



PRODUCT DATA

S500 SDS Hex Head and Washer

Self Drilling Screw (SDS) #12-24

Applications	
<ul style="list-style-type: none"> • Metal to metal fixing • Thick steel purlins and hot rolled steel • Roofing and walling sheets to hot rolled steel 	

Material	 C1022 Hardened
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Finish	 Class 4
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Pullout Values				
Plate (Purlin)	Metal Plate Thickness	¹ Mean Load	² Characteristic Load	³ Working Load
	(mm)	(N)	(N)	(N)
G450	2	4250	3550	1400
G2	3	5900	5600	2250
HRS	5	14550	13450	5350
HRS	6	17350	16650	6650

12 Gauge 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	8.0	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	17600	10550	17000	10200

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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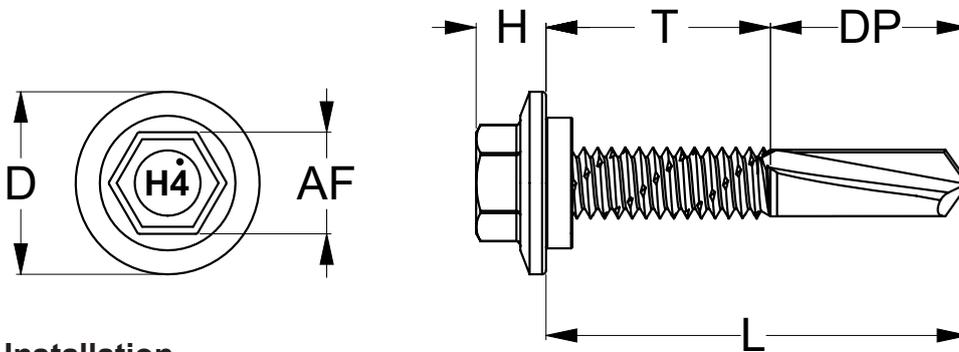




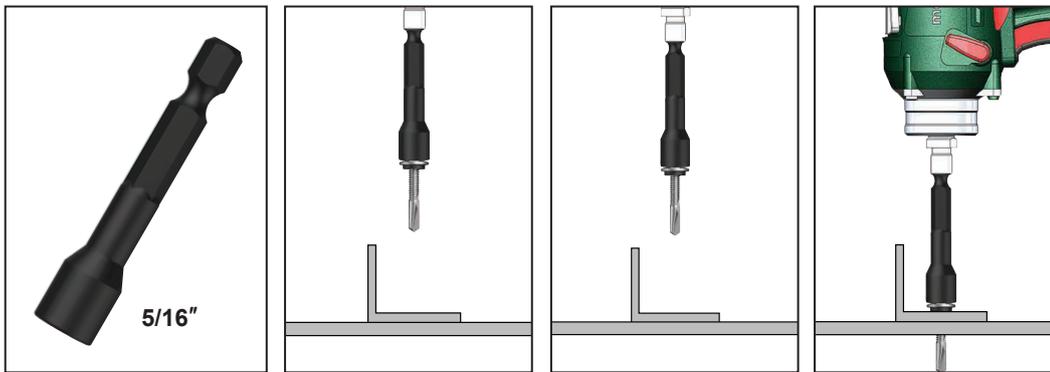
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Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	AF (inch)	
T9P54SH1224032	Q486	12	24	32	17	15	5.5	14	HEX 5/16"	1000
T9P54SH1224050	Q488			50	35					
T9P54SH1224065	Q490			65	50					
T9P54SH1224085	Q489			85	70					500



Installation



Recommended
HEX Size 5/16 inch Drive Bit:

Part	QFind	Size (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 Size #5/16 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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