T9PM4FS1410

PRODUCT DATA

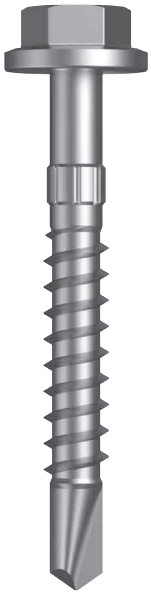
Metal SDS Flanged Hex Head and Scratchguard®

Self Drilling Screw (SDS) #14-10

Applications
• Metal to metal fixing • Wall cladding • Fencing and gates • Signage • Hinges into metal posts, gates and doors

Material	1022 C1022 Hardened
Finish	CL4 Class 4

14 Gauge Hex Head



Scratchguard®

Pullout Values				
Plate (Purlin)	Metal Plate Thickness	[1]Mean Load	[2]Characteristic Load	[3]Working Load
	(mm)	(N)	(N)	(N)
G2	0.8	1100	900	350
G2	1.2	2050	1750	700
G550	1.6	4750	4300	1700
G450	2.0	6300	6000	2400
G450	2.5	8000	7350	2950
G2	3.0	8150	7450	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	2.0	18	2200	6	5

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)
14.1	21200	12700	20850	12500

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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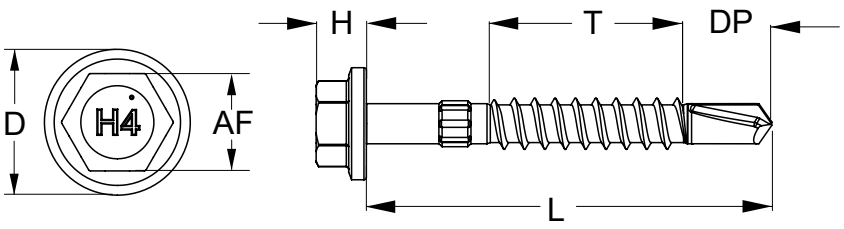
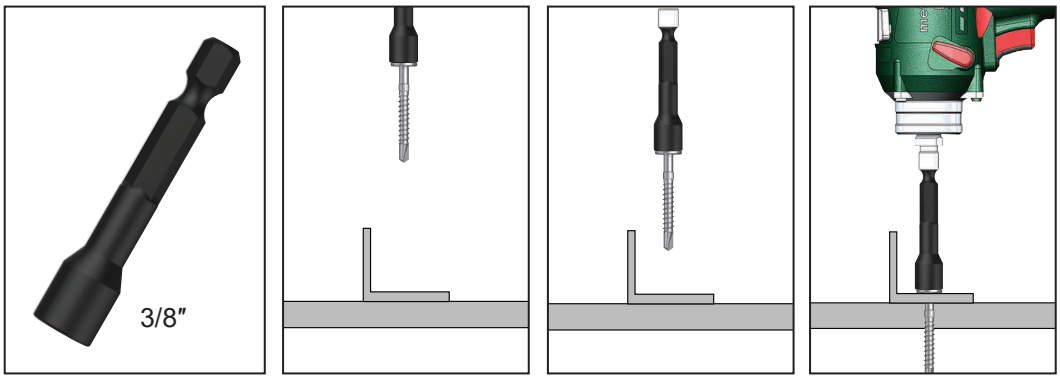
Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	AF (inch)	
T9PM4FS1410050	**QA76**	14	10	50	25	10.0	6.2	15	HEX 3/8″	1000
T9PM4FS1410075	**QA77**			75	40					500



Installation



Recommended
HEX 3/8 inch Drive Bits:

Part	QFind	Size
		(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.