




PRODUCT DATA

Metal SDS Hex, Washer and XGrip®

Metal to metal fixing - Self Drilling Screw (SDS) #14-14

Applications	
<ul style="list-style-type: none"> Fastening insulated roofing panels to steel purlins Crest fixing 	

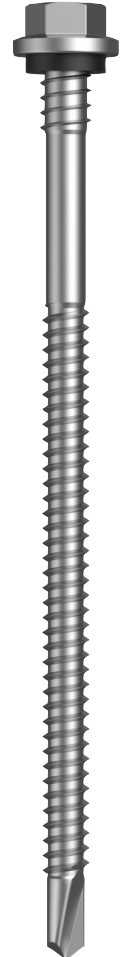
Material	 C1022 Hardened
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Finish	 Class 4
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Pullout Values				
Plate (Purlin)	Metal Plate Thickness	¹ Mean Load	² Characteristic Load	³ Working Load
	(mm)	(N)	(N)	(N)
G2	0.7	1150	1000	400
G2	1.1	2050	1850	750
G2	1.5	4600	4200	1700
G450	1.9	6000	5650	2250
G450	2.4	8700	8300	3300
G2	2.9	8000	7500	3000

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	1.9	18	2200	6	5

14 Gauge Roofing Screw DX4™



XGRIP

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	21800	13100	16150	9700

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 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 pull out loads may differ depending on certain properties of the base material.

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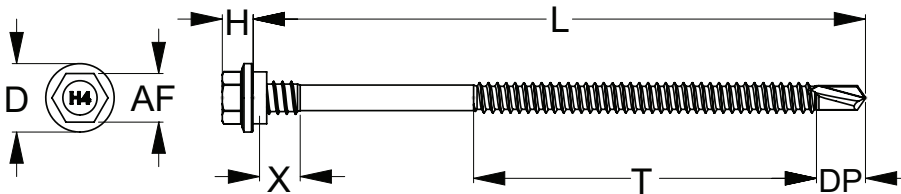




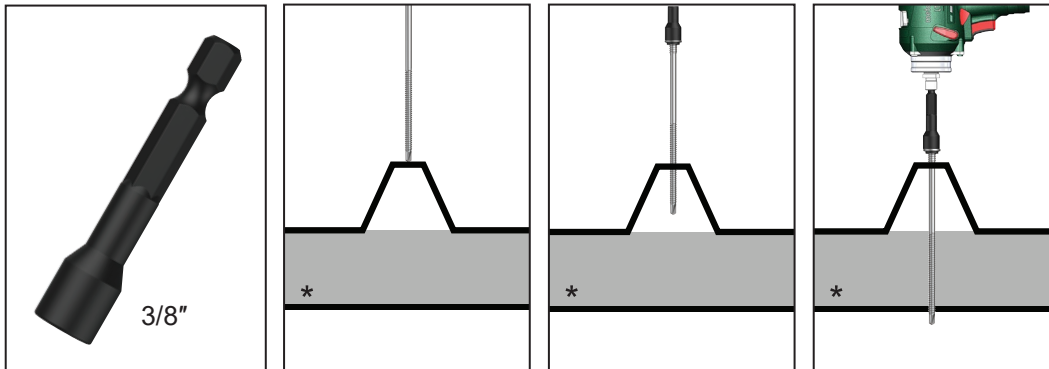
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Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head ø	Head Height	XGrip® Thread Length	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	D (mm)	H (mm)	X (mm)	AF (inch)	
T9PM4XH1414110	QA20	14	14	110	70	10	14	6	7.3	HEX 3/8"	250
T9PM4XH1414125	QA21			125							
T9PM4XH1414150	QA22			150							
T9PM4XH1414175	QA23			175							
T9PM4XH1414205	QA24			205							
T9PM4XH1414230	QA25			230							
T9PM4XH1414300	QA26			300							100



Installation



* Insulation panel

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 overtighten the screw.

*Installation with impact drivers not recommended.

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