



PRODUCT DATA

Bi-Metal Wing S500 Countersunk

Metal Wings CSK Self Drilling Screw (SDS) #12-24

Applications	
<ul style="list-style-type: none"> • Timber to metal fixing • Fences, chipboard, composite panels and timber floors • 6 ribs under the head enable self embedment into timber • Ideal for corrosive conditions 	

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 (mm)	¹ Mean Load (N)	² Characteristic Load (N)	³ Working Load (N)
G2	3.0	5100	4300	1700
HRS	5.0	11200	9950	4000
HRS	6.0	11750	10950	4400
HRS	8.0	11950	11500	4600

12 Gauge CSK S500 Extended Drill Point



Wings assist in producing a clearance hole in timber. Wings break off once the screw starts to drill through the metal.



Drill Point Test					
Plate (Purlin)	Metal Plate Thickness (mm)	Load (kg)	Drill Speed (RPM)	Drill Time (Max. individual) Seconds	Drill Time (Max. average) Seconds
HRS	8	27	2200	10	7

Mechanical Properties				
Torsional Strength (Nm)	¹ Mean Tensile Strength (N)	¹ Mean Shear Strength (N)	² Characteristic Tensile Strength (N)	² Characteristic Shear Strength (N)
11.3	12500	7500	12300	7400

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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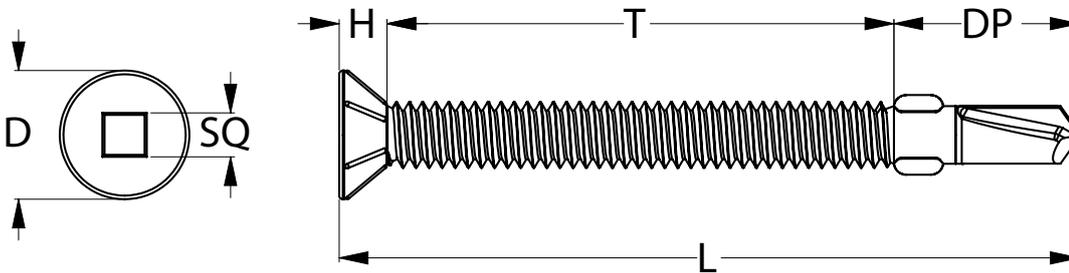




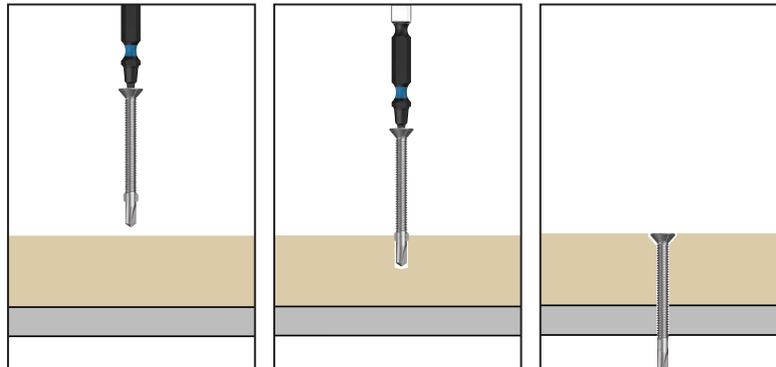
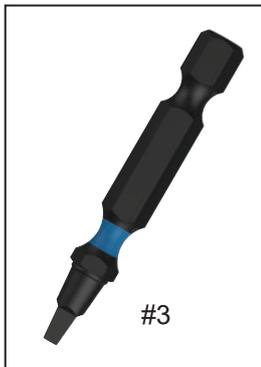
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Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	SQ	
T4XHRQ1224060	QB16	12	24	60	36	20	4	10.5	Square #3	500



Installation



Technical Note:

Wing screws are not recommended for fixing long lengths of timber directly to steel joints. The screw may break in the application due to potential movement between the metal and timber caused by:

- Thermal expansion
- Humidity
- Building movement/settling
- Overdriving during installation

Recommended Square Size #2 Drive Bits:

Part	QFind	Length (mm)
TXDIPSQS30050	BA33	50
TXDIPSQS30100	BA34	100
TXDIPSQS30150	BA35	150

Installation Guide

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