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PRODUCT DATASHEET BI-METAL STITCHING TEK SCREW

Product Details

Designed for: Stitching cladding panels

Head style: Hexagonal
Drive bit: 5/16" hexagonal

Thread form: Twin

Shank material: A2 Stainless steel

Material grade: AISI A304

Coating: 500hr Evoshield® Recommended drill speed: 1500 – 2500 RPM

Bi-metal stitching tek screw range

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Washer	Steel thickness
BMTSFHR6.3-22.2	6.3x22mm	Tek 2	15.0mm	0.5 – 2.5mm	16mmø bonded EPDM	0.5 – 2.5mm
BMTSFHR6.3-35-2	6.3x35mm	Tek 2	30.0mm	0.5 – 2.5mm	16mmø bonded EPDM	0.5 – 2.5mm
BMTSFHR6.3-50-2	6.3x50mm	Tek 2	45.0mm	0.5 – 2.5mm	16mmø bonded EPDM	0.5 – 2.5mm
A2TSHF6.3-38-2	6.3x38mm	Tek 2	35.0mm	0.5 – 2.5mm	N/A	0.5 – 2.5mm
BMTSHF6.3-38-2	6.3x38mm	Tek 2	35.0mm	0.5 – 2.5mm	16mmø bonded EPDM	0.5 – 2.5mm

Technical Data

Hardness Rating (Vickers scale)			
Diameter	Surface Hardness	Core Hardness	
6.3mm	575.4 HV0.3	460.0 HV0.3	

Unfactored Mechanical Performance		
Diameter	Tensile Strength	Shear Strength
6.3mm	8.7kN	6.2kN

Bi-metal stitching screw – unfactored pull out values				
Diameter	Drill point	Steel thickness		
		1.2mm	1.5mm	2.5mm
6.3mm	Tek 2	1.8kN	3.2kN	5.2kN

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	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

Evolution Testing & Analytical Services

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