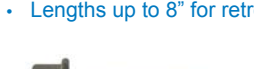
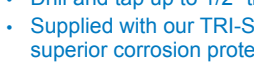
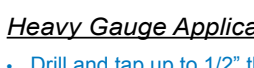
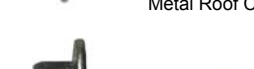


HEX WASHER HEAD



HEX DRIVE SIZE
#8 dia: 1/4" HWH
#10 dia: 5/16" HWH
#12 dia: 5/16" HWH
1/4 dia: 3/8" HWH
5/16 dia: 3/8" HWH

High Hex for better driving stability!

Metal Roof Clip Screw

Heavy Gauge Applications - DP4 & DP5 Points

- Drill and tap up to 1/2" thick steel.
- Supplied with our TRI-SEAL™ long life coating for superior corrosion protection.
- Lengths up to 8" for retrofit metal roof base attachment.



- ▶ The hex washer head is the most popular drive system and provides the best stability during installation.
- ▶ Available with TRI-SEAL™ long life coating for the ultimate corrosion protection...1,000 hrs salt spray with no red rust!

SIZES AND PERFORMANCE SPECIFICATIONS

Size	Point Type	Drilling Thickness	Attachment Thickness	Box Quantity	
A	#8-18 x 1/2"	DP2	.036" - .100"	.205"	10M
	#8-18 x 5/8"	DP2	.036" - .100"	.320"	10M
	#8-18 x 3/4"	DP2	.036" - .100"	.455"	10M
	#8-18 x 1"	DP2	.036" - .100"	.705"	7.5M
	#8-18 x 1-1/4"	DP2	.036" - .100"	1.000"	5M
	#8-18 x 1-1/2"	DP2	.036" - .100"	1.205"	5M
B	#8-18 x 2"	DP2	.036" - .100"	1.750"	1.5M
	#10-16 x 1/2"	DP3	.036" - .175"	.150"	10M
	#10-16 x 5/8"	DP3 (HH)	.036" - .175"	.200"	10M
	#10-16 x 3/4"	DP3 (HH)	.036" - .175"	.325"	7.5M
	#10-16 x 1"	DP3	.036" - .175"	.575"	5M
	#10-16 x 1-1/2"	DP3	.036" - .175"	1.075"	3M
	#10-16 x 2"	DP3	.036" - .175"	1.500"	2M
	#10-16 x 3"	DP3	.036" - .175"	2.500"	1M

"HH" Denotes High Hex

MATERIAL: C1018-1022 Carbon Steel

PLATING: Standard: .0003" Min. Electro Zinc (46hrs Salt Spray - ASTM B117)
Meets ASTM C 1513-04 and AISI TS-4-02 Standards

Size	Point Type	Drilling Thickness	Attachment Thickness	Box Quantity	
C	#12-14 x 3/4"	DP3	.036" - .210"	.290"	5M
	#12-14 x 1"	DP3	.036" - .210"	.525"	3.5M
	#12-14 x 1-1/4"	DP3	.036" - .210"	.750"	3M
	#12-14 x 1-1/2"	DP3	.036" - .210"	1.000"	2M
	#12-14 x 2"	DP3	.036" - .210"	1.500"	2M
	#12-14 x 2-1/2"	DP3	.036" - .210"	2.000"	1M
D	#12-14 x 3"	DP3	.036" - .210"	2.500"	1M
	#12-14 x 1-1/4"	DP2 LP	.036" - .200"	.750"	3.5M
E	1/4-14 x 7/8"	DP1 W/VRT	.036" - .090"	.325"	2.5M
	1/4-14 x 3/4"	DP3	.036" - .250"	.210"	2.5M
	1/4-14 x 1"	DP3	.036" - .250"	.460"	2.5M
	1/4-14 x 1-1/4"	DP3	.036" - .250"	.710"	2M
	1/4-14 x 1-1/2"	DP3	.036" - .250"	.960"	2M
	1/4-14 x 2"	DP3	.036" - .250"	1.460"	1.5M
	1/4-14 x 2-1/2"	DP3	.036" - .250"	2.460"	1M
	1/4-14 x 4"	DP3	.036" - .250"	3.460"	500
	1/4-14 x 5"	DP3	.036" - .250"	4.460"	500
	1/4-14 x 6"	DP3	.036" - .250"	5.460"	250
F	1/4-14 x 8"	DP3	.036" - .250"	7.460"	250
	#12-14 x 1-1/4"	DP2 SHLDR	.036" - .200"	.750"	3.5M
G	5/16-18 x 1"	DP3	.100" - .250"	.460"	1.5M
	5/16-18 x 1-1/4"	DP3	.100" - .250"	.710"	1.5M
	5/16-18 x 1-1/2"	DP3	.100" - .250"	.960"	1.5M
H	#12-24 x 7/8"	DP4	.125" - .137"	.325"	5M
	#12-24 x 1-1/4"	DP4	.125" - .137"	.375"	3.5M
I	#12-24 x 1-1/4"	DP5	.250" - .500"	.375"	3.5M
	#12-24 x 1-1/2"	DP5	.250" - .500"	.625"	2.5M
	#12-24 x 2"	DP5	.250" - .500"	1.125"	2M
J	1/4-20 x 1-1/2"	DP5	.250" - .500"	.500"	2M
	1/4-20 x 2-1/4"	DP5	.250" - .500"	1.250"	1M
	1/4-20 x 3"	DP5	.250" - .500"	2.000"	500
	1/4-20 x 4"	DP5	.250" - .500"	3.000"	250
	1/4-20 x 5"	DP5	.250" - .500"	4.000"	250
	1/4-20 x 6"	DP5	.250" - .500"	5.000"	250
K	1/4-20 x 8"	DP5	.250" - .500"	7.000"	150

MATERIAL: C1018-1022 Carbon Steel

PLATING: Long-Life: TRI-SEAL™ Coating (1,000hrs Salt Spray - ASTM B117)
Meets ASTM C 1513-04 and AISI TS-4-02 Standards




Fasteners for Heavy Gauge use provides superior pullover.

We stock a full line of 1/4-20 diameter BLAZER® drill screws for drilling and tapping up to 1/2" thick steel.

BLAZER® self-drilling screws are engineered to drill and tap high tensile steels more consistently with less effort.

SIZES AND PERFORMANCE SPECIFICATIONS

Size	Point Type	Attachment Thickness	Box Quantity
1/4-20 x 1-1/2"	DP5	.500"	2,000
1/4-20 x 2-1/4"	DP5	1.250"	1,000
1/4-20 x 3"	DP5	2.000"	500
1/4-20 x 4"	DP5	3.000"	250
1/4-20 x 5"	DP5	4.000"	250
1/4-20 x 6"	DP5	5.000"	150
1/4-20 x 8"	DP5	7.000"	150



Innovative features assure High performance and easy installation.

- DP5 drills up to 1/2" thick steel with less effort.
- TRI-SEAL™ coating provides 1,000 hrs salt spray.
- Shank slot and spiral flutes reduce tapping torque.
- 5/8" O.D. washer face produces greater pullover resistance.

Great for retrofit metal roofing base attachment!



TECHNICAL DATA

Pullout Test Results

Size	GAGE THICKNESS & ROCKWELL HARDNESS OF THE TEST PLATE			
	16 Ga. (.060")	3/16" (.188")	1/4" (.250")	1/2" (.500")
	65-67Rb	83-85Rb	92-96RB	92-93RB
1/4-20 DP5	708	3,853	4,283*	4,680*

* Exceeds Tensile Strength

Pullover Test Results

Size	GAGE THICKNESS & ULTIMATE PULLOVER IN POUNDS (55 KSI STEEL)				
	26 Ga. (.018")	24 GA. (.024")	22 Ga. (.030")	20 Ga. (.036")	18 Ga. (.046")
	1/4-20 DP5	928	1,238	1,547	1,856

Note: Estimated pullover for fasteners without sealing washers can be calculated using the following formula per AISI.

Pullover force = 1.5 X Thickness of the member in contact with the screw head. X Larger of the screw head diameter or washer diameter. X Tensile strength of the member in contact with the screw head.

Physical Properties

Size	Nominal Screw Diameter	Major Diameter (In.)		Minor Diameter (In.)		Area of Minor Diameter (Sq. In.)
		Max	Min	Max	Min	
1/4-20 DP5	0.250	0.250	0.242	0.218	0.214	0.0360

Performance Specifications

Size	Torsional (In/Lbs.)	Tensile (Lbs.)	Shear (Lbs.)
1/4-20 DP5	156	4,275	2,700

DISCLAIMER: ALL TESTS RESULTS AND SPECIFICATIONS ARE A RESULT OF LABORATORY TESTS. APPROPRIATE SAFETY FACTORS SHOULD BE USED BY THE USER OR SPECIFIER. DETERMINING THE PROPER FASTENER IS THE RESPONSIBILITY OF THE USER OR SPECIFIER. SINCE APPLICATION CONDITIONS VARY AND ARE UNCONTROLLABLE BY TFC, WE ASSUME NO LIABILITY FOR THE USE OF THIS INFORMATION.

PAN FRAMER - ROUND WASHER - PAN HEAD



- ▶ General framing applications
- ▶ Cross recess (Phillips) drive.

SIZES AND PERFORMANCE SPECIFICATIONS



#2 Cross
Recess Drive



Size	Point Type	Drilling Thickness	Attachment Thickness	Box Quantity
A #7-16 x 3/4"	DP2	.036" - .100"	.375"	10M
#8-18 x 1/2"	DP2	.036" - .100"	.205"	10M
#8-18 x 5/8"	DP2	.036" - .100"	.330"	10M
#8-18 x 3/4"	DP2	.036" - .100"	.455"	10M
B #8-18 x 1"	DP2	.036" - .100"	.705"	7.5M
#8-18 x 1-1/4"	DP2	.036" - .100"	1.000"	5M
#8-18 x 1-1/2"	DP2	.036" - .100"	1.205"	5M
#8-18 x 2"	DP2	.036" - .100"	1.750"	1.5M
#10-16 x 1/2"	DP3	.036" - .175"	.150"	10M
#10-16 x 5/8"	DP3	.036" - .175"	.200"	10M
#10-16 x 3/4"	DP3	.036" - .175"	.325"	7.5M
C #10-16 x 1"	DP3	.036" - .175"	.575"	5M
#10-16 x 1-1/4"	DP3	.036" - .175"	.825"	3.5M
#10-16 x 1-1/2"	DP3	.036" - .175"	1.075"	3M

MATERIAL: C1018-1022 Carbon Steel

PLATING: .0002" Min. Electro Zinc (24hrs Salt Spray)

PANCAKE HEAD SCREWS



- ▶ Pancake head provides extra clearance compared to round washer head fasteners.
- ▶ #2 Square/cross recess for exceptional driving stability...NO CAM-OUT!

SIZES AND PERFORMANCE SPECIFICATIONS



#2 Square
Drive Power Bit



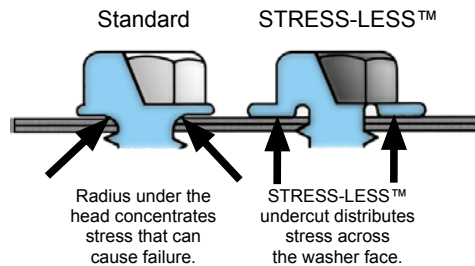
Size	Point Type	Drilling Thickness	Attachment Thickness	Box Quantity
D #10-16 x 5/8"	DP3	.036" - .175"	.200"	10M
E #10-24 x 5/8"	DP3	.036" - .175"	.200"	10M

MATERIAL: C1018 - 1022 Carbon Steel

PLATING: .0003" Min. Electro Zinc with yellow di-chromate (48hrs Salt Spray)

LONG PILOT AND STRESS-LESS FEATURE

Long-pilot Point



- ▶ Great for steel framing when multiple thicknesses are used.
- ▶ STRESS-LESS™ undercut head is designed to eliminate stress that concentrates under the head of fasteners.



SIZES AND PERFORMANCE SPECIFICATIONS

Size	Point Type	Drilling Thickness	Attachment Thickness	Box Quantity
F #12-14 x 7/8"	DP3	.036" - .210"	.325"	2.5M
G 1/4-14 x 7/8"	DP3	.036" - .250"	.325"	2.5M

MATERIAL: C1018-1022 Carbon Steel

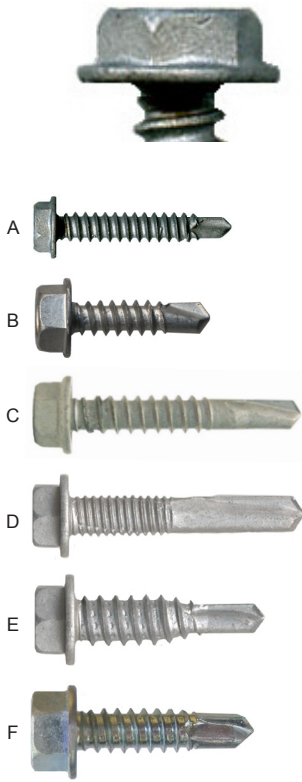
PLATING: .0003" Min. Zinc w/TRI-SEAL™ Coating (1,000hrs Salt Spray)

HEAD TYPE

#12 dia: 5/16" HWH

1/4 dia: 5/16" HWH

410 STAINLESS STEEL DRILL SCREWS



Available with Bonded Sealing Washer
Call for sizes

HEAD TYPE

- #8 dia: 1/4" HWH
- #10 dia: 5/16" H WH
- #12 dia: 5/16" HWH
- *1/4 dia: 5/16" HWH
- 1/4 dia: 3/8 HWH

- ▶ Provides corrosion resistance in mild atmospheres.
- ▶ Plated to resist surface rust and to reduce drive torque.
- ▶ For additional corrosion protection, specify TRI-SEAL™ long-life coating.

SIZES AND PERFORMANCE SPECIFICATIONS

Size	Point Type	Drilling Thickness	Attachment Thickness	Box Quantity	
A	#8-18 x 1/2"	DP2	.036" - .100"	.205"	10M
	#8-18 x 3/4"	DP2	.036" - .100"	.455"	10M
B	#10-16 x 3/4"	DP3	.036" - .175"	.325"	7.5M
	#10-16 x 1"	DP3	.036" - .175"	.575"	5M
	#10-16 x 1-1/2"	DP3	.036" - .175"	1.075"	3M
C	#12-14 x 3/4"	DP3	.036" - .210"	.290"	5M
	*#12-14 x 1"	DP3	.036" - .210"	.525"	3.5M
	*#12-14 x 1-1/4"	DP3 LP	.036" - .210"	.550"	2.5M
	#12-14 x 1-1/2"	DP3	.036" - .210"	1.000"	2.5M
D	#12-14 x 2"	DP3	.036" - .210"	1.500"	2M
	*#12-24 x 1-1/4"	DP5	.250" - .500"	1.000"	5M
E	#12-24 x 1-1/2"	DP5	.250" - .500"	1.205"	5M
	*1/4-14 x 7/8"	DP1	.036" - .090"	.375"	2.5M
F	*1/4-14 x 1-1/8"	DP1	.036" - .090"	.875"	2.0M
	*1/4-14 x 3/4"	DP3	.036" - .250"	.210"	2.5M
	*1/4-14 x 1"	DP3	.036" - .250"	.460"	2.5M
	*1/4-14 x 1-1/2"	DP3	.036" - .250"	.960"	2M
	1/4-14 x 2"	DP3	.036" - .250"	1.460"	1.5M

MATERIAL: 410 Stainless Steel
PLATING: Passivated (24hrs Salt Spray), Zinc Plated (48hrs Salt Spray),
 * Denotes TRI-SEAL™ Coated (1,000hrs Salt Spray)

WOOD-TO-METAL DRILL SCREWS



NEW!
 BLAZER® HEADER Heavy Gauge (1/2" SD) designed to attach up to 1/2" thick steel.

Flat Wafer Head
 #2 Sq. Recess Drive

Flat Wafer

- ▶ Fasten wood-to-metal.
- ▶ No pre-drilling required.
- ▶ TRI-SEAL™ coated for use in ACQ lumber.

SIZES AND PERFORMANCE SPECIFICATIONS

Size	Point Type	Drilling Thickness	Attachment Thickness	Box Quantity	
G	#10-24 x 1-7/16"	DP3 WW	.036" - .210"	.750"	4M
H	#12-14 x 1-3/4"	DP2 WW	.036" - .210"	.750"	2M
	#12-14 x 2-1/2"	DP2 WW	.036" - .210"	1.625"	1M
I	#12-24 x 2"	DP4 WW	.036" - .210"	1.250"	2M
	#12-24 x 2-1/2"	DP4 WW	.036" - .210"	1.750"	1M
J	1/4-20 x 2-3/4"	DP4 WW	.125" - .375"	2.000"	900
	1/4-20 x 3-1/4"	DP4 WW	.125" - .375"	2.750"	900
	1/4-20 x 3-3/4"	DP4 WW	.125" - .375"	3.000"	500
K	1/4-20 x 3-1/8"	DP5 WW	.125" - .500"	1.625"	1M

"WW" Denotes With Wings
MATERIAL: Carbon Steel
PLATING: .0003" min zinc TRI-SEAL™ Coated (1,000hrs Salt Spray)

Size	Point Type	Drilling Thickness	Attachment Thickness	Box Quantity	
L	#10-16 x 1-3/4"	DP3	.036" - .175"	.750"	2.5M
M	#10-24 x 3/4"	DP3	.036" - .175"	.375"	5M
	#10-24 x 1"	DP3	.036" - .175"	.500"	5M
	#10-24 x 1-1/4"	DP3	.036" - .175"	.750"	3.5M
	#10-24 x 1-1/2"	DP3	.036" - .175"	.875"	3M

MATERIAL: Carbon Steel
PLATING: .0003" min zinc TRI-SEAL™ Coated (1,000hrs Salt Spray)

BLAZER® WITH BONDED SEALING WASHER

- ▶ **BOND-SEALER™** is a sealing washer that has EPDM vulcanized to a 20 Gauge galvanized backing that will withstand harsh weather conditions.
- ▶ **TRI-SEAL™** long life coated for superior corrosion protection.

SIZES AND PERFORMANCE SPECIFICATIONS

	Size	Point Type	Drilling Thickness	Attachment Thickness	Box Quantity
A	#10-16 x 1"	DP3	.036" - .175"	.575"	5M
	#10-16 x 1-1/2"	DP3	.036" - .175"	1.075"	3M
B	#12-14 x 3/4"	DP3	.036" - .210"	.290"	5M
	#12-14 x 1"	DP3	.036" - .210"	.525"	3.5M
	#12-14 x 1-1/4"	DP3 LP	.036" - .210"	.750"	3.5M
	#12-14 x 1-1/2"	DP3	.036" - .210"	1.000"	2.5M
	#12-14 x 2"	DP3	.036" - .210"	1.500"	2M
	#12-14 x 2-1/2"	DP3	.036" - .210"	2.000"	1M
C	#12-24 x 1-1/4"	DP5	.250" - .500"	.375"	3.5M
	#12-24 x 1-1/2"	DP5	.250" - .500"	.625"	2.5M
	#12-24 x 2"	DP5	.250" - .500"	1.125"	2M
D	1/4-14 x 7/8"	DP1 W/VRT*	.036" - .090"	.325"	2.5M
	1/4-14 x 3/4"	DP3	.036" - .250"	.210"	2.5M
E	1/4-14 x 1"	DP3	.036" - .250"	.460"	2.5M
	1/4-14 x 1-1/4"	DP3	.036" - .250"	.710"	2M
	1/4-14 x 1-1/2"	DP3	.036" - .250"	.960"	2M
	1/4-14 x 2"	DP3	.036" - .250"	1.460"	1.5M
	1/4-14 x 2-1/2"	DP3	.036" - .250"	2.460"	1M
	1/4-14 x 4"	DP3	.036" - .250"	3.460"	500
	1/4-14 x 5"	DP3	.036" - .250"	4.460"	500
	1/4-14 x 6"	DP3	.036" - .250"	5.460"	250
	1/4-20 x 4"	DP5	.250" - .500"	3.000"	500
	1/4-20 x 5"	DP5	.250" - .500"	4.000"	500
F	1/4-20 x 6"	DP5	.250" - .500"	5.000"	250
	1/4-20 x 7"	DP5	.250" - .500"	6.000"	150
	1/4-20 x 8"	DP5	.250" - .500"	7.000"	150

MATERIAL: C1018-1022 Carbon Steel
PLATING: .0003" Min. Zinc w/TRI-SEAL™ Coating (1,000hrs Salt Spray)



LP denotes long-pilot design for metal roofing and siding



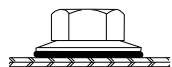
WASHER DETAILS
20 ga G-90 Galvanized Steel
Vulcanized to .062" thick EPDM
15MM OD Washer



HEAD TYPE
#10 dia: 5/16" HWH
#12 dia: 5/16" HWH
*1/4 dia: 5/16" HWH
1/4 dia: 3/8" HWH



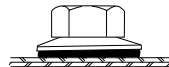
Proper Fastener Installation



CORRECT
Slight circle of sealant extrudes to outer edge.



TOO TIGHT!
Metal backing begins to turn up.



TOO LOOSE
Sealant is not compressed and can not form a seal.

To assure a proper seal, torque the fastener until the EPDM sealant extrudes to the outer edge of the backing material.

BLAZER® FLANGE-SEAL HEAD WITH EPDM WASHER

- ▶ **FLANGE-SEAL™** self-sealing fastener has a deep undercut head that entraps the EPDM sealing washer to assure a leak free seal.
- ▶ **TRI-SEAL™** long-life coated for superior corrosion protection.

SIZES AND PERFORMANCE SPECIFICATIONS

	Size	Point Type	Drilling Thickness	Attachment Thickness	Box Quantity
G	#12-14 x 3/4"	DP2/DP3	.036" - .210"	.290"	5M
	#12-14 x 1"	DP2/DP3	.036" - .210"	.525"	3.5M
	#12-14 x 1-1/4"	DP2/DP3 LP	.036" - .210"	.750"	3.5M
	#12-14 x 1-1/2"	DP2/DP3	.036" - .210"	1.000"	2.5M
	#12-14 x 2"	DP2/DP3	.036" - .210"	1.500"	2M
	#12-14 x 2-1/2"	DP2/DP3	.036" - .210"	2.000"	1M
H	1/4-14 x 7/8"	DP1 W/VRT*	.036" - .090"	.325"	2.5M
I	1/4-14 x 3/4"	DP3*	.036" - .250"	.210"	2.5M
	1/4-14 x 1"	DP3*	.036" - .250"	.460"	2.5M
	1/4-14 x 1-1/2"	DP3*	.036" - .250"	.960"	2M

MATERIAL: C1018-1022 Carbon Steel
PLATING: .0003" Min. Zinc w/TRI-SEAL™ Coating (1,000hrs Salt Spray)



LP denotes long-pilot design for metal roofing and siding



HEAD TYPE
#12 dia: 5/16" HWH
1/4 dia: 5/16" HWH



WASHER DETAILS
.125" Thick EPDM

1/4-14 DP3 - DRILL AND TAP UP TO 1/4" THICK STEEL

Fasten into metal from 20 gauge up to 1/4"



#14 DP3 CONCEALOR® pancake head screws are designed for heavy gauge applications and can drill and tap up to 1/4" steel. The 1/4-14 thread produces greater strength and resists bending compared to smaller diameter screws.

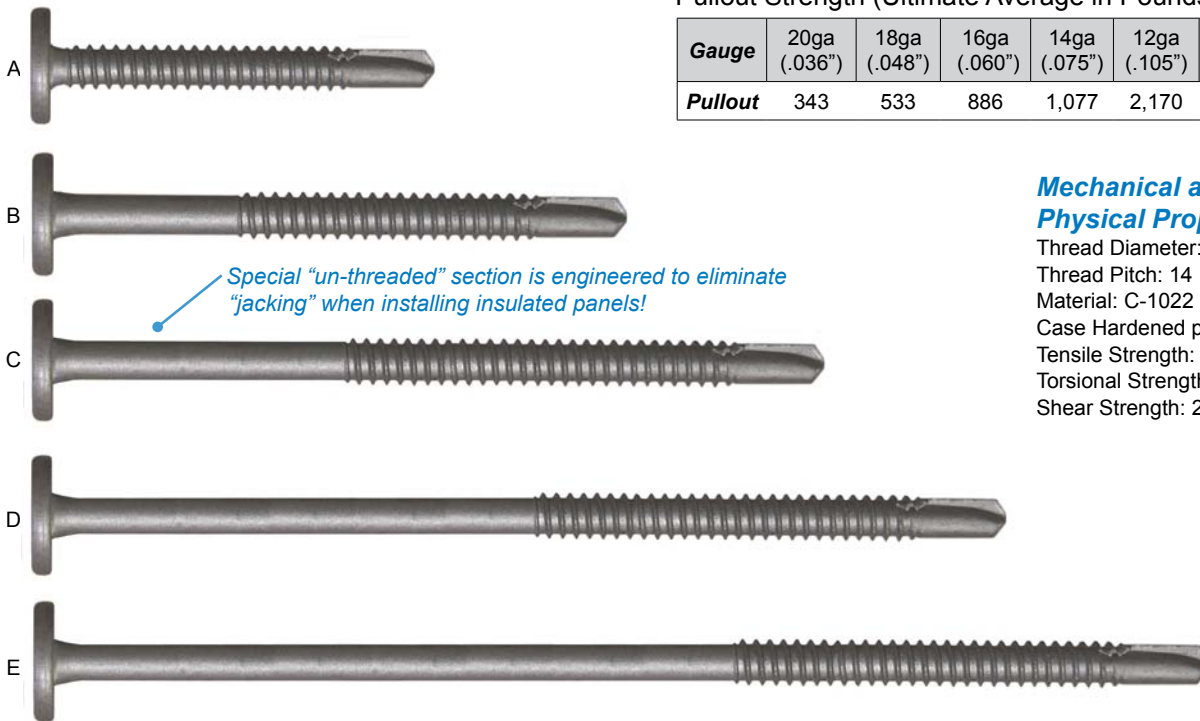
These screws are coated with TRI-SEAL™ long-life coating that exceeds FM4470 specification and provide 1,000-hours salt spray performance.

SPECIAL HEAD DESIGN

- 5/8" diameter head increases pullover strength and minimizes dimpling.
- #3 square recess drive provides stability during installation.

Description	Attachment Thickness	Part Number	Carton Quantity	Wt Per M Pcs
A 1/4-14 x 2" DP3	1.000" Max	14200SPC3CSTS	1,000 pcs	19#
B 1/4-14 x 3" DP3	1.375" to 2.125"	14300SPC3CSTS	1,000 pcs	27#
C 1/4-14 x 4" DP3	1.625" to 3.125"	14400SPC3CSTS	500 pcs	34#
D 1/4-14 x 5" DP3	2.750" to 4.125"	14500SPC3CSTS	500 pcs	42#
E 1/4-14 x 6" DP3	3.750" to 5.125"	14600SPC3CSTS	500 pcs	50#

Choose from a variety of lengths!



Special "un-threaded" section is engineered to eliminate "jacking" when installing insulated panels!

PERFORMANCE SPECIFICATIONS

Pullout Strength (Ultimate Average in Pounds)

Gauge	20ga (.036")	18ga (.048")	16ga (.060")	14ga (.075")	12ga (.105")	1/8" (.125")	3/16" (.188")	1/4" (.250")
Pullout	343	533	886	1,077	2,170	2,030	3,863	*4,493

* Exceeds tensile strength

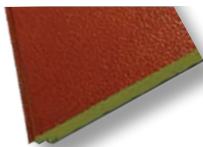
Mechanical and Physical Properties (minimum)

Thread Diameter: 1/4" (.250" nominal)
 Thread Pitch: 14
 Material: C-1022
 Case Hardened per SAE J-78
 Tensile Strength: 4,275 lbs.
 Torsional Strength: 150 lbs.-in.
 Shear Strength: 2,600 lbs.

Special Applications

Use to attach a variety of material to steel up to 1/4" thick!

ARCHITECTURAL INSULATED PANELS



STRUCTURAL INSULATED PANELS



NAIL BASE



METAL ROOF CLIPS

