



PRODUCT DATA

Bi-Metal S500 SDS Flanged Hex Head

Self Drilling Screw (SDS) #12-24

Applications	
<ul style="list-style-type: none"> • Metal to metal fixing • Cladding metal sheets • Signs, fences and sheds • Thick steel purlins and hot rolled steel • Plumbing, steel fabrication and HVAC systems • Ideal for corrosive conditions 	

Material	 B304 Bi-Metal 304 Stainless
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Finish	 R10 R1000 Hours Protective Coating
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Pullout Values				
Plate (Purlin)	Metal Plate Thickness	¹ Mean Load	² Characteristic Load	³ Working Load
	(mm)	(N)	(N)	(N)
G2	3.0	5100	4300	1700
HRS	5.0	11200	9950	4000
HRS	6.0	11750	10950	4400
HRS	8.0	11950	11500	4600

12 Gauge Hex Head with S500 Extended Drill Point



Drill Point Test					
Plate (Purlin)	Metal Plate Thickness	Load	Drill Speed	Drill Time	Drill Time
	(mm)	(kg)	(RPM)	(Max. individual) Seconds	(Max. average) Seconds
CRS	8	27	2200	10	7

Mechanical Properties				
Torsional Strength	¹ Mean Tensile Strength	¹ Mean Shear Strength	² Characteristic Tensile Strength	² Characteristic Shear Strength
(Nm)	(N)	(N)	(N)	(N)
11.3	12500	7500	12300	7400

Note: 1000N = 1kN

¹ Mean Load/Strength is the average ultimate strength of samples tested.

² Characteristic Load/Strength: 95% of these screws are expected to have a strength greater than the loads shown.

³ Working Load is the governing minimum allowable load obtained by comparing relevant concrete and steel working loads. Factor of Safety (FOS=2.5 for steel, FOS=2.5 for timber and FOS=3.0 for concrete) are already included.

All values are obtained under laboratory conditions using DRILLX product. Safety factors should be considered for design purposes. Actual pullout loads may differ slightly depending on certain properties of the base material.

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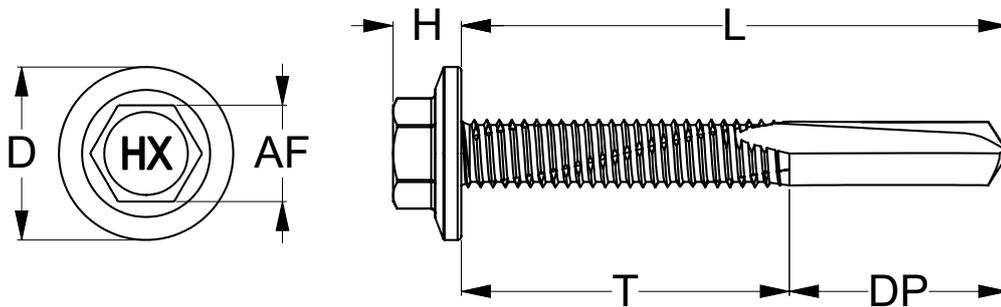




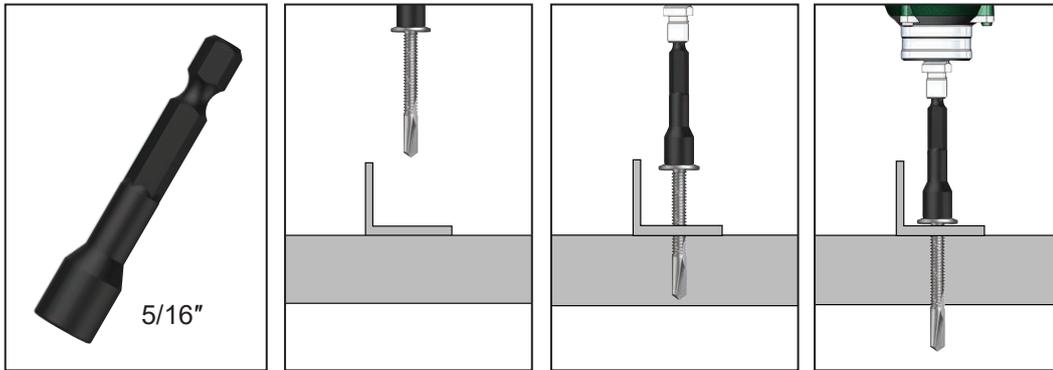
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Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	AF (inch)	
T4X5XFH1224044	QB11	12	24	44	29	15	5.5	14	HEX 5/16"	500
T4X5XFH1224065	QB12			65	50					



Installation



Recommended
HEX 5/16 inch Drive Bit:

Part	QFind	Length (mm)
TXDIPNSS31045	BA18	45
TXDIPNSS31065	B090	65

Installation Guide

1. Use a cordless screw driver set between 2,200-3,000 RPM. Fit the HEX Drive Bit over the screw and place at the fastening position.
2. Apply consistently firm pressure to the screw driver while the screw is drilling.
3. Care should be taken not to over-tighten the screw.

*Installation with impact drivers not recommended.

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