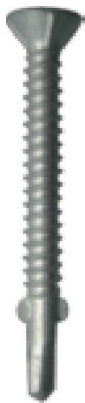




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PRODUCT DATASHEET

WING DRILL TEK SCREW



2008 = 06DW-01/19

Product Details

Designed for: *Fixing timber or composites to steel*
 Head style: *Countersunk or countersunk with nibs*
 Drive bit: *Phillips 3*
 Material grade: *AISI C1022*
 Coating: *500hr Evoshield®*

Wing drill Tek 3 range – for light steel

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Recommended drill speed
TSTF4.2-38-3	4.2x38mm	Tek 3	22mm	1.2 – 4.0mm	1500-2500 RPM
TSTF4.8-38-3	4/8x38mm	Tek 3	22mm	1.2 – 4.0mm	1500-2500 RPM
TSTF4.8-45-3	4.8x45mm	Tek 3	27mm	1.2 – 4.0mm	1500-2500 RPM
TSTF5.5-50-3	5.5x50mm	Tek 3	30mm	1.2 – 4.0mm	1500-2500 RPM
TSTF5.5-62-3	5.5x62mm	Tek 3	40mm	1.2 – 4.0mm	1500-2500 RPM
TSTF5.5-80-3	5.5x80mm	Tek 3	60mm	1.2 – 4.0mm	1500-2500 RPM
TSTF5.5-100-3	5.5x100mm	Tek 3	80mm	1.2 – 4.0mm	1500-2500 RPM
TSTF5.5-120-3	5.5x120mm	Tek 3	100mm	1.2 – 4.0mm	1500-2500 RPM
TSTF5.5-150-3	5.5x150mm	Tek 3	130mm	1.2 – 4.0mm	1500-2500 RPM
TSTF5.5-180-3	5.5x180mm	Tek 3	155mm	1.2 – 4.0mm	1500-2500 RPM
TSTF5.5-235-3	5.5x235mm	Tek 3	210mm	1.2 – 4.0mm	1500-2500 RPM

Wing drill tek 4 range – for medium gauge steel

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Recommended drill speed
TSTF6.3-60-4	6.3 x 60.0mm	Tek 4	FULL	2.5 – 6.0mm	1500-2500RPM
TSTF6.3-85-4	6.3 x 85.0mm	Tek 4	FULL	2.5 – 6.0mm	1500-2500RPM

Wing drill Tek 5 range – for heavy steel

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Recommended drill speed
TSTF5.5-42-5	5.5x42mm	Tek 5	13mm	4.0-12.5mm	1500-2500 RPM
TSTF5.5-65-5	5.5x65mm	Tek 5	28mm	4.0-12.5mm	1500-2500 RPM
TSTF5.5-85-5	5.5x85mm	Tek 5	50mm	4.0-12.5mm	1500-2500 RPM
TSTF5.5-100-5	5.5x100mm	Tek 5	65mm	4.0-12.5mm	1500-2500 RPM
TSTF5.5-110-5	5.5 x 110mm	Tek 5	75mm	4.0-12.5mm	1500-2500 RPM
TSTF5.5-135-5	5.5x135mm	Tek 5	100mm	4.0-12.5mm	1500-2500 RPM
TSTF5.5-150-5	5.5x150mm	Tek 5	115mm	4.0-12.5mm	1500-2500 RPM
TSTF5.5-180-5	5.5x180mm	Tek 5	145mm	4.0-12.5mm	1500-2500 RPM

NOTE: The results expressed in the datasheet are taken as mean loads from a range of empirical tests and are ultimate unfactored loads. Each specifier or end user should make his/her own decision on what safety factors to use relevant to their design application (such as BS 5950, EN 1991, etc).

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Technical Data

Tek 3 range – Unfactored pull out values

Diameter	Drill point	Steel Thickness					
		1.2mm	1.6mm	2.0mm	2.5mm	3.0mm	4.0mm
4.2mm	Tek 3	1.0kN	1.2kN	1.9kN	3.5kN	3.9kN	4.8kN
4.8mm	Tek 3	1.1kN	1.5kN	2.5kN	3.6kN	3.9kN	4.4kN
5.5mm	Tek 3	1.2kN	2.3kN	3.0kN	4.0kN	4.6kN	5.7kN

Tek 4 range – unfactored pull out values

Diameter	Drill point	Steel Thickness				
		2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
6.3mm	Tek 4	4.1kN	4.7kN	5.9kN	6.4kN	7.2kN

Tek 5 range – Unfactored pull out values

Diameter	Drill point	Steel Thickness					
		4.0mm	5.0mm	6.0mm	8.0mm	10.0mm	12.5mm
5.5mm	Tek 5	4.2kN	9.8kN	10.4kN	11.7kN	12.5kN	13.8kN

Hardness Rating (Vickers scale)

Diameter	Surface Hardness	Core Hardness
4.2mm	582.6HV	477.8HV
4.8mm	570.0HV	474.1HV
5.5mm	592.1HV	478.8HV
6.3mm	587.4 HV0.3	468.9 HV0.3

Ultimate Mechanical Performance

Diameter	Tensile Strength	Shear Strength
4.2mm	10.4kN	5.2kN
4.8mm	12.4kN	6.4kN
5.5mm	20.1kN	10.3kN
6.3mm	22.7kN	15.2kN

Pullover Performance

Diameter	In 50mm timber
4.2mm	1.6kN
4.8mm	2.2kN
5.5mm	2.7kN
6.3mm	3.4kN