T9PG3SI1420

PRODUCT DATA

Metal Wings Countersunk

Metal Wings Countersunk (SDS) #14-20

Applications

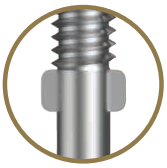
- Timber to metal fixing
- Fences, chipboard, composite panels and timber floors
- 6 ribs under the head enable self embedment into timber

Material	1022 C1022 Hardened
Finish	CL3 Class 3

Pullout Values

Plate (Purlin)	Metal Plate Thickness	[1]Mean Load	[2]Characteristic Load	[3]Working Load
	(mm)	(N)	(N)	(N)
G2	0.7	850	750	300
G2	1.2	1750	1650	650
G550	1.5	3450	2800	1150
G450	2.0	4700	4100	1650
G2	3.0	6500	5750	2300
HRS	5.0	15800	13200	5300

14 Gauge with CSK Wings



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	6	5

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)
16.9	19750	11850	19150	11500

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.

DRiLLX®

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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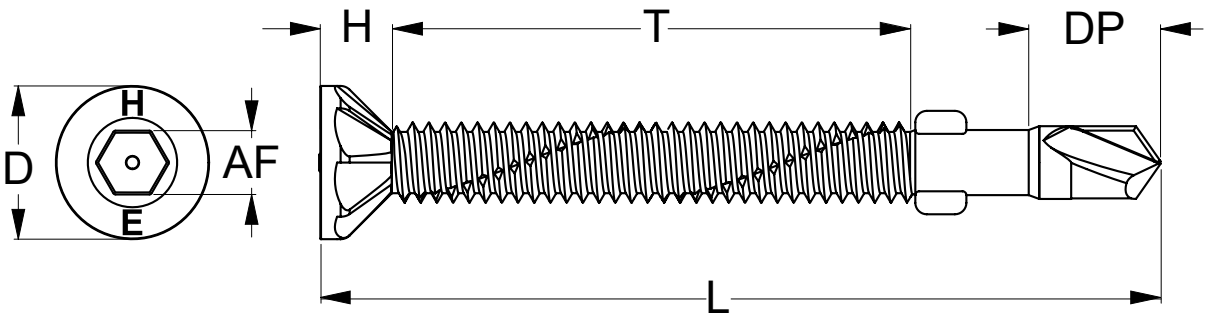
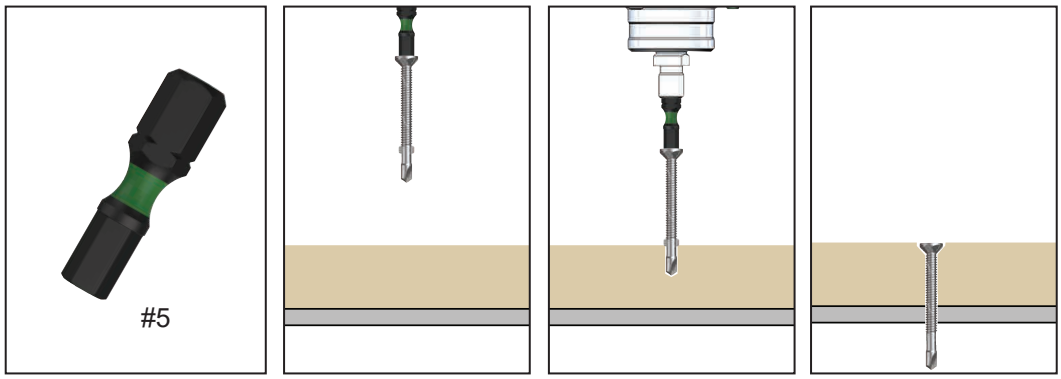
Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	AF (mm)	
T9PG3SI1420065	**QA19**	14	20	65	42	8.5	6	12	IHEX #5	500



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
IHEX Size #5 mm Drive Bit:

Part	QFind	Size
		(mm)
TXDIIHXS50025	B346	25

Installation Guide

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