



PRODUCT DATA

Bi-Metal SDS Aluminium Seal Hex

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Self Drilling Screw (SDS) #14-14

Applications	
<ul style="list-style-type: none"> • Metal to metal fixing • Ideal for corrosive conditions • Crest fixing- roofing sheet (valley fixing for short screws) • Sheds and pergolas • Large sealing washer to support additional uplift wind loads 	

Material	 B304 Bi-Metal 304 Stainless
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Finish	 R10 R1000 Hours Protective Coating
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14 Gauge Aluminium Seal Hex



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	1.0	1600	1450	600
G550	1.5	3750	3300	1300
G450	2.0	5100	4600	1850
G450	2.5	7150	6650	2650
HRS	5.0	13950	13150	5250

Bi-Fix™

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)
16.9	14750	8850	13900	8350

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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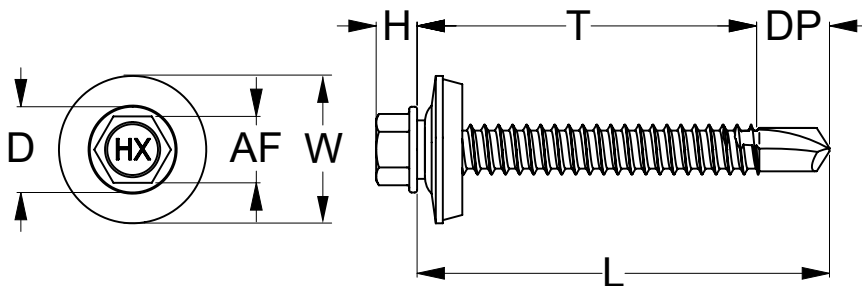


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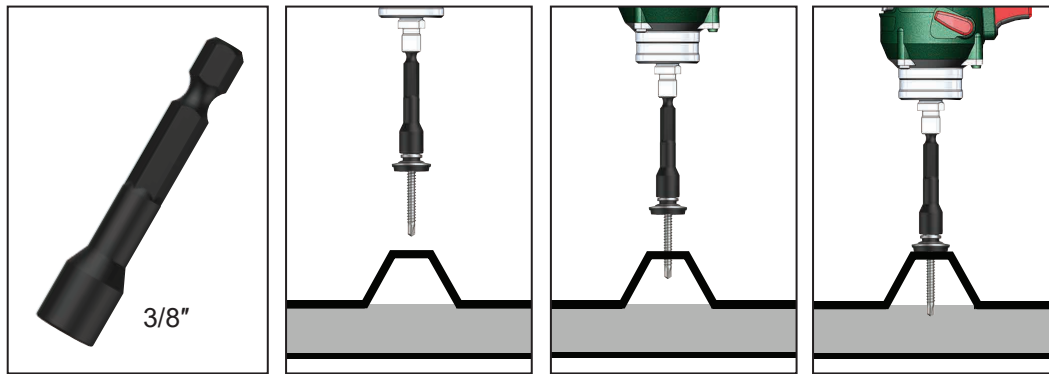
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Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Washer OD	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	W (mm)	AF (inch)	
T4XMXAH1414025	Q914	14	14	25	16.5	8.5	5.1	11	18	HEX 3/8"	500
T4XMXAH1414035	QB07			35	26.5						250
T4XMXAH1414052	QB08			52	43.5						
T4XMXAH1414070	QB09			70	61.5						
T4XMXAH1414095	QB10			95	86.5						



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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