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PRODUCT DATASHEET

TEK 5 SCREW

WITH BONDED EPDM WASHER

Product Details

Designed for: *Fixing cladding and roofing applications to hot and cold rolled purlins/rails*

Head style: *Hexagonal*

Drive bit: *5/16" hexagonal*

Washer: *16mm ø bonded EPDM*

Thread form: *Single, Fine thread (Tek 5)*

Shank material: *Carbon steel*

Material grade: *AISI C1022*

Coating: *500hr Evoshield®*



Tek 5 range – for heavy steel

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Recommended drill speed
TSBW5.5-38-5	5.5x38mm	Tek 5	FULL	4.0 – 12.5mm	1500-2500 RPM
TSBW5.5-50-5	5.5x50mm	Tek 5	FULL	4.0 – 12.5mm	1500-2500 RPM
TSBW5.5-60-5	5.5x60mm	Tek 5	FULL	4.0 – 12.5mm	1500-2500 RPM
TSBW5.5-70-5	5.5x70mm	Tek 5	FULL	4.0 – 12.5mm	1500-2500 RPM
TSBW5.5-85-5	5.5x85mm	Tek 5	FULL	4.0 – 12.5mm	1500-2500 RPM
TSBW5.5-100-5	5.5x100mm	Tek 5	FULL	4.0 – 12.5mm	1500-2500 RPM

Technical Data

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	5.2kN	12.1kN	16.0kN	16.8kN	17.2kN	18.2kN

Hardness Rating (Vickers scale)			Unfactored Mechanical Performance			Pullover Performance		
Diameter	Surface Hardness	Core Hardness	Diameter	Tensile Strength	Shear Strength	Diameter	In 0.6mm steel	In 1.2mm steel
5.5mm	561.0HV	455.0HV	5.5mm	18.9kN	10.3kN	5.5mm	4.2kN	8.1kN

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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ABOUT OUR TESTING



7485

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

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

Laboratory Contact Details

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