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## PRODUCT DATASHEET WASHERED SUPERTEK 7 Product Details

Designed for: Head style: Drive bit: Drill point: Thread form: Coating: Shank material: Material grade: Recommended drill speed: Steel thickness:

Fixing steel to steel Hexagonal 5/16" hexagonal Tek 7 spiral point Single, 24 threads per inch fine thread 'V' fluted 1000hr Evoshield® Carbon steel AISI C1022 1500-2500 RPM 3.5 – 18.5mm



### SuperTek 7 Range – For Heavy Steel

Product Code	Size	Washer	Effective thread length	Drilling capacity	
TSBW5.5-50-7	5.5x50mm	16mmø bonded EPDM	FULLY THREADED	3.5-18.5mm	

#### **Technical Data**

Hardness	Rating (Vick	Rating (Vickers scale)			Ultimate Mechanical Performance			
Diameter	Surface Hardness	Core Hardness		Diameter	Tensile Strength	Shear Strength		
5.5mm	372.0HV	580.0HV		5.5mm	13.9kN	10.3kN		

Tek 7 range – Unfactored pull out values							
Diameter	Drill point	Steel Thickness					
		4.0mm	6.0mm	8.0mm	10.0mm	15.0mm	18.0mm
5.5mm	Tek 7	4.1kN	6.9kN	11.3kN	13.5kN	16.6kN	19.7kN

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.

#### **Testing Procedures**



7485

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)</i> <i>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> "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> <i>"Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods".</i>
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