



PRODUCT DATA

Bi-Metal SDS Aluminium Seal Hex

Self Drilling Screw (SDS) #12-14

Applications	
<ul style="list-style-type: none"> • Metal to metal fixing • Ideal for corrosive conditions • Valley fixing • Sheds and pergolas • Large sealing washer to support additional uplift wind loads 	

Material	 Bi-Metal 304 Stainless
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Finish	 R1000 Hours Protective Coating
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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	1.2	1400	1150	450
G550	1.5	2900	2500	1000
G450	2.0	4200	3550	1400
G450	2.5	5400	4650	1850

12 Gauge Aluminium Seal Hex



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	5.5	4

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)
10.9	11200	6700	10350	6200

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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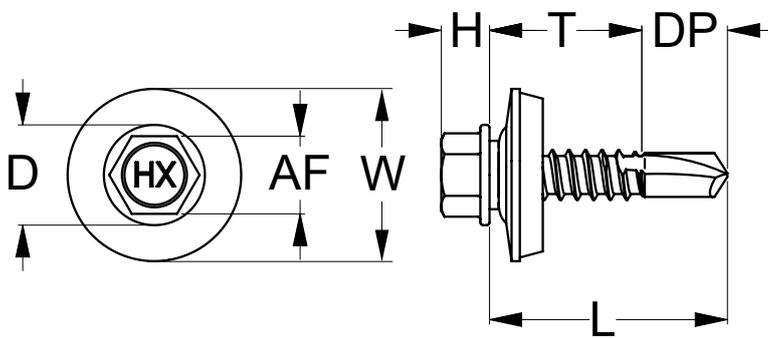




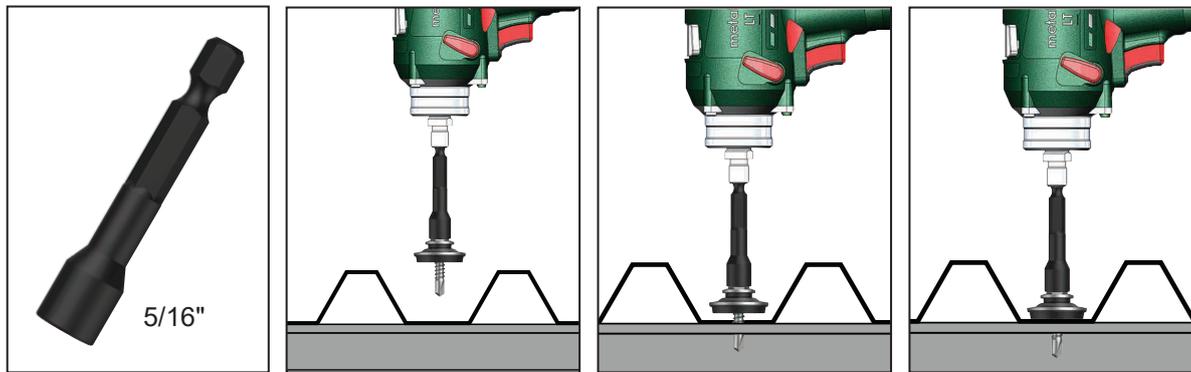
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Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Washer OD	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	W (mm)	AF (inch)	
T4XMXAH1214025	QB06	12	14	25	16.5	8.5	5.1	11	18	HEX 5/16"	500



Installation



Recommended
HEX 5/16 inch Drive Bit:

Part	QFind	Length (mm)
TXDIPNSS31045	BA18	45
TXDIPNSS31065	B090	65

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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