



PRODUCT DATA

Metal SDS Flanged Hex Head

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Self Drilling Screw (SDS) #14-20

Applications

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

Material



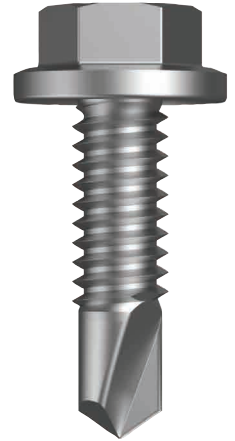
C1022 Hardened

Finish



Class 4

14 Gauge Hex Head



Pullout Values

Plate (Purlin)	Metal Plate Thickness	¹ Mean Load	² Characteristic Load	³ Working Load
	(mm)	(N)	(N)	(N)
G2	0.8	1000	800	300
G2	1.2	1750	1550	600
G550	1.6	3550	2950	1200
G450	2.0	4600	4150	1650
G450	2.5	7900	7200	2850
G2	3.0	6700	5700	2300

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	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)
17.6	23000	13800	21500	12900

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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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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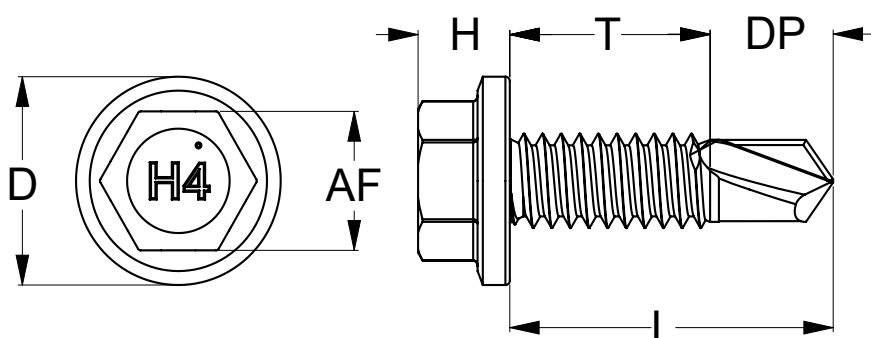


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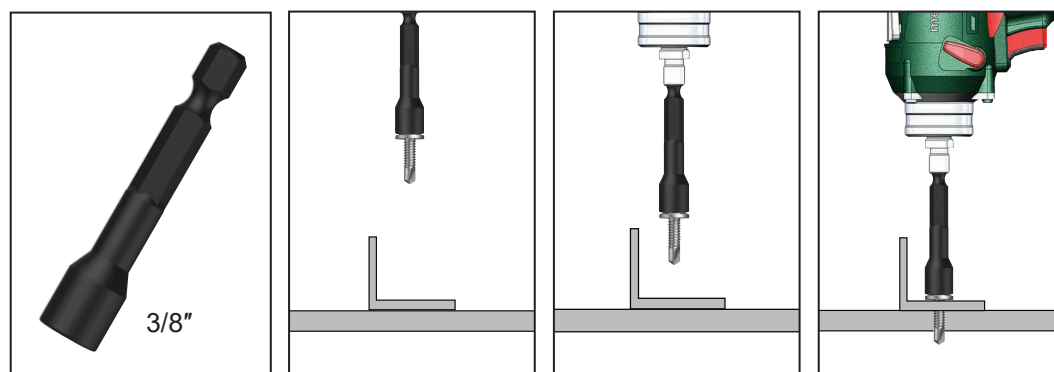
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Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	AF (inch)	
T9PM4FH1420022	Q254	14	20	22	14	8.5	6.2	15	HEX 3/8"	1000
T9PM4FH1420025	Q255			25	17					1000
T9PM4FH1420045	Q738			45	37					500



Installation



Recommended
HEX 3/8 inch Drive Bit:

TXDIPNSS37045 - 45mm
TXDIPNSS37065 - 65mm
TXDIPNSS37150 - 150mm

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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