




PRODUCT DATA

Metal SDS Cyclone Multiseal

Self Drilling Screw (SDS) #14-10

Applications	
•	Metal to metal fixing
•	Crest fixing- roofing sheet in cyclonic areas
•	Large sealing washer to support additional uplift, loads and wind

Material	 C1022 Hardened
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Finish	 Class 4
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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	1.1	2100	1750	700
G550	1.5	4750	4250	1700
G450	2.0	6300	6000	2400
G450	2.5	8000	7350	2950

14 Gauge Aluminium Seal Hex



Class 4 Screw with an aluminium washer assembly



These Cyclone Multiseal screws have been tested at James Cook University **Cyclone Testing Station for Static and LHL (Low-High-Low) Cyclic simulated wind load strength testing**. For more information on cyclonic testing, refer to our Cyclone Screw Testing Article.

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.

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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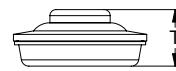
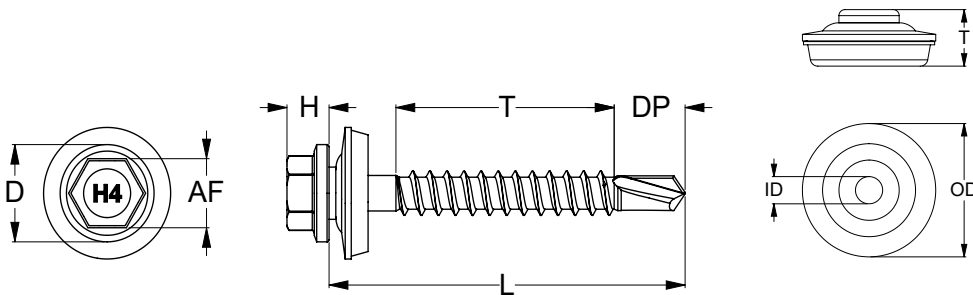




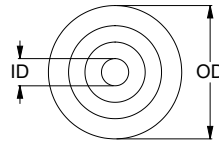
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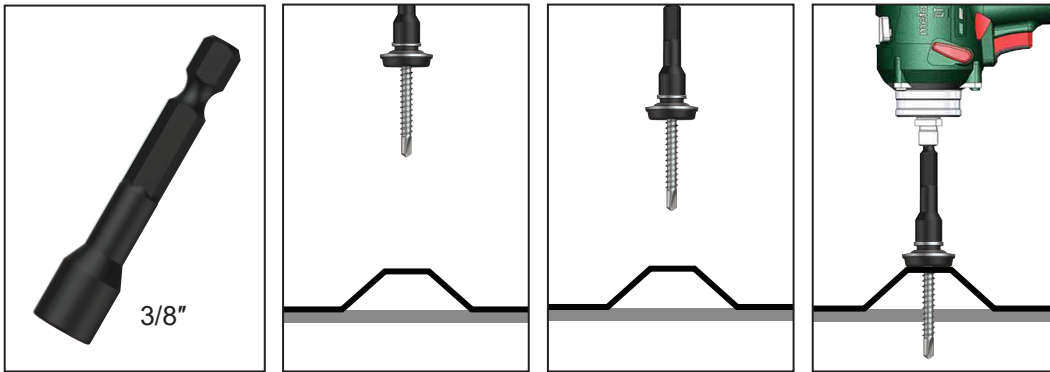
Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	AF (inch)	
T9PM4YM1410053	QA35	14	10	53	33	10	6.5	15	HEX 3/8"	250



Washer Dimensions		
OD (mm)	ID (mm)	T (mm)
25.0	6.3	10.6



Installation



Recommended
HEX 3/8 inch Drive Bit:

Part	QFind	Length (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.

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