T9PM4XS1214

PRODUCT DATA

Metal SDS Hex, Seal, Scratchguard® and XGRiP®

Self Drilling Screw (SDS) #12-14

Applications

- Metal to metal fixing
- Fastening roofing panels to steel purlins/battens
- Crest fixing- roofing sheet
- XGRiP® to hold roofing profile (if external load applied)

12 Gauge Hex Head

Material	1022 C1022 Hardened
Finish	CL4 Class 4

XGRiP®

Scratchguard®

Pullout Values

Plate (Purlin)	Metal Plate Thickness	[1]Mean Load	[2]Characteristic Load	[3]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

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	[1]Mean Tensile Strength	[1]Mean Shear Strength	[2]Characteristic Tensile Strength	[2]Characteristic Shear Strength
(Nm)	(N)	(N)	(N)	(N)
10.9	16450	9900	13800	8300

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.

DRiLLX®

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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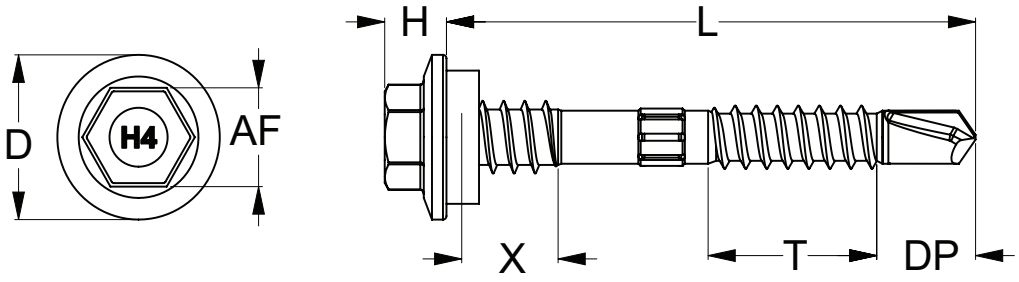
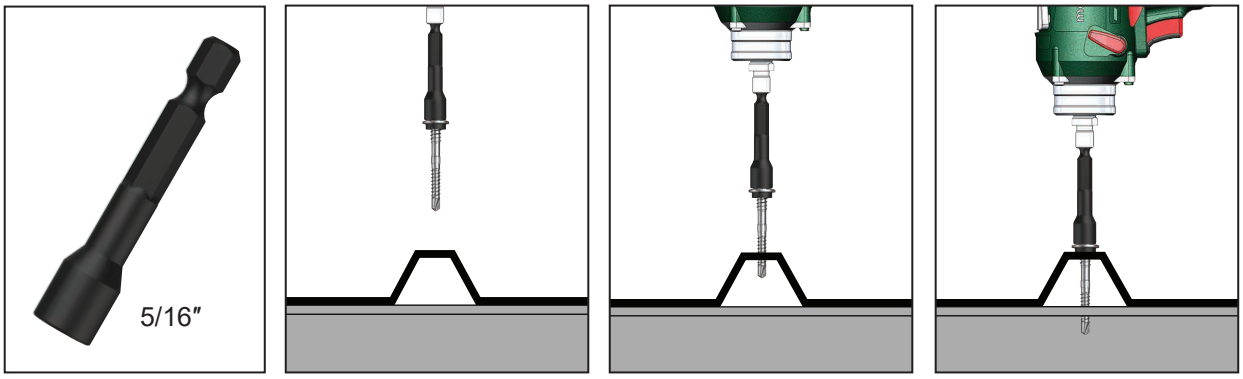
Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	XGRiP® Thread Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	X (mm)	H (mm)	D (mm)	AF (inch)	
T9PM4XS1214048	**Q305**	12	14	48	22	7.5	7.8	5.5	14	HEX 5/16″	1000
T9PM4XS1214055	**Q306**			55	26						500
T9PM4XS1214068	**Q308**			68	28						
T9PM4XS1214080	**Q309**			80	40						



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 over-tighten the screw.

*Installation with impact drivers not recommended.