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# PRODUCT DATASHEET

## SUPERTEK 7

### WING DRILL TEK SCREW

#### Product Details

Designed for: *When timber is being fastened to thicker steel section or where extremely hard steels defeat normal tek screws*

Head style: *Double countersunk*

Drive bit: *Torx 30*

Drill point: *Tek 7 spiral point*

Thread form: *Twin, 24 threads per inch fine thread 'V' fluted*

Coating: *1000hr Evoshield®*

Shank material: *Carbon steel*

Material grade: *AISI C1022*

Recommended drill speed: *1500-2500 RPM*

Steel thickness: *4.0 – 18.0mm*



#### SuperTek 7 Range – For Heavy Steel

Product Code	Size	Effective thread length	Drilling capacity
TSTF5.5-73-7	5.5x73mm	46mm (FULL THREAD)	4.0-18.0mm
TSTF5.5-93-7	5.5x93mm	63mm (50mm THREAD)	4.0-18.0mm
TSTF5.5-118-7	5.5x118mm	88mm (50mm THREAD)	4.0-18.0mm
TSTF5.5-143-7	5.5x143mm	115mm (65mm THREAD)	4.0-18.0mm

#### Technical Data

Hardness Rating (Vickers scale)			Ultimate Mechanical Performance		
Diameter	Surface Hardness	Core Hardness	Diameter	Tensile Strength	Shear Strength
5.5mm	543.4 HV0.3	408.4 HV0.3	5.5mm	10.3kN	6.9kN

Tek 7 range – Unfactored pull out values						
Diameter	Drill point	Steel Thickness				
		4.0mm	6.0mm	8.0mm	10.0mm	15.0mm
5.5mm	Tek 7	13.9kN	13.7kN	12.9kN	14.1kN	14.3kN

**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).

Errors and Omissions Excepted.



# ABOUT OUR TESTING



All test results were derived from empirical testing performed by ETAS (Evolution Testing & Analytical Services), a UKAS (United Kingdom Accreditation Service) accredited testing laboratory (Accreditation No. 7485). The following tests were performed to the following standards.



**7485**

## Testing Procedures

Test/ Parameter	Standard/ Method/ Procedure
Ultimate Tensile	<b>ISO 6892-1: 2009</b> <i>"Metallic materials – tensile testing – Part 1: Method of test at room temperature".</i>
Ultimate Shear	<b>MIL-STD-1312-13</b> <i>"Military Standard: Fastener test method (Method 13) Double shear test".</i>
Pull Out (Withdrawal Force)	<b>EN 14566: 2009</b> <i>"Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods".</i>
Pull Over	<b>EN 14592: 2008</b> <i>"Timber structures. Dowel type fasteners. Requirements".</i>
Hardness	<b>ISO 650 7-1: 2005</b> <i>"Metallic materials – Vickers hardness test – Part 1: Test method".</i>
Corrosion Resistance	<b>EN ISO 9227: 2012</b> <i>"Corrosion tests in artificial atmospheres. Salt spray tests".</i>
Drilling Time Test	<b>EN 14566: 2009</b> <i>"Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods".</i>

### Laboratory Contact Details

### Evolution Testing & Analytical Services

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