





PRODUCT DATA

Metal Wings Countersunk

Metal Wings Countersunk (SDS) #12-14

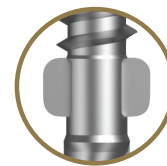
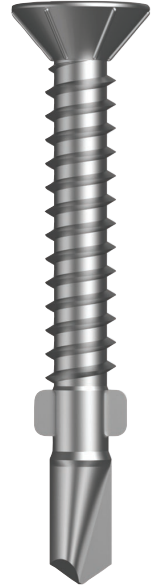
Applications	
<ul style="list-style-type: none"> • Timber to metal fixing • Fences, chipboard, composite panels and timber floors • 6 ribs under the head enable self embedment into timber 	

Material	 C1022 Hardened
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Finish	 Class 3
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Pullout Values				
Plate (Purlin)	Metal Plate Thickness	¹ Mean Load	² Characteristic Load	³ Working Load
	(mm)	(N)	(N)	(N)
G2	1.0	1100	900	350
G550	1.5	2100	1850	750
G450	2.0	4100	3500	1400
G2	3.0	5800	5050	2050
HRS	5.0	13950	11100	4450

12 Gauge



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)
10.9	16200	9700	14550	8750

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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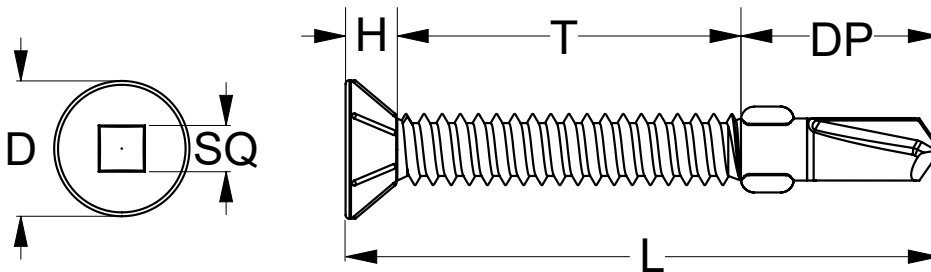




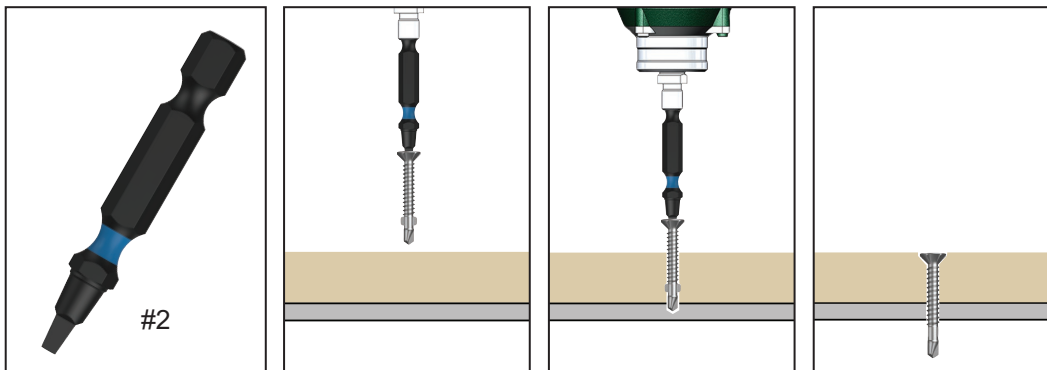
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Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	SQ	
T9PG3RQ1214045	QA27	12	14	45	25	15	4	10.5	#3	1000



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 #3 Drive Bit:

- TXDIPSQS30050 - 50mm
- TXDIPSQS30100 - 100mm
- TXDIPSQS30150 - 150mm

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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