




# PRODUCT DATA

## Metal SDS Flanged Hex Head and Seal

### Self Drilling Screw (SDS) #12-14

Applications	
•	Metal to metal fixing
•	Wall cladding • Sheds
•	Fencing and gates
•	Signage • Crest fixing corrugated roofing to steel purlins
•	Hinges into metal posts, gates and doors

<b>Material</b>	 C1022 Hardened
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<b>Finish</b>	 Class 4
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Pullout Values				
Plate (Purlin)	Metal Plate Thickness	<sup>1</sup> Mean Load	<sup>2</sup> Characteristic Load	<sup>3</sup> Working Load
	(mm)	(N)	(N)	(N)
G2	1.1	1650	1400	550
G450	2.0	5000	4650	1850
G450	2.5	6900	6200	2500
G450	3.8	10350	9600	3850

## 12 Gauge Head Hex and Seal



Drill Point Test					
Plate (Purlin)	Metal Plate Thickness	Load	Drill Speed	Drill Time	Drill Time
	(mm)	(kg)	(RPM)	(Max. individual) Seconds	(Max. average) Seconds
G450	2.0	18	2200	5.5	4

Mechanical Properties				
Torsional Strength	<sup>1</sup> Mean Tensile Strength	<sup>1</sup> Mean Shear Strength	<sup>2</sup> Characteristic Tensile Strength	<sup>2</sup> Characteristic Shear Strength
(Nm)	(N)	(N)	(N)	(N)
10.9	16450	9900	13800	8300

Note: 1000N = 1kN

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

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

<sup>3</sup> 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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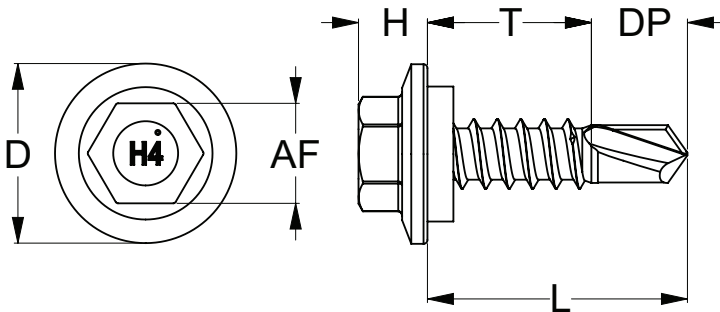




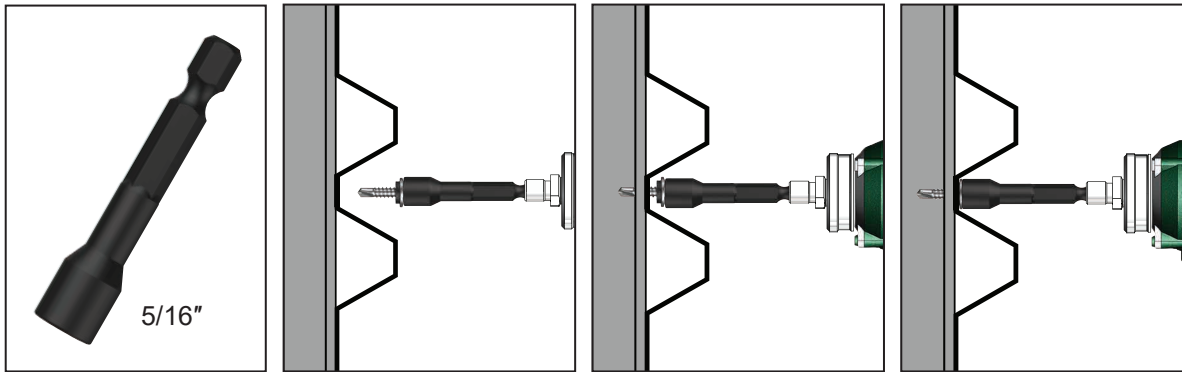
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## Metal SDS Flanged Hex Head and Seal

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)	
T9PM4SH1214020	<b>Q285</b>	12	14	20	13	7.5	5.5	14	HEX 5/16"	1000
T9PM4SH1214035	<b>Q290</b>			35	28					1000
T9PM4SH1214045	<b>Q300</b>			45	38					1000



### Installation



Recommended  
HEX 5/16 inch Drive Bit:

- TXDIPNSS31045 - 45mm
- TXDIPNSS31065 - 65mm
- TXDDPNSS31100 - 100mm
- TXDDPNSS31150 - 150mm
- TXDDPNSS31200 - 200mm
- TXDDPNSS31300 - 300mm

### 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 overtighten the screw.

\*Installation with impact drivers not recommended.

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