




# PRODUCT DATA

## Metal SDS Flanged Hex Head, Seal and Scratchguard®

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

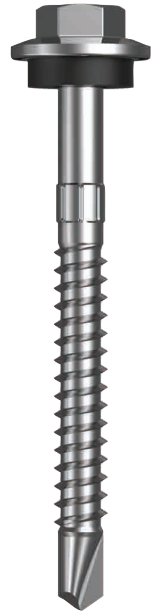
Applications	
<ul style="list-style-type: none"> <li>• Metal to metal fixing</li> <li>• Fixing roofing profiles and wall cladding to steel purlins/ battens</li> <li>• Crest fixing- roofing sheet</li> <li>• Metal roofing- car ports, sheds, cladding and pergolas</li> </ul>	

<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 Hex Head



**Scratchguard®**

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	2.5	24	2200	4	3

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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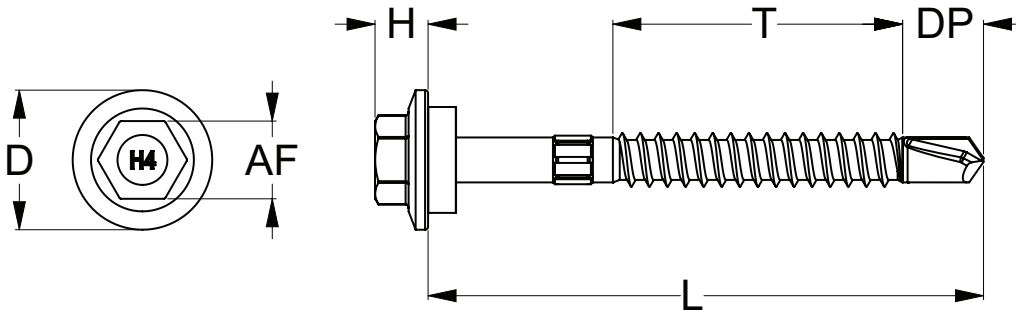




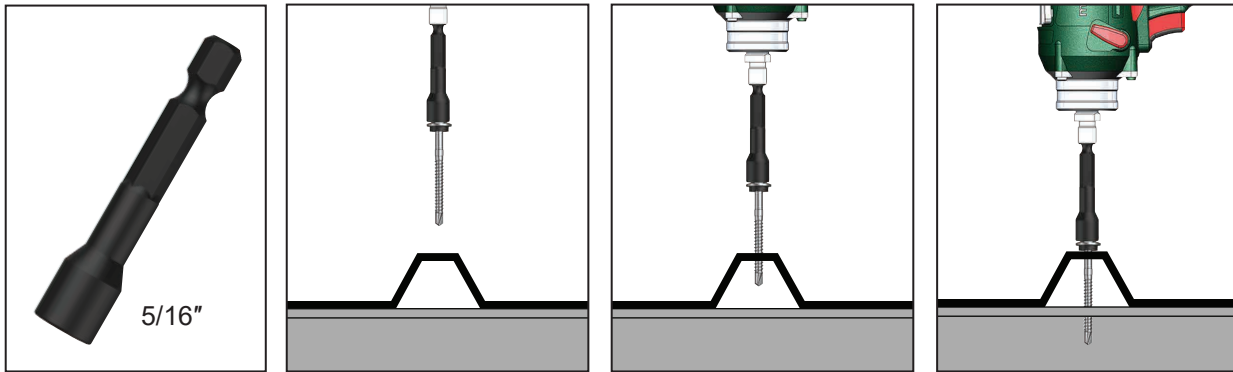
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## Metal SDS Flanged Hex Head, Seal and Scratchguard®

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)	
T9PM4SS1214055	Q310	12	14	55	26	7.5	5.5	14	HEX 5/16"	500
T9PM4SS1214065	Q315			65	41					
T9PM4SS1214075	Q320			75	41					



### Installation



Recommended  
HEX 5/16 inch Drive Bit:

Part	QFind	Length
		(mm)
TXDIPNSS31045	BA18	45
TXDIPNSS31065	B090	65
TXDDPNSS31100	B060	100
TXDDPNSS31150	B075	150
TXDDPNSS31200	BA01	200
TXDDPNSS31300	BA02	300

### 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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