




PRODUCT DATA

Metal SDS Wafer Head Phillips

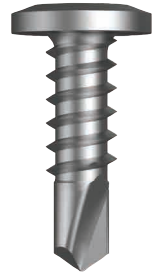
Self Drilling Screw (SDS) #10-16

Applications	
<ul style="list-style-type: none"> • Sheet metal to metal fixing • Wall cladding • Signage • Fencing • Conduit and pipe saddles 	

Material	 C1022 Hardened
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Finish	 Class 3
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10 Gauge Wafer Head



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	1800	1600	650
G550	1.5	4000	3600	1400
G450	2.0	5200	4850	1950
G450	2.5	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	2.0	18	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	11800	7100	9550	5750

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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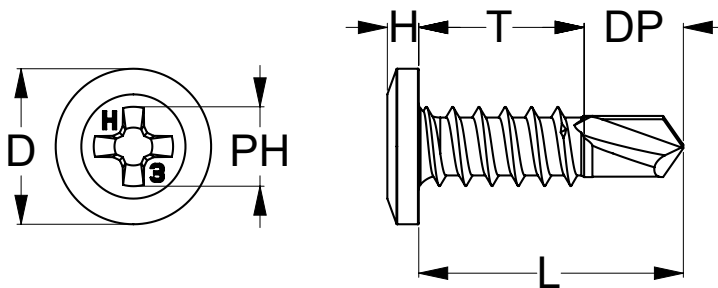




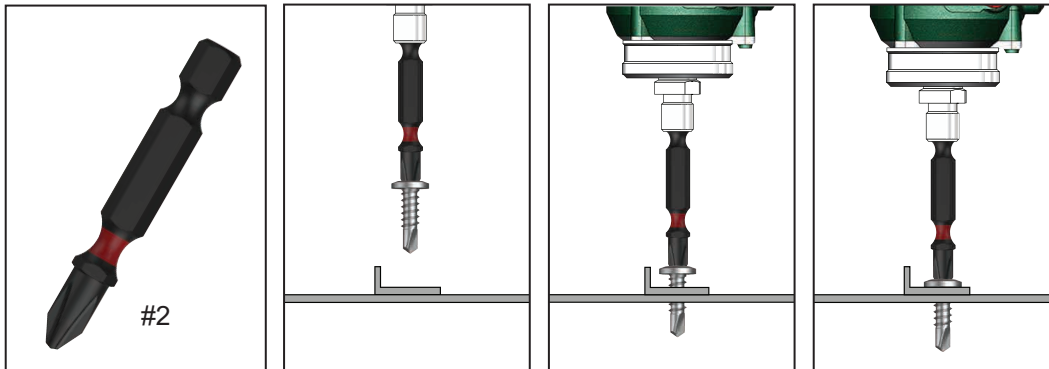
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Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	PH	
T9PM3WP1016016	Q380	10	16	16	9.8	6.2	2	9	Phillips #2	1000
T9PM3WP1016022	Q382			22	15.8					
T9PM3WP1016030	Q384			30	23.8					
T9PM3WP1016040	Q386			40	33.8					
T9PM3WP1016050	Q387			50	43.8					



Installation



Recommended
Phillips Size #2 Drive Bit:

Part	QFind	Length (mm)
TXDIPPHS20050	B316	50
TXDIPPHS20075	BA27	75
TXDIPPHS20100	B326	100
TXDIPPHS20150	B331	150

Installation Guide

1. Use a cordless screw driver set between 2,200-3,000 RPM. Fit the Phillips 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.

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