PRODUCT DATA

Bi-Metal Wings Countersunk

Metal Wings CSK Self Drilling Screw (SDS) #08-18

Applications

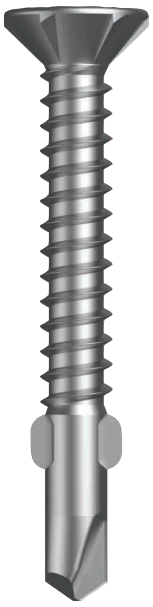
- Timber to metal fixing
- Fences, chipboard, composite panels and timber floors
- 6 ribs under the head enable self embedment into timber
- Ideal for corrosive conditions

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	0.5	800	700	300
G2	0.7	850	800	300
G2	1.2	1450	1250	500
G550	1.5	3000	2750	1100
G450	2.0	3900	3550	1400
G450	2.5	5150	4650	1850

8 Gauge CSK Wing



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

BiHFiX™

Drill Point Test

Plate (Purlin)	Metal Plate Thickness	Load	Drill Speed	Drill Time	Drill Time
	(mm)	(kg)	(RPM)	(Max. individual) Seconds	(Max. average) Seconds
G550	1.5	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)
4.7	5150	3100	4600	2750

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.

PRODUCT DATA

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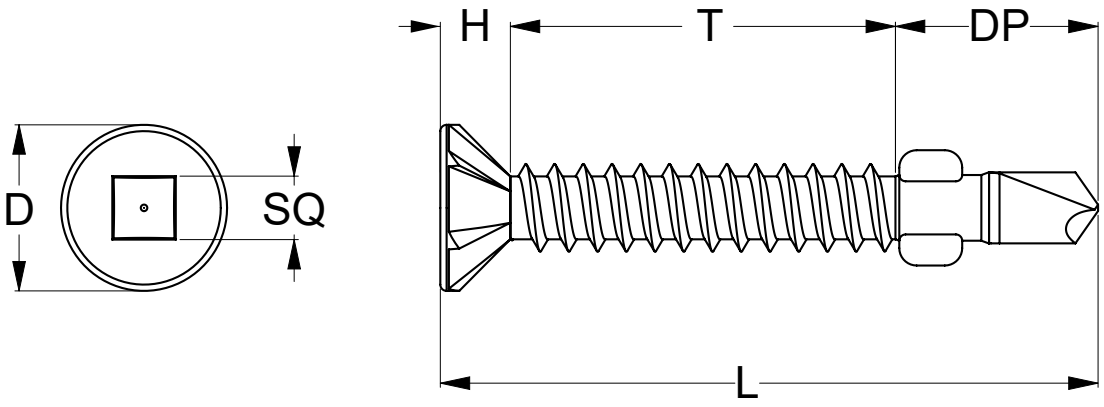
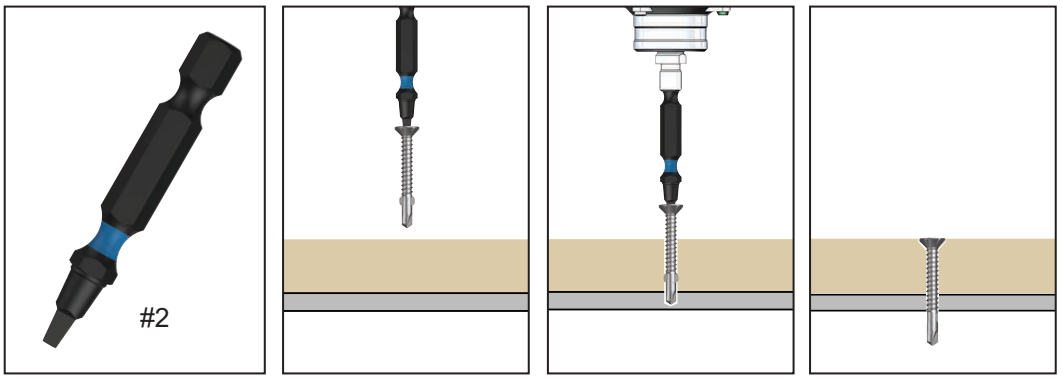
Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	DP (mm)	H (mm)	D (mm)	SQ	
T4XGXRQ0818032	**QB17**	8	18	32	16.8	11.9	3.3	8	Square #2	500



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.