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PRODUCT DATASHEET TEK 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/19mm ø bonded EPDM

Thread form: Single, coarse thread (Tek 3)/fine thread (Tek 5)

Shank material: Carbon steel
Material grade: AISI C1022

Coating: 500hr Evoshield®





Tek 3 range – for light steel

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Recommended drill speed
TSBW5.5-26-3	5.5x26mm	Tek 3	10mm	1.2 – 3.5mm	1500-2500 RPM
TSBW5.5-32-3	5.5x32mm	Tek 3	21mm	1.2 – 3.5mm	1500-2500 RPM
TSBW5.5-38-3	5.5x38mm	Tek 3	27mm	1.2 – 3.5mm	1500-2500 RPM
TSBW5.5-50-3	5.5x50mm	Tek 3	38mm	1.2 – 3.5mm	1500-2500 RPM
TSBW5.5-60-3	5.5x60mm	Tek 3	49mm	1.2 – 3.5mm	1500-2500 RPM
TSBW5.5-75-3	5.5x75mm	Tek 3	64mm	1.2 – 3.5mm	1500-2500 RPM
TSBW5.5-100-3	5.5x100mm	Tek 3	80mm	1.2 – 3.5mm	1500-2500 RPM
TSBW19-5.5-26- 3	5.5x26mm	Tek 3	15mm	1.2 – 3.5mm	1500-2500 RPM

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	15mm	4.0 – 12.5mm	1500-2500 RPM
TSBW5.5-50-5	5.5x50mm	Tek 5	27mm	4.0 – 12.5mm	1500-2500 RPM
TSBW5.5-60-5	5.5x60mm	Tek 5	37mm	4.0 – 12.5mm	1500-2500 RPM
TSBW5.5-70-5	5.5x70mm	Tek 5	47mm	4.0 – 12.5mm	1500-2500 RPM
TSBW5.5-85-5	5.5x85mm	Tek 5	62mm	4.0 – 12.5mm	1500-2500 RPM
TSBW5.5-100-5	5.5x100mm	Tek 5	80mm	4.0 – 12.5mm	1500-2500 RPM

Technical Data

Tek 3 range – Unfactored pull out values							
Diameter	Drill point	Steel Thickness					
Diameter	Drill politi	1.2mm	1.6mm	2.0mm	2.5mm	3.0mm	4.0mm
5.5mm	Tek 3	1.8kN	1.8kN	2.1kN	4.3kN	4.5kN	6.1kN

Tek 5 range – Unfactored pull out values							
Diameter	Drill point	Steel Thickness					
Diameter	Drill polit	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)				
Diameter	Surface Hardness	Core Hardness		
5.5mm	561.0HV	455.0HV		

Unfactored Mechanical Performance				
Diameter	Tensile Strength	Shear Strength		
5.5mm	18.9kN	10.3kN		

Pullover Performance			
Diameter	In 0.6mm steel	In 1.2mm steel	
5.5mm	4.2kN	8.1kN	

ABOUT ESTING

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.







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

Laboratory Contact Details

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