T9PMZFH1016

PRODUCT DATA

Metal SDS Flanged Hex Head

Self Drilling Screw (SDS) #10-16

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

10 Gauge Hex Head

Material	1022 C1022 Hardened
Finish	Z/P Zinc Plated (RoHS Compliant)

Pullout Values

Plate (Purlin)	Metal Plate Thickness	[1]Mean Load	[2]Characteristic Load	[3]Working Load
	(mm)	(N)	(N)	(N)
G2	0.7	950	900	350
G2	1.1	1850	1600	650
G550	1.5	4000	3600	1450
G450	1.9	5250	4850	1950
G450	2.4	7150	6300	2500

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	15	2200	4	3

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)
6.9	12700	7600	11550	6950

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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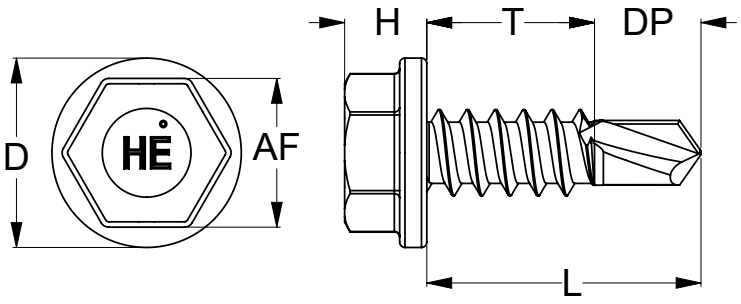
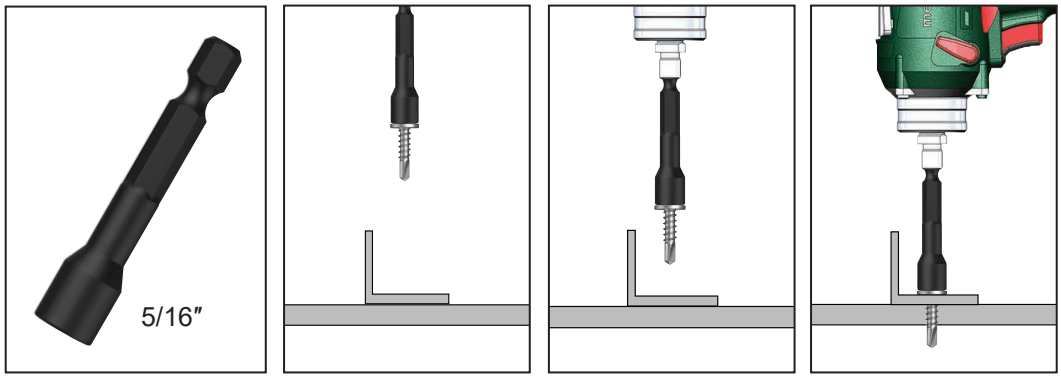
Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	AF (inch)	
T9PMZFH1016016	**Q512**	10	16	16	10	6.2	4.5	11	HEX 5/16"	1000



Installation



Recommended
HEX 5/16 inch Drive Bit:

TXDIPNSS31045 - 45mm
TXDIPNSS31065 - 65mm
TXDDPNSS31100 - 100mm
TXDDPNSS31150 - 150mm
TXDDPNSS31200 - 200mm
TXDDPNSS31300 - 300mm

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.