




# PRODUCT DATA

## Metal Wings Countersunk

### Metal Wings Countersunk (SDS) #10-16

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

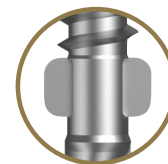
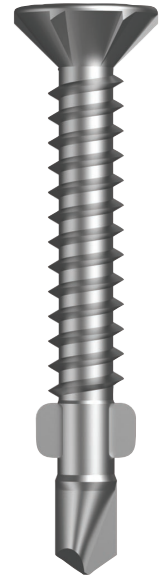
<b>Material</b>	 C1022 Hardened
-----------------	--

<b>Finish</b>	 Class 3
---------------	--

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	0.7	950	900	350
G2	1.0	1850	1600	650
G550	1.5	4000	3600	1450
G450	2.0	5250	4850	1950
G450	2.5	7150	6300	2500
G2	3.0	5950	5500	2200

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

## 10 Gauge



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

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)
6.9	10550	6350	8700	5200

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.

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 all liability in respect to anything or the consequences of anything done or omitted regarding the whole or any part of this document.



Bolt Tension | Anti-Vibration | Product Reliability | Traceability

[hobson.com.au](http://hobson.com.au) **QUALITY FASTENERS SINCE 1935**

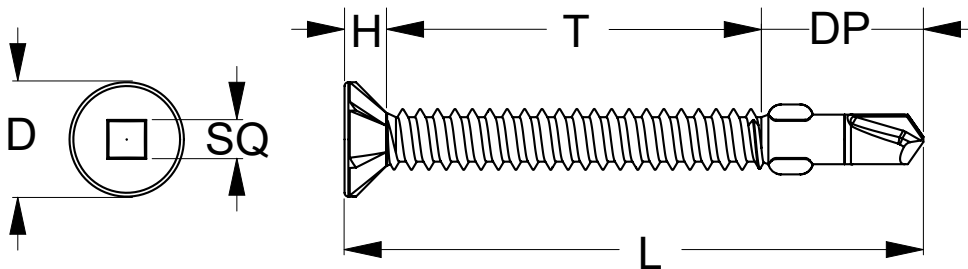




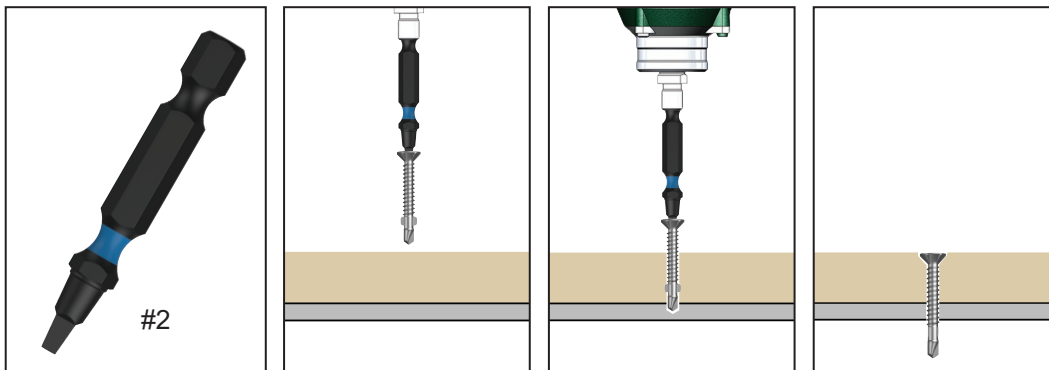
# PRODUCT DATA

## 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	
T9PG3RQ1016035	Q401	10	16	35	20	11	3.7	9	#2	1000
T9PG3RQ1016040	Q402			40	25					
T9PG3RQ1016045	Q404			45	30					
T9PG3RQ1016050	Q405			50	35					
T9PG3RQ1016060	Q407			60	45					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	Size (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 all liability in respect to anything or the consequences of anything done or omitted regarding the whole or any part of this document.

Bolt Tension | Anti-Vibration | Product Reliability | Traceability

[hobson.com.au](http://hobson.com.au) **QUALITY FASTENERS SINCE 1935**



21014DS