

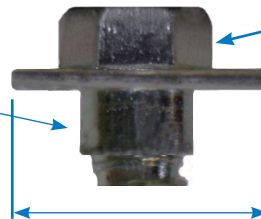
Proprietary standoff screw designed to allow thermal expansion of the rake support angle

We designed a BLAZER[®] Drill Screw specifically for attaching a sliding rake plate used in metal roofing.

The screw has an oversize washer face that provides more bearing surface between the fastener and the rake plate angle that allows superior movement capabilities.



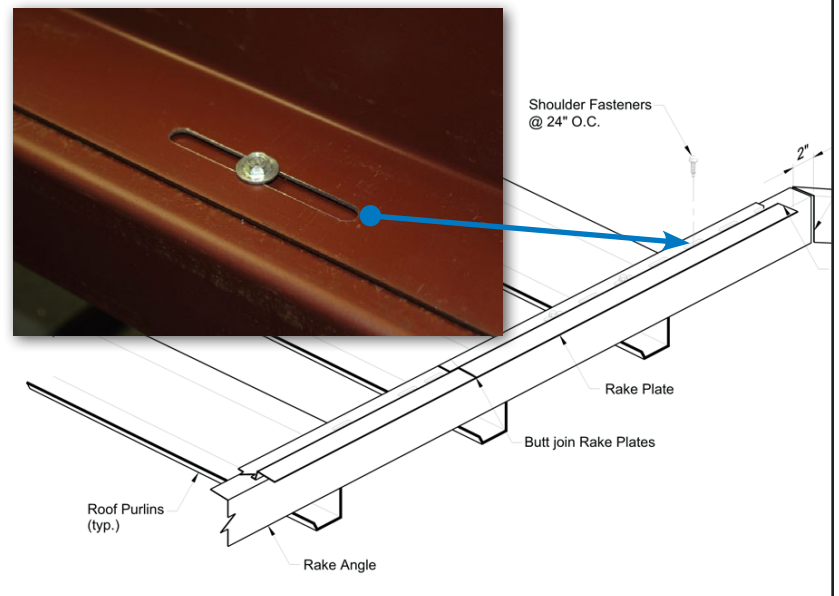
Special shoulder keeps screw from "over-clamping" the rake support, allowing for thermal expansion.



5/16" hex drive is the same size as other standard metal roofing fasteners for easy installation.

Oversize washer face provides over 45% more surface area that is in contact with the rake support!

TYPICAL APPLICATION



SIZE

Size	Point Type	Head Size	Attachment Thickness	Box Quantity
1/4-14 x 1-1/4"	DP3	5/16" HWH	.150" standoff	2,000



Finish: JS500 | Zinc Plating.

Salt Spray

400 hours | No red rust per ASTM B117

TECHNICAL DATA

Pullout Test Results

Fastener Size	PULLOUT ALLOWABLE Grade 50/55 Steel 65Ksi Calculated Values In Accordance to AISI S100 Section E4 Applied Factor of Safety = 3						
	18 Ga. (.048")	16 Ga. (.060")	14 Ga. (.075")	12 Ga. (.105")	1/8" (.125")	10 ga (.135")	1/4" (.250")
1/4-14 BLAZER 3	221.0	276.2	345.3	483.4	575.5	621.6	1,151.0

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")
1/4-14 DP3	928	1,238	1,547	1,856	2,475

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	
1/4-14 BLAZER 3	0.250	0.250	0.242	0.218	0.214	0.0360

Performance Specifications

Size	Torsional (lbs-Inch)	Tensile (Lbs.)	Shear (Lbs.)
1/4-14 DP3	150	4,275	2,600

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.