



# PRODUCT DATA

## Bi-Metal SDS Flanged Hex Head

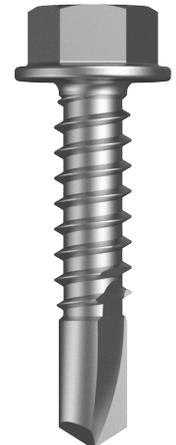
### Self Drilling Screw (SDS) #12-14

Applications	
<ul style="list-style-type: none"> <li>• Metal to metal fixing</li> <li>• Ideal for corrosive conditions</li> <li>• Cladding metal sheets</li> <li>• Signs, fences, and sheds</li> </ul>	

<b>Material</b>	<b>B304</b> Bi-Metal 304 Stainless
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<b>Finish</b>	<b>R10</b> R1000 Hours Protective Coating
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## 12 Gauge Hex Head



Pullout Values				
Plate (Purlin)	Metal Plate Thickness	<sup>1</sup> Mean Load	<sup>2</sup> Characteristic Load	<sup>3</sup> 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
G2	3.0	5650	5250	2100



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	<sup>1</sup> Mean Tensile Strength	<sup>1</sup> Mean Shear Strength	<sup>2</sup> Characteristic Tensile Strength	<sup>2</sup> Characteristic Shear Strength
(Nm)	(N)	(N)	(N)	(N)
10.9	11200	6700	10350	6200

Note: 1000N = 1kN

<sup>1</sup> Mean Load/Strength is the average ultimate strength of samples tested.

<sup>2</sup> Characteristic Load/Strength: 95% of these screws are expected to have a strength greater than the loads shown.

<sup>3</sup> 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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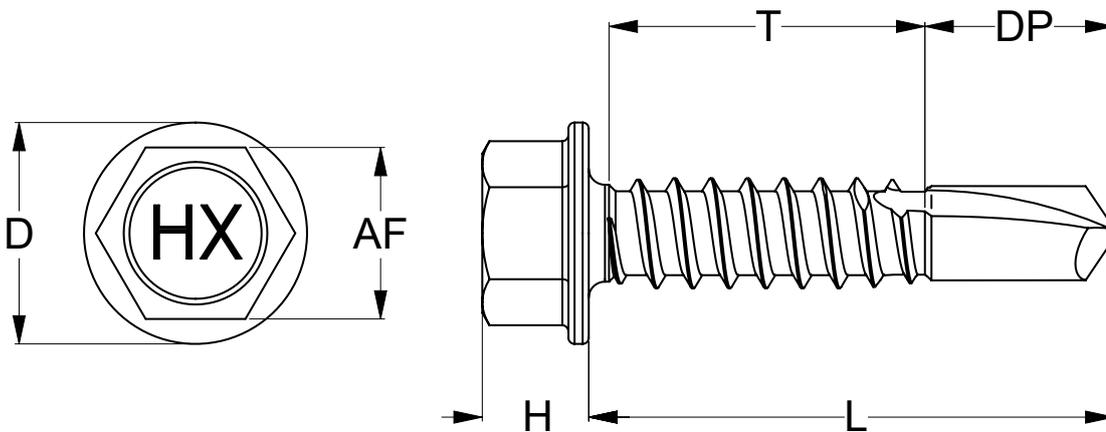




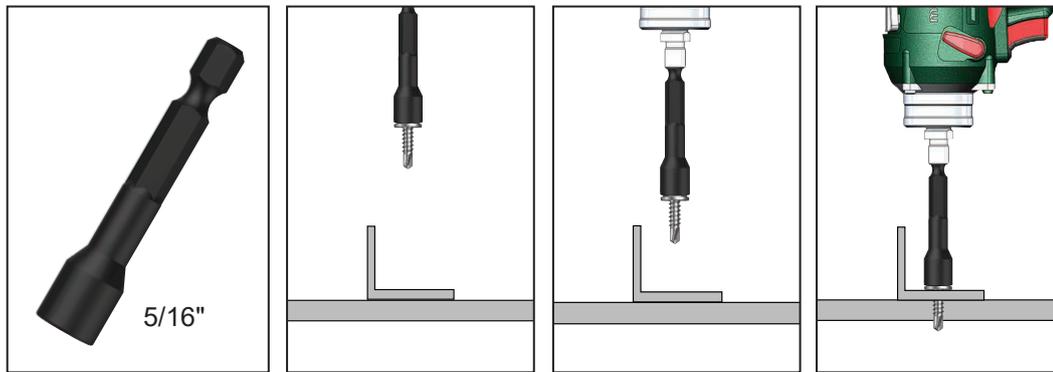
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## Bi-Metal SDS Flanged Hex Head

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)	
T4XMHH1214025	QB02	12	14	25	16.5	8.5	5.0	11	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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