45'	0937BCT	48	30
3/32" x 1/2" x 50'	0950BCT	22	50
3/32" x 1" x 45'	0910BCT	24	30
1/8" x 1/2" x 50'	1250BCT50	13	48
1/8" x 1" x 50'	1210BCT50	8	48
3/16" x 1/4" x 40'	1825BCT	20	48
3/16" x 7/8" x 40' *DB	1887BCT	10	48
3/16" x 7/8" x 25' *TB	1887BCT25TRI	8	64
3/16" x 2-1/2" x 20' *TB	TC826W	6	60



*DB denotes double bead

*TB denotes triple bead

PACKAGING

BUTYL TAPE-SEAL™ is extruded butyl material with a silicone backed release paper that is rolled and cut to specific lengths.

Our master cartons are constructed of 200 pound test material and the rolls are separated by silicone divider pads and protected by upright stacking cores.



APPLICATION

For optimum sealing the surfaces should be free of oil, dust, dirt and moisture. Light films of lubricant on unpainted metals should not adversely affect performance. It can be applied in cold temperatures however, at temperatures below 40°F, any condensation or frost present should first be removed. Position product in desired location and press in place through the release paper. When using to seal applications involving fasteners, position on the entry side to prevent penetration of weather elements through fastener holes. Remove release paper prior to assembly / fastening of adjoining surface.

CLEAN UP

Mineral spirits will readily facilitate the cleaning of tools and equipment.

Adheres To

- Painted Metal
- Galvalume®
- Kynar®
- Aluminized Metal

Easy to install!



Property	Value
Color	Off-White / Gray
Specific Gravity	(ASTM D792)- 1.6 ± 5
Percent Solids	(ASTM C771)- 100%
Cone Penetration	(ASTM D217)- 80 - 95
Tensile Adhesive Strength	(ASTM C907)- 15 - 18 psi
Application Temperature Range	-5°F to 120°F -20°C to 49°C
Service Temperature Range	-40°F to 200°F -40°C to 93°C
Sag	(AAMA 800)- None
Elongation	(ASTM C908) > 1000%
Low Temperature Flexibility	(ASTM C734 -40°F/-40°C)- No cracking or loss of adhesion
Peel Adhesion	(ASTM D3330) > 8 psi
Staining	(ASTM D925)- Will not stain painted/ unpainted surfaces
Water Penetration / Static Water Pressure	(ASTM E2140) - Pass/No leakage
Shelf Life	18 Months

TFC122012

BUTYL TAPE-SEAL™ meets or exceeds the following specifications:

MIL-C-1969B, Type II, Class B
 TT-C-1796A, Type II, Class B (supersedes MIL-C-18909B) AAMA 804.3-92 and 807.3-92 USDA Acceptable Freight Classification: Caulking Compound, NOIBN, NFMC #149610, Class 55



Blue Climaseal™

410 Stainless Steel

DESCRIPTION/SUGGESTED SPECIFICATIONS

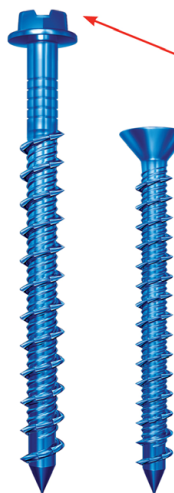
Tapcon Anchors—

SPECIFIED FOR ANCHORAGE INTO CONCRETE, BRICK OR BLOCK



The “original masonry” anchor that cuts its own threads into concrete, brick, or block. Maximum performance is achieved because the Tapcon Anchor, the Condrive Installation Tool, and the carbide-tipped Tapcon Drill Bits are designed to work as a system. It is essential to use the Condrive tool and the correct drill bit to assure consistent anchor performance.

Tapcon Anchors



Blue Climaseal™ provides extended corrosion protection

Also available in 410 Stainless Steel

Hex Head style on Tapcon Anchors is available for majority of fixture anchoring needs

Phillips Flat Head style is available when flush seating is necessary in countersink applications

Advanced Threadform cuts into concrete and masonry for reduced installation torque and increased pullout performance

Lengths of Tapcon Anchors range from 1-1/4” to 4” in 3/16” and up to 6” in 1/4” diameters.

Nail-Type Point guides the anchor into the pre-drilled hole. Excellent for wood to concrete applications

Approved for use in ACQ Treated Lumber

Select a length that meets your application needs.

SELECTION CHART

Tapcon® Anchors with Blue Climaseal™

Diameter.....3/16” and 1/4”
Point Type.....Nail

Thread Form.....Advanced Threadform Technology™
Finish.....Blue Climaseal™

All boxes of ITW Tapcon come packaged with matching carbide-tipped bit. Tapcon is packaged 100 pieces per box and 500 pieces per master carton except HW4-600 and PF4-600 (400 in master carton).

FIXTURE THICKNESS INCHES	RECOMMENDED TAPCON LENGTH In. (mm)	PART NO.		PART NO.		BIT LENGTH In. (mm)	STRAIGHT SHANK BITS FOR	
		3/16” HEX HEAD	1/4” HEX HEAD	3/16” FLAT HEAD	1/4” FLAT HEAD		3/16” TAPCON PART NO.	1/4” TAPCON PART NO.
0” - 1/4”	1-1/4 (31.8)	HW3-114	HW4-114	PF3-114	PF4-114	3-1/2 (88.9)	7900814	7901014
1/4” - 3/4”	1-3/4 (44.5)	HW3-134	HW4-134	PF3-134	PF4-134	3-1/2 (88.9)	7900814	7901014
3/4” - 1-1/4”	2-1/4 (57.2)	HW3-214	HW4-214	PF3-214	PF4-214	4-1/2 (114.3)	7900818	7901018
1-1/4” - 1-3/4”	2-3/4 (69.9)	HW3-234	HW4-234	PF3-234	PF4-234	4-1/2 (114.3)	7900818	7901018
1-3/4” - 2-1/4”	3-1/4 (82.6)	HW3-314	HW4-314	PF3-314	PF4-314	5-1/2 (139.7)	7900822	7901022
2-1/4” - 2-3/4”	3-3/4 (95.3)	HW3-334	HW4-334	PF3-334	PF4-334	5-1/2 (139.7)	7900822	7901022
2-1/2” - 3”	4 (101.6)	HW3-400	HW4-400	PF3-400	PF4-400	5-1/2 (139.7)	7900822	7901022
3-1/2” - 4”	5 (127.0)	---	HW4-500	---	PF4-500	6-1/2 (165.1)	---	7901026
4-1/2” - 5”	6 (152.4)	---	HW4-600	---	PF4-600	7-1/2 (190.5)	---	7901030

Tapcon® 410 SS Anchor

Diameter.....3/16” and 1/4”
Point Type.....Nail

Thread Form.....Original Notched Hi-Lo™
Finish.....410 Stainless Steel with Silver Climaseal™

All boxes of ITW Tapcon come packaged with matching carbide-tipped bit. Tapcon is packaged 100 pieces per box and 500 pieces per master carton except 3461907 (400 in master carton).

FIXTURE THICKNESS INCHES	RECOMMENDED TAPCON LENGTH In. (mm)	PART NO.		PART NO.		BIT LENGTH In. (mm)	STRAIGHT SHANK BITS FOR	
		1/4” HEX HEAD	3/16” FLAT HEAD	1/4” FLAT HEAD	3/16” TAPCON PART NO.		1/4” TAPCON PART NO.	
0” - 1/4”	1-1/4 (31.8)	SHW4-114	3434907	SPF4-114	3-1/2 (88.9)	7900814	7901014	
1/4” - 3/4”	1-3/4 (44.5)	SHW4-134	3418907	SPF4-134	3-1/2 (88.9)	7900814	7901014	
3/4” - 1-1/4”	2-1/4 (57.2)	SHW4-214	3419907	SPF4-214	4-1/2 (114.3)	7900818	7901018	
1-1/4” - 1-3/4”	2-3/4 (69.9)	SHW4-234	3420907	SPF4-234	4-1/2 (114.3)	7900818	7901018	
1-3/4” - 2-1/4”	3-1/4 (82.6)	SHW4-314	3421907	SPF4-314	5-1/2 (139.7)	7900822	7901022	
2-1/4” - 2-3/4”	3-3/4 (95.3)	SHW4-334	SHW4-334	SPF4-334	5-1/2 (139.7)	7900822	7901022	
2-1/2” - 3”	4 (101.6)	3459907	---	---	5-1/2 (139.7)	---	3100910	
3-1/2” - 4”	5 (127.0)	3460907	---	---	6-1/2 (165.1)	---	3102910	
4-1/2” - 5”	6 (152.4)	3461907	---	---	7-1/2 (190.5)	---	3461907	

Tapcon® SDS Bits

PART NUMBER	DESCRIPTION
790059	7” (SDS) Rotohammer Bits for use with 3/16” Tapcon
7901060	5” (SDS) Rotohammer Bits for use with 1/4” Tapcon
7901059	7” (SDS) Rotohammer Bits for use with 1/4” Tapcon

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ZAMAC™ Drive Pin Anchor

The TFC ZAMAC™ is a nail-in drive anchor which has a body formed from zinc alloy. Nails are available in carbon or stainless steel.

The anchor can be used in concrete, block, brick or stone.

Great for attacking termination bars attachment!



Mushroom Head Zamac Nailin®
Carbon Steel Nail or 304SS Nail



Flat Head Zamac Nailin®
Carbon Steel Nail

Diameter	Length	Pieces/ Box	Pieces/ Carton.	Price/ 100
3/16	7/8"	100	500	
1/4	1"	100	500	
1/4	1-1/4"	100	500	
1/4	1-1/2"	100	500	
1/4	2"	100	500	

Performance Data

DIA.	EMBED. DEPTH	2,000 PSI Concrete		4,000 PSI Concrete		6,000 PSI Concrete		C-90 Hollow Block		Red Solid Block	
		TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR
1/4"	5/8"	480	1230	600	1500	640	1500	360	1040	570	1250
	3/4"	580	1230	720	1500	760	1500	480	1160	790	1400
	7/8"	770	1350	820	1500	890	1500				
	1"							590	1320	820	1400
	1 1/8"	890	1400	960	1500	1060	1500				
	1 3/8"	980	1400	1150	1500	1230	1500	800	1320	950	1400
	1 7/8"	1150	1400	1300	1500	1365	1500				

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We have the latest DEWALT power tools to meet your specific needs.



Choose a tool to meet your specific need...

- Drilling
- Driving
- Cutting
- Grinding
- Sawing
- Chopping

Contact our nearest location for more details and ask about our free training programs to assure proper tool use.

Cordless Tools



Drills



Screwguns



Cut and Shear



Grinders



Hammer Drills



Saws



1" Bit Tips



	Phillips Bit Tip #1 Phillips Bit Tip #2 Phillips Bit Tip #3
	Slotted Bit Tip #8 Slotted Bit Tip #10 Slotted Bit Tip #12
	Square Recess Bit Tip #1 Square Recess Bit Tip #2 Square Recess Bit Tip #3
	Pozi-driv® Bit Tip #1 Pozi-driv® Bit Tip #2 Pozi-driv® Bit Tip #3
	Torx® Bit Tip T10 Torx® Bit Tip T15 Torx® Bit Tip T20 Torx® Bit Tip T25 Torx® Bit Tip T27 Torx® Bit Tip T30 Torx® Bit Tip T40



Double Ended Bits

	Phillips #2 / Slotted #8
	Phillips #2 / Phillips #2
	Phillips #2 / Square Recess #2

Bit Holders



Magnetic Holder



Quick Change Magnetic

Description	Size	Length
Magnetic Bit Holder	1/4" Drive	1-5/8" 2-1/4" 2-3/4" 3"

Power Bits



	2" Phillips Power Bit #1 2" Phillips Power Bit #2 2" Phillips Power Bit #3 Deck Power Bit #2
	2" Square Recess Power Bit #1 2" Square Recess Power Bit #2 2" Square Recess Power Bit #3
	3-1/2" Phillips Power Bit #1 3-1/2" Phillips Power Bit #2 3-1/2" Phillips Power Bit #3
	3-1/2" Slotted Power Bit #6 3-1/2" Slotted Power Bit #8 3-1/2" Slotted Power Bit #10 3-1/2" Slotted Power Bit #12
	3-1/2" Square Recess Power Bit #1 3-1/2" Square Recess Power Bit #2 3-1/2" Square Recess Power Bit #3
	6" Phillips Power Bit #1 6" Phillips Power Bit #2 6" Phillips Power Bit #3
	6" Slotted Power Bit #6 6" Slotted Power Bit #8 6" Slotted Power Bit #10
	2" Square Recess Power Bit #6 2" Square Recess Power Bit #8 2" Square Recess Power Bit #10

Magnetic Socket Drivers



Description	Size	Length
Magnetic hex socket	1/4"	1-7/16"
Magnetic hex socket	5/16"	1-7/16"
Magnetic hex socket	3/8"	1-1/2"
Magnetic hex socket	1/4"	2-9/16"
Magnetic hex socket	5/16"	2-9/16"
Magnetic hex socket	3/8"	2-9/16"



Special adjustable sleeve stabilizes the fastener during installation

Length	2 3/8"
--------	--------

Description	Length
Eyelag socket driver	2-9/16"

Magnetic Drive Guides



Compact



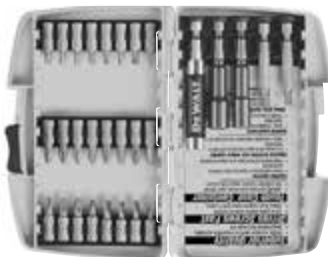
Standard



Clear

Magnetic Drive Guides (2)
1" Phillips Bit Tips: (1) #1, (1) #2
1" Slotted Bit Tips: (1) #8-10
1" Square Recess Bit Tip: (1) #2

Screw-driving Set



29 Piece Set

1" Phillips Bit Tips: (1) #1, (10) #2, (1) #3
1" Slotted Bit Tips: (1) #6, (2) #8, (1) #10
1" Square Recess Bit Tips: (1) #1, (6) #2, (1) #3
2" Phillips Power Bit: (1) #2
2" Square Recess Power Bit: (1) #2
Nutdrivers: (1) 1/4", (1) 5/16"
Compact magnetic drive guide (1)

Depth sensing for drywall installation. Magnetic

We stock a full line of professional brand reciprocating saw blades to handle any application!



WOOD CUTTING

Reinforced tooth for increased durability when cutting through nails and other foreign objects.

+6 degree hook angle for fast, aggressive cuts.

Anti-stick coating minimizes friction and gum-up.

Raker tooth design keeps the blade in the cut thereby minimizing vibration.



METAL CUTTING

Reinforced tooth design provides increased durability.

Matrix II steel with 8% cobalt on the cutting edge provides flexibility to minimize breakage.

Specially formulated anti-stick coating minimizes friction and gumming



DEMOLITION

Demolition blades are thicker than standard blades thereby preventing breakage.

Wider blades add more stability to the cut making it easier to cut a straight line.

Reinforced teeth for increased durability.

Specially formulated anti-stick coating minimizes friction and gum-up for smoother cuts.

Choose from Lennox, Morris, DeWalt, and Freud



BI-METAL RECIPROCATING BLADES



Teeth Per Inch	Length (In.)	Recommended for cutting
5/8	6	Very fast cutting, nail embedded wood, general Rough-in.
6	6	
6	9	
6	12	
6	6	
14	3 5/8	Scroll cutting metal 3/16" thru 1/4".
18	3 5/8	Scroll cutting metal 1/8" thru 3/16".
14	4	Metal 3/16" thru 1/4", conduit, tubing, channels, pipe, rubber, fiber.
14	6	Metal 1/8" thru 3/16", conduit, tubing, channels, pipe.
18	4	
18	6	
24	4	Metal thinner than 1/8", tubing, pipe, trim.
24	6	
10	4	All woods, nail embedded, composition material, plastic and non-ferrous metals.
10	6	
10/14	8	All woods, nail embedded, composition material, plastic, non-ferrous metals and cast iron.
10/14	12	

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BUILT FOR THE JOB SITE.

The series 20™ saw blade line includes a full range of thin-kerf blades for long life on the job. Built for durability in the toughest job site applications.

MITER/SAW BLADES



**General Purpose
DW3103, DW3114**

For all-purpose cutting in natural wood, plywood and wood composites.



**Fine Crosscuts
DW3126, DW3128**

For fine crosscuts in natural wood, plywood and wood composites.



**Pressure Treated /
Wet Lumber DW3104**

Anti-stick coating reduces buildup on the blade when cutting pressure treated or wet lumber.

Cat #	Diameter (inches)	Arbor (inches)	Teeth	Plate (inches)
DW3103	10"	5/8"	32	.071
DW3114	10"	5/8"	40	.071
DW3126	12"	1"	60	.071
DW3128	12"	1"	80	.071
DW3104	10"	5/8"	32	.071

PORTABLE CONSTRUCTION SAW BLADES



**Combination Framing
DW3171, DW3178,
DW3176, DW3182,
DW3184**

For all-purpose cuts in natural wood, plywood and wood composites.



**Pressure Treated /
Wet Lumber
DW3174**

Anti-stick coating reduces buildup on the blade when cutting pressure treated or wet lumber..



**HardiPlank®
Fiber Cement
DW3193**

For fine crosscuts in natural wood, plywood and wood composites.

Cat #	Bulk #	Diameter (inches)	Arbor (inches)	Teeth	Plate (inches)
DW3171	DW3571	7-1/4"	5/8"	16	.045
DW3178	DW3578	7-1/4"	5/8"	24	.045
DW3176	DW3576	7-1/4"	5/8"	36	.045
DW3182	DW3582	8-1/4"	5/8"	24	.050
DW3184	-	8-1/4"	5/8"	40	.050
DW3174	DW3574	7-1/4"	5/8"	18	.045
DW3193	-	7-1/4"	5/8"	6 PCD	.063

CORDLESS SAW BLADES - 6 1/2" DIAMETER



**Fast Cutting
DW9155**



**Framing
DW9154**



**Aluminum
DW9154**






























**Combo (DW9155,
DW9154) DW9158**

Cat #	Diameter (inches)	Arbor (inches)	Teeth	Plate (inches)
DW9155	6-1/2"	5/8"	16	.039
DW9154	6-1/2"	5/8"	24	.039
DW9152	6-1/2"	5/8"	36	.039
DW9158	6-1/2"	5/8"	16/24	.039



HAND SNIPS - MIDWEST SNIPS

Aviation Snips	Description	Part #	Tinner Snips	Description	Part #
 Bulldog Aviation Snip	<ul style="list-style-type: none"> Nominal Length: 9" Cut Length: 7/8" Cutting Capacity (CR/SS): 16/18 Notch cuts Special purpose is thick materials 	MWT-6716B	 8-Inch Straight Tinner Snip	<ul style="list-style-type: none"> Straight Blade Pattern Model Cuts straight and wide curves. Hot drop-forged of high carbon steel. 	MWT-87S
 Special Hardness Left Aviation Snip	<ul style="list-style-type: none"> Cuts hardened materials with ease Optimum 40 serrations per inch grips material during cutting High tensile strength handles will not bend under pressure Special purpose is cutting hard metals such as stainless steel 	MWT-SS6716L	 10-Inch Straight Tinner Snip	<ul style="list-style-type: none"> Straight Blade Pattern Model Cuts straight and wide curves. Hot drop-forged of high carbon steel. 	MWT-107S
 Special Hardness Left Offset Aviation Snip	<ul style="list-style-type: none"> Makes tight left cuts thru hardened materials Hot drop forged blades remain sharp Special purpose is cutting hard metals such as stainless steel Made in the USA 	MWT-SS6510L	 12-Inch Straight Tinner Snip	<ul style="list-style-type: none"> Straight Blade Pattern Model Cuts straight and wide curves. Hot drop-forged of high carbon steel. 	MWT-127S
 Special Hardness Right Aviation Snip	<ul style="list-style-type: none"> Cuts hardened materials with ease Optimum 40 serrations per inch grips material during cutting High tensile strength handles will not bend under pressure Special purpose is cutting hard metals such as stainless steel 	MWT-SS6716R	 7-Inch Duckbill Tinner Snip	<ul style="list-style-type: none"> Circular Blade Pattern Model Cuts straight and tight curves. Hot drop-forged of high carbon steel. Cut Length : 1.75" (mm) Nominal Length : 7.0" (0mm) 	MWT-77D
 Special Hardness Right Offset Aviation Snip	<ul style="list-style-type: none"> Makes tight Right cuts thru hardened materials Hot drop forged blades remain sharp Special purpose is cutting hard metals such as stainless steel Made in the USA 	MWT-SS6510R	 10-Inch Duckbill Tinner Snip	<ul style="list-style-type: none"> Circular Blade Pattern Model Cuts straight and tight curves. Hot drop-forged of high carbon steel. Cut Length : 2.5" (mm) Nominal Length : 10.0" (0mm) 	MWT-107D
 Left & Right Offset Aviation 2-Piece Set	<ul style="list-style-type: none"> Makes left cuts Cuts 18ga Cold rolled Steel Hot Drop Forged blades remain sharp Made in the USA 	MWT-6510C	 12-Inch Duckbill Tinner Snip	<ul style="list-style-type: none"> Circular Blade Pattern Model Cuts straight and tight curves. Hot drop-forged of high carbon steel. Cut Length : 3.0" (mm) Nominal Length : 12.0" (0mm) 	MWT-127D
 Left Offset Aviation Snip	<ul style="list-style-type: none"> Nominal Length: 9-3/4" Cut Length: 1-1/4" Cutting Capacity (CR/SS): 18/22 Cuts tight left curves and straight Kush'n-Power comfort grips 	MWT-6510L	 14-Inch Combination Blade Pattern Tinner Snip	<ul style="list-style-type: none"> Combination Bblade Pattern Model Hot drop-forged Combination blade pattern Cuts straight and wide curves Use in either hand Cut Length : 3.875" (98.425 mm) 	MWT-147C
 Right Offset Aviation Snip	<ul style="list-style-type: none"> Nominal Length: 9-3/4" Cut Length: 1-1/4" Cutting Capacity (CR/SS): 18/22 Cuts tight right curves and straight Kush'n-Power comfort grips 	MWT-6510R	 16-Inch Bulldog Blade Pattern Tinner Snip	<ul style="list-style-type: none"> Bulldog Blade Pattern Model Hot drop-forged Cuts straight and wide curves Use in either hand Cut Length: 2.5" (63.5 mm) 	MWT-167B
 Straight Offset Aviation Snip	<ul style="list-style-type: none"> Makes straight cuts Cuts 18ga cold rolled steel Hot drop forged blades remain sharp Made in the USA 	MWT-6510S	 14-Inch Lath Tinner Snip	<ul style="list-style-type: none"> Lath Snip Model Hot drop-forged Cuts straight and wide curves Designed for cutting lath materials Bent handles for increased leverage Cut Length : 3.875" (98.425 mm) Nominal Length : 14.0" (355.6 mm) 	MW-P147CBT
 Left Aviation Snip	<ul style="list-style-type: none"> Nominal Length: 9-3/4" Cut Length: 1-1/4" Cutting Capacity (CR/SS): 18/22 Cuts wide left curves and straight 	MWT-6716L	 Vinyl Siding Replaceable Blade Snip	<ul style="list-style-type: none"> Cuts straight and wide curves; Use in either hand; 3-1/2"(89mm) length of cut and replaceable blades. Cuts straight and wide curves. Use in either hand; 3-1/2"(89mm) length of cut Replaceable blades. Ships with Vinyl Siding blades Kush'n-Kote® handles. 	MWT-1200SV
 Right Aviation Snip	<ul style="list-style-type: none"> Nominal Length: 9-3/4" Cut Length: 1-1/4" Cutting Capacity (CR/SS): 18/22 Cuts wide right curves and straight 	MWT-6716R	 All Purpose Replaceable Blade Snip	<ul style="list-style-type: none"> Cuts straight and wide curves; Use in either hand; 3-1/2"(89mm) length of cut and replaceable blades. All Purpose blades Cut Length : 3.5" (89mm) Kush'N-Kote handles 	MWT-1200
 Straight Aviation Snip	<ul style="list-style-type: none"> Nominal Length: 9-3/4" Cut Length: 1-3/8" Cutting Capacity (CR/SS): 18/22 Cuts wide left and right curves and straight 	MWT-6716S	 Offset Left Replaceable Blade Snip	<ul style="list-style-type: none"> Cuts straight and tight curves; Both models ship with vinyl siding blades. 2-3/4"(70mm) length of cut and replaceable blades; Cuts to the Left Use in the right hand; Vinyl siding blades Cut Length : 2.75" (70mm) 	MWT-2210
 Upright Left Aviation Snip	<ul style="list-style-type: none"> Upright design is ideal for confined spaces or overhead Ergonomic design increases wrist range of motion Hot drop forged blades stay sharp Cuts 24ga cold rolled steel 	MWT-6900L	 Offset Right Replaceable Blade Snip	<ul style="list-style-type: none"> Cuts straight and tight curves Both models ship with vinyl siding blades. 2-3/4"(70mm) length of cut and replaceable blades. Cuts to the Right; Use in the left hand Vinyl siding blades Cut Length : 2.75" (70mm) 	MWT-2110
 Upright Right Aviation Snip	<ul style="list-style-type: none"> Upright design is ideal for confined spaces or overhead Ergonomic design increases wrist range of motion Hot drop forged blades stay sharp Cuts 24ga cold rolled steel 	MWT-6900R			

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Elk River Roofer's Kits

Roofer's Kits are available in several combinations with each kit containing specific items. The combinations listed below are our most popular kits.



- CP + 48103 one 0-ring harness
- 5/8" x 30' CP + Lifeline with attached rope grab 6 attached
- 2' ZORBER @web lanyard with Snaphook
- Reusable roof anchor with nails
- Carry-all Bucket



- CP + 48103 one 0-ring harness
- 5/8" x 50' CP + Lifeline with Snaphook / thimble
- 5/8" x 3' trailing rope grab with attached 3' ZORBER® Snaphook
- Reusable roof anchor with nails
- Carry-all Bucket

Guardian Fall Protection



Bucket of Safety | Roofer Kit

Part #	Product Description		Weight
00800	HUV (01700)	5 Snappy Anchors (00710) & VLA-25' (01310)	13.20
00803	HUV (01700)	1 SP-Anchor (00460) & VLA-25' (01310)	13.50
00805	HUV (01700)	1 Temper Reusable (00455) & VLA-25' (01310)	12.60
00810	HUV (01700)	5 Snappy Anchors (00710) & VLA-50' (01320)	15.30
00813	HUV (01700)	1 SP-Anchor (00460) & VLA-50' (01320)	15.15
00815	HUV (01700)	1 Temper Reusable (00455) & VLA-50' (01320)	17.30
00830	HUV (01700)	2 Stainless Steel Reusable (00470) & VLA-25' (01310)	10.70
00840	HUV (01700)	2 Stainless Steel Reusable (00470) & VLA-50' (01320)	12.95

Available in an easy to carry back-pack bag!



Contact TFC to choose from a wide selection of safety equipment to meet your needs!



FASTENER SELECTION GUIDE FOR EXPOSED METAL BUILDING AND ROOFING APPLICATIONS

Environments

- URBAN/RURAL
- INDUSTRIAL
- COASTAL/MARINE

Select a fastener based on the environment and the panel type. To minimize galvanic corrosion, it is important that the fastener material is compatible with the roofing material. The following list of fasteners were selected based on specifications from various panel producers throughout the world. *Harsh environments can corrode metals quickly.* Contact the panel manufacturer for their specific recommendations.

NOTE: Electroplated zinc plated screws are not for use in exterior applications and will corrode quickly.



PANEL MATERIAL

Fasteners



- Galvanized
- Zinc/Aluminum
- Painted Metal

<p>CARBON STEEL TRI-SEAL® COATED</p> <p>URBAN/RURAL INDUSTRIAL</p>	<p>*410 STAINLESS STEEL</p> <p>URBAN/RURAL INDUSTRIAL</p> <p>*Coated or Zinc Plated</p>	<p>STAINLESS CAP</p> <p>URBAN/RURAL INDUSTRIAL COASTAL/MARINE</p>	<p>ZINC HEAD</p> <p>URBAN/RURAL INDUSTRIAL COASTAL/MARINE</p>	<p>304 STAINLESS STEEL</p> <p>URBAN/RURAL INDUSTRIAL COASTAL/MARINE</p>
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Note: 300 series stainless may corrode the base metal in severe marine environments. Consult the panel manufacturer for specific conditions

PANEL MATERIAL

Fasteners



<p>CARBON STEEL TRI-SEAL® COATED</p> <p>URBAN/RURAL</p>	<p>STAINLESS CAP</p> <p>URBAN/RURAL INDUSTRIAL COASTAL/MARINE</p>	<p>ZINC HEAD</p> <p>URBAN/RURAL INDUSTRIAL COASTAL/MARINE</p>	<p>304 STAINLESS STEEL</p> <p>URBAN/RURAL INDUSTRIAL COASTAL/MARINE</p>
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Note: 300 series stainless may corrode the base metal in severe marine environments. Consult the panel manufacturer for specific conditions

PANEL MATERIAL

Fasteners



<p>*410 STAINLESS STEEL</p> <p>URBAN/RURAL INDUSTRIAL</p> <p>*Coated or Zinc Plated</p>	<p>STAINLESS CAP</p> <p>URBAN/RURAL INDUSTRIAL COASTAL/MARINE</p>	<p>304 STAINLESS STEEL</p> <p>URBAN/RURAL INDUSTRIAL COASTAL/MARINE</p>
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PANEL MATERIAL

Fasteners



<p>*410 STAINLESS STEEL</p> <p>URBAN/RURAL INDUSTRIAL</p> <p>*Coated or Zinc Plated</p>	<p>STAINLESS CAP</p> <p>URBAN/RURAL INDUSTRIAL COASTAL/MARINE</p>	<p>304 STAINLESS STEEL</p> <p>URBAN/RURAL INDUSTRIAL COASTAL/MARINE</p>
--	--	--

For detailed product information, please view our product page located on our website or our PRODUCT QUICK FACTS sheet.



- | | | | |
|--|---|--|---|
| <ul style="list-style-type: none"> • TRI-SEAL® Coated Carbon Steel • Stainless Cap or Zinc Head • 410 Stainless Steel | <ul style="list-style-type: none"> • TRI-SEAL® Coated Carbon Steel • Stainless Steel Cap Head Screws • 304 Stainless Steel | <ul style="list-style-type: none"> • TRI-SEAL® Coated Carbon Steel • Stainless Steel Cap Head • 304 Stainless Steel | <ul style="list-style-type: none"> • 304 Stainless Steel Bi-Metal Drill Screws |
|--|---|--|---|

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The following information is provided to help you specify and install tapping screws correctly. Care should be used when selecting and installing screws to assure optimal performance.

TERMINOLOGY

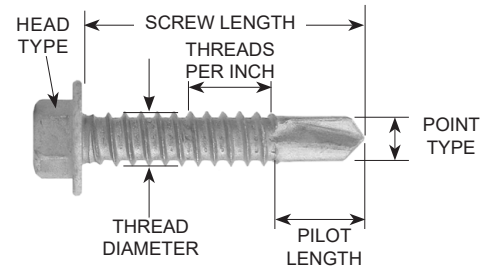
To eliminate confusion and assure the proper screw is used, specifications for tapping screws should be written to include;

1. Thread diameter
2. Threads per inch
3. Point type
4. Description of screw
5. Drive size
6. Head Style
7. Material
8. Finish / plating

Example

1/4-14 x 1" BLAZER-3 Drill Screw. 3/8" HWH.
Carbon Steel. TRI-SEAL® 1,000 hour Salt Spray coating.

Thread Diameter	Threads Per Inch	Screw Length	Point Type	Head Size & Type
1/4	- 14	x 1"	BLAZER-3	3/8" HWH

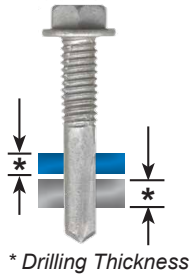


DETERMINE DRILL POINT TYPE

Drilling Thickness (Drill Point Type)

Add up the total thickness that will be drilled by the screw and select a drill point type that meets the required drilling thickness range. (Do not include pre-punched materials that will not be drilled by the screw.)

Select the desired drill point type located on the size chart of the BLAZER® / CONCEALOR® sell sheet (i.e. BLAZER-5).



* Drilling Thickness

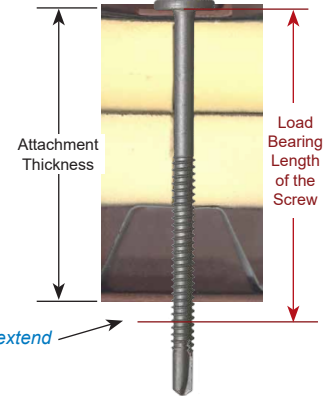
DETERMINE FASTENER LENGTH



Attachment Thickness | METAL

Measure from the top surface of the material being fastened to the underside of the metal. Be sure to allow for any void or insulation.

Select a screw length listed in the BLAZER® or CONCEALOR® sell sheet (Load Bearing Length).



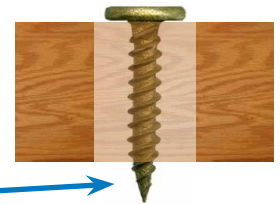
Allow at least three (3) full threads to extend beyond the material being fastened.



Attachment Thickness | WOOD

Allow full penetration into wood decks so the screw point extends beyond the bottom side. Allow at least 1" screw embedment in 2 x structures to maintain designed pull out resistance. Greater penetration can achieve higher pull out values.

Allow screw tip to extend beyond decking.



INSTALLATION TECHNIQUES



Recommended Screw-Gun Speed

Using the proper tooling is important for producing consistent installation. It also minimizes potential screw or application failure caused by over-driven and under-driven fasteners.

Screw Size	Max RPM
#6, #8, #10	2,500
All wood screws	2,500
#12, 1/4", 5/16"	2,000
All DP5	2,000
304 Stainless Screws	1,200

WARNING! DO NOT USE IMPACT TOOLS FOR INSTALLATION!

Using impact tools to install pancake head screws can cause the head to separate from the body due to the high torque and impulse generate by the tool. HWH screws can also be easily overtighten which can lead to connection failure.

TFC is not responsible for failures caused by the use of improper tooling or improper installation.



Do

- Install fastener perpendicular to the work surface.
- Let the drill point do the work.
- Use a tool with torque control or depth sensing nose piece to prevent over-torqued and under-torqued screws.
- Allow all material to be drilled before tapping into the steel.

Do Not

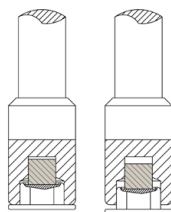
- Do not exert excessive pressure!
- Do not over drive the screw!
- **Do not use impact tools! (They can torque the screw to failure!)**

ACCESSORY TIPS

Look familiar?



Worn out drive bits and sockets produces poor drilling, can strip the recess, and damage painted fasteners.



Correct Incorrect

SET THE MAGNET!

Be sure screw head engages into the socket completely. This will eliminate screw wobble, improve the drilling performance, and reduce damage to painted screw heads.

SEALING WASHERS

To assure a proper seal, tighten the screw until the EPDM sealant extrudes just to the outer edge of the backing material. This also is a great way to visually inspect the screw to assure it is properly sealed.



Correct



Too Tight!



Too Loose!



Our inventory management programs are design reduce lead times and reduce your inventory investment. You can complete your project fast with the best quality products and services

Choose the best inventory program that best fits your needs.

NEED-IT-NOW! Product Program



We will inventory the products you need and ship them fast!

- Use this selection guide to help you use the best products for your application.
- We will develop a stocking program based on your needs to assure we have what you need.
- We can develop your own Product Guide with your specific items that can assist you in bidding a job.

Our local branch will help you to determine the products you need, and we will stock them so you have them...*when you NEED-IT-NOW!*

PAK-ONE Job Pack Program

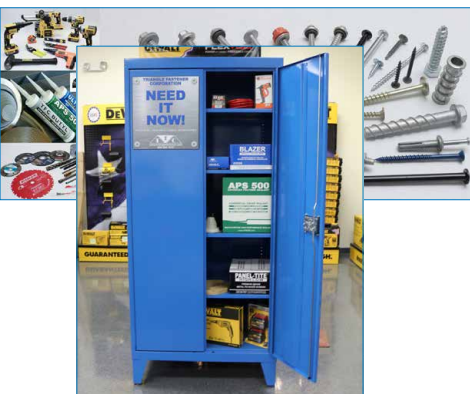


We will pack and ship products for your specific job.

Purchase only what you need for the job...

- You reduce your inventory investment.
 - Improve your cash flow.
 - Eliminate dead inventory.
 - Reduce "hidden" warehouse and procurement costs.
1. We can develop a list of items that meet your requirements.
 2. You select specific items for a particular job and develop a "cut-list" for your project.
 3. We consolidate and ship the fasteners, sealants, flashings tools, and accessories needed for the job.

NEED-IT-NOW! CABINET INVENTORY PROGRAM



Stock your critical items in a secured storage cabinet for fast access

- Select from a wide variety of commercial grade products.
- We supply a FREE heavy duty, locking storage cabinet.
- We will organize the items you selected and setup the cabinet in your shop.
- You can return any unused items and replace them with new ones.



NEED-IT-NOW?

We can help!

- Fasteners, Tools, Sealants and Contractor Supplies
- Delivery and Stocking Programs
- Technical Support
- Product Development
- Job-site Assistance

FASTENING SYSTEMS AND SOLUTIONS FOR COMMERCIAL CONSTRUCTION

MARKETS



Application Focused

- Flat Roofing
- Metal Building and Roofing
- Post Frame
- Misc. Cladding | Curtain Wall
- Drywall | Interior
- HVAC / Electrical / Mechanical

24 LOCATIONS How Can We Help You? Contact us Toll Free at 800.486.1832

Alabama - Birmingham
3800 1st Ave. North
Birmingham, AL 35222
P: 205.595.3444 | F: 205.595.7544

Florida - Orlando
114 Atlantic Annex Pt.
Maitland, FL 32751
P: 407.660.0167 | F: 407.660.1256

North Carolina - Charlotte
3317 Pelton Street
Charlotte, NC 28217
P: 704.586.0400 | F: 704.586.0300

Tennessee - Madison
213 Nesbitt Lane
Madison, TN 37115
P: 615.865.0007 | F: 615.868.7257

Alabama - Mobile
764 Lakeside Drive Suite A
Mobile, AL 36693
P: 251.665.5000 | F: 251.665.5001

Florida - Tampa
10111 Woodberry Road
Tampa, FL 33619
P: 813.689.6877 | F: 813.689.6717

North Carolina - Raleigh
79 Rupert Rd.
Raleigh, NC 27603
P: 919.733.1845 | F: 919.856.4910

Texas - Dallas
2801 West Airport Freeway
Irving, TX 75062
P: 972.659.9400 | F: 972.659.9403

Alabama - Montgomery
508 Hackel Drive
Montgomery, AL 36117
P: 334.270.8800 | F: 334.270.0331

Georgia - Atlanta
5800 Oakbrook Parkway, Suite A
Norcross, GA 30093
P: 770.417.1515 | F: 770.409.1451

Ohio - Cincinnati
1021 W. 8th Street
Cincinnati, OH 45203
P: 513.242.5802 | F: 513.242.8209

Texas - Houston
5210 Brittonmoore Rd.
Houston, TX 77041
P: 713.466.7758 | F: 713.466.8390

California - San Jose
1425 Koll Circle
San Jose, CA 95112
P: 408-982-0581

Indiana - Indianapolis
7768 Zionsville Rd #400
Indianapolis, IN 46268
P: 317.872.3944 | F: 317.879.2181

Ohio - Cleveland
4661 Hinckley Ind. Pkwy.
Cleveland, OH 44109
P: 216.351.9933 | F: 216.351.5008

Virginia - Richmond
6529 Dickens Place
Richmond, VA 23230
P: 804.282.2360 | F: 804.282.4069

Delaware - New Castle
243-C Quigley Blvd.
New Castle, DE 19720
P: 302.322.0600 | F: 302.322.5102

Maryland - Baltimore
6550 Moravia Park Dr.
Baltimore, MD 21237
P: 410.485.8665 | F: 410.485.4560

Ohio - Columbus
1244 West Goodale Blvd.
Columbus, OH 43212
P: 614.487.8800 | F: 614.487.1634

Washington - Seattle
8459 South 208th Street
Kent, WA 98031
P: 206.575.0144 | F: 206.575.1118

Florida - Ft Lauderdale
5600 NW 12th Ave Suite 303
Ft. Lauderdale, FL 33309
P: 954.771.5232 | F: 954.771.5441

Michigan - Detroit Sales
Mark Enderle
Sales | Michigan / NW Ohio
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2001 Preble Ave.
Pittsburgh, PA 15233
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Florida - Jacksonville
6800 Suemac Place, Suite 2
Jacksonville, FL 32254
P: 904.695.0404 | F: 904.695.0062

Mississippi - Jackson
102 Diane Dr.
Richland, MS 39218
P: 601.664.3449 | F: 601.664.7185

Pennsylvania - Pittsburg (Corp.)
1925 Preble Ave.
Pittsburgh, PA 15233
P: 412.321.5021 | F: 412.321.7838