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# PRODUCT DATASHEET

## SUPERTEK 6

### Product Details

Designed for: *Fixing steel to steel*  
 Head style: *Hexagonal*  
 Drive: *5/16th hexagonal*  
 Thread form: *24tpi fine thread, 'V' fluted*  
 Drill point: *Tek 6 spiral point*  
 Shank material: *Carbon steel*  
 Material grade: *SAE C1022*  
 Coating: *1000Hr Evoshield®*  
 Washer: *16mm  $\varnothing$  bonded EPDM*  
 Recommended drill speed: *1500 - 2500 RPM*  
 Steel thickness: *4.0mm – 16.0mm*



### SuperTek 6 range – for heavy steel

Product Code	Size	Box Quantity	Carton Quantity
TSBW5.5-38-6	5.5 x 38.0mm	200	2,800

### Technical Data

Hardness Rating (Vickers scale)			Ultimate Mechanical Performance		
Diameter	Surface Hardness	Core Hardness	Diameter	Tensile Strength	Shear Strength
5.5mm	684.9 HV0.3	483.8 HV0.3	5.5mm	12.8kN	8.5kN

Tek 6 range – Unfactored pull out values						
Diameter	Drill point	Steel Thickness				
		4.0mm	6.0mm	8.0mm	10.0mm	15.0mm
5.5mm	Tek 6	3.9kN	6.8kN	10.2kN	12.4kN	16.5kN

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

### Laboratory Contact Details

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