



PRODUCT DATA

Bi-Metal Wings Countersunk

Metal Wings CSK Self Drilling Screw (SDS) #10-16

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	B304 Bi-Metal 304 Stainless
-----------------	------------------------------------

Finish	R10 R1000 Hours Protective Coating
---------------	---

Pullout Values				
Plate (Purlin)	Metal Plate Thickness	¹ Mean Load	² Characteristic Load	³ Working Load
	(mm)	(N)	(N)	(N)
G2	0.7	900	750	300
G2	1.2	1500	1350	550
G550	1.5	3150	2750	1100
G450	2.0	4400	4100	1650
G450	2.5	5950	5550	2200

10 Gauge CSK Wing



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	Load	Drill Speed	Drill Time	Drill Time
	(mm)	(kg)	(RPM)	(Max. individual) Seconds	(Max. average) Seconds
G450	2.0	18	2200	4	3

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)
6.9	8350	5000	8100	4850

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.

Disclaimer: While every reasonable effort has been made to ensure that this document is correct at the time of printing, Hobson Engineering®, its agencies and employees, disclaim any and all liability to any person in respect of anything or the consequences of anything done or omitted to be done in reliance upon the whole or any part of this document.



Bolt Tension | Anti-Vibration | Product Reliability | Traceability

hobson.com.au **QUALITY FASTENERS SINCE 1935**

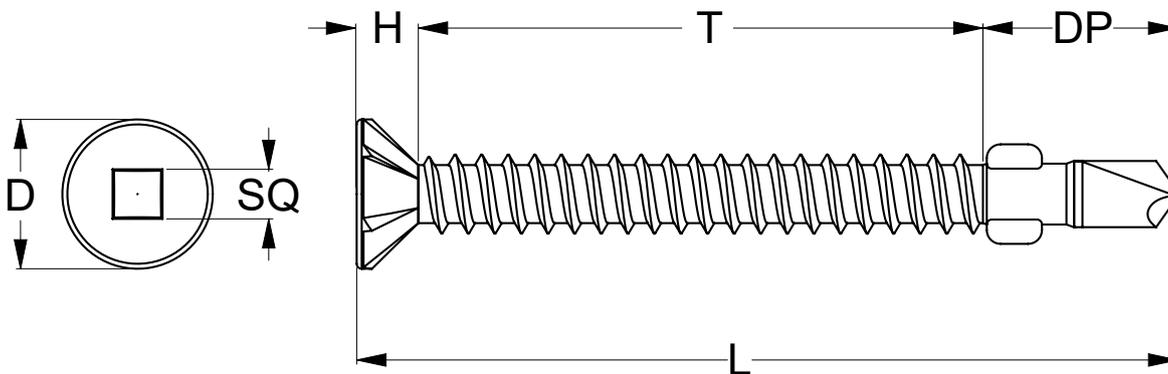




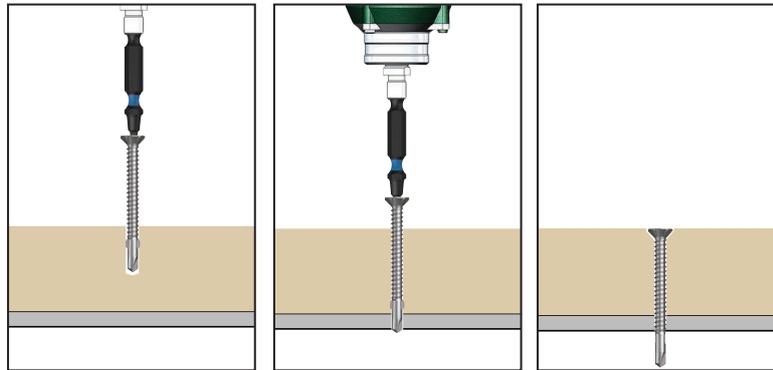
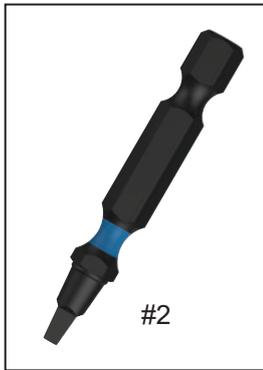
PRODUCT DATA

Bi-Metal Wings Countersunk

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	
T4XGXRQ1016050	Q925	10	16	50	33.5	12.8	4	9.4	Square #2	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 Bit:

Part	QFind	Length (mm)
TXDIPSQS20050	B371	50
TXDIPSQS20100	B375	100
TXDIPSQS20150	B380	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.

Disclaimer: While every reasonable effort has been made to ensure that this document is correct at the time of printing, Hobson Engineering®, its agencies and employees, disclaim any and all liability to any person in respect of anything or the consequences of anything done or omitted to be done in reliance upon the whole or any part of this document.

Bolt Tension | Anti-Vibration | Product Reliability | Traceability

hobson.com.au **QUALITY FASTENERS SINCE 1935**

