



Evolution Fasteners (UK) Ltd  
 Units 2A & 2B Clyde Gateway Trade Park  
 Dalmarnock Road, Rutherglen, Glasgow G73 1AN  
 Tel: +44 (0)141 647 7100 / Fax: +44 (0)141 647 5100  
 Email: technical@evolutionfasteners.co.uk



www.evolutionfasteners.co.uk



# PRODUCT DATASHEET

## BI-METAL STITCHING TEK SCREW

### Product Details

Designed for:	<i>Stitching cladding panels</i>
Head style:	<i>Hexagonal</i>
Drive bit:	<i>5/16" hexagonal</i>
Thread form:	<i>Twin</i>
Shank material:	<i>Stainless steel</i>
Material grade:	<i>AISI A304</i>
Coating:	<i>500hr Evoshield®</i>
Recommended drill speed:	<i>1500 – 2500 RPM</i>

### 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	0.8 – 1.5mm	16mmø bonded EPDM	0.5 – 1.5mm

### 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

**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.

Copyright © 2018 Evolution Fasteners (UK) Ltd. All rights reserved.



# 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

**Evolution Testing & Analytical Services**  
 Units 2A & 2B Clyde Gateway Trade Park  
 Dalmarnock Road  
 Rutherglen  
 South Lanarkshire  
 G73 1AN  
 T: (0141) 643 4125  
 F: (0141) 647 5100  
 E: sales@etasuk.com