




PRODUCT DATA

Metal SDS Flanged Hex Head and Washer

Self Drilling Screw (SDS) #14-14

Applications	
<ul style="list-style-type: none"> • Metal to metal fixing • Fixing roofing profiles and wall cladding to steel purlins/ battens • Crest fixing (corrugated roofing and other profiles) • Metal roofing - car ports, shed and cladding 	

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)
G2	0.8	1150	1000	400
G2	1.0	2050	1850	750
G2	1.5	4600	4200	1650
G450	2.0	6000	5650	2250
G2	2.5	8000	7500	3000
G450	3.0	8700	8300	3300

14 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	2.0	18	2200	6.0	5.0

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)
16.9	22400	13450	20700	12400

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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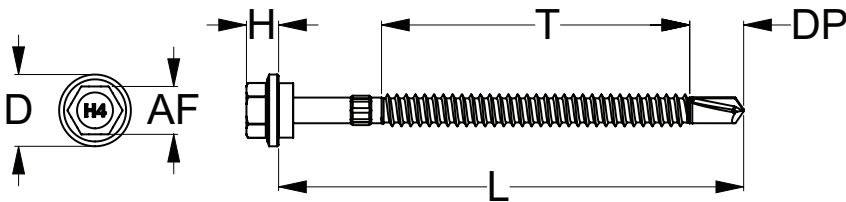




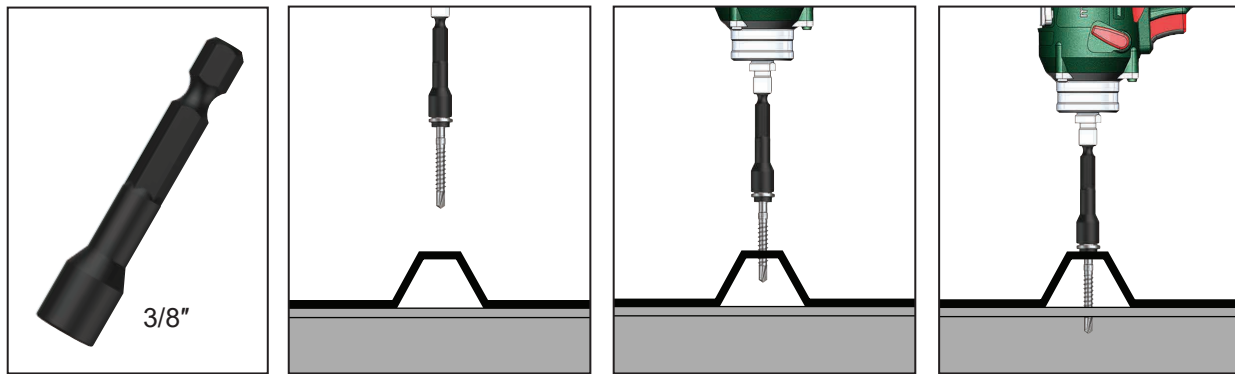
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Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	AF (inch)	
T9PM4SS1414090	Q350	14	14	90	24	7.5	5.5	14	HEX 3/8"	250
T9PM4SS1414115	Q260			115	32					
T9PM4SS1414150	Q270			150	43					



Installation



Recommended HEX 3/8 inch Drive Bit:

Part	QFind	Length (mm)
TXDIPNSS37045	BA22	45
TXDIPNSS37065	B095	65
TXDIPNSS37150	BA23	150

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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