



PRODUCT DATA

S500 CSK Rib Head with Wings

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Countersunk Rib Head (SDS) #14-20

Applications

- Timber to thick metal fixing
- Fences, chipboard, composite panels and internal timber floors
- 6 ribs under the head enable self embedment into timber

Material



C1022 Hardened

Finish

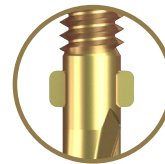
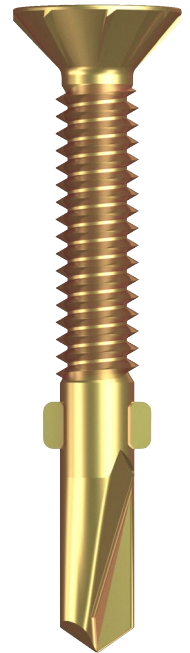


Zinc Yellow Passivate

Pullout Values

Plate (Purlin)	Metal Plate Thickness	¹ Mean Load	² Characteristic Load	³ Working Load
	(mm)	(N)	(N)	(N)
G2	3	6150	5500	2200
HRS	5	8650	6750	2700
HRS	6	14100	11950	4800
HRS	8	15550	12350	4950

14 Gauge with 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	Load	Drill Speed	Drill Time	Drill Time
	(mm)	(kg)	(RPM)	(Max. individual Seconds)	(Max. average Seconds)
G450	1.5	15	2200	2	2

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)
17.6	23750	13850	21250	12800

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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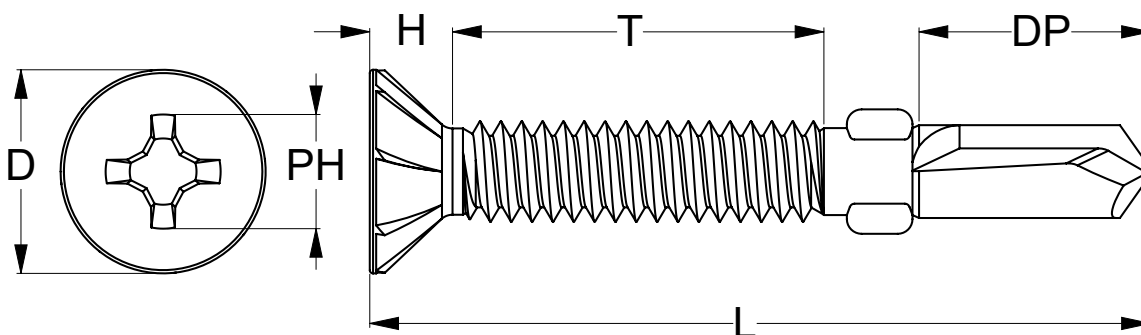


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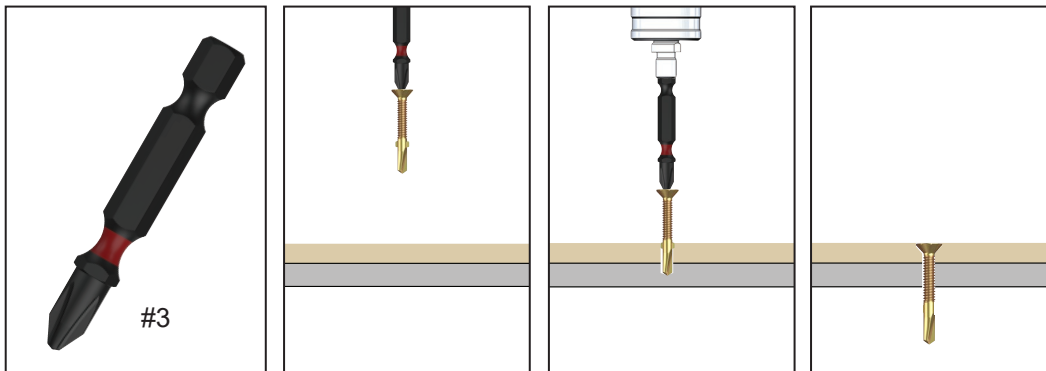
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Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	Phillips (PH)	
T9PHYRP1420050	Q514	14	20	50	25	15	4.5	12.5	#3	500



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 Phillips Size #3:

Part	QFind	Size
		(mm)
TXDIPPHS30050	B321	50
TXDIPPHS30100	BA28	100
TXDIPPHS30150	BA29	150

Installation Guide

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