



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

## TEK SCREW COARSE THREAD HEX HEAD



### Product Details

Designed for: *Fixing cladding/roofing applications to hot/cold rolled purlins/rails. Fastening liner panels and general components to steel.*

Head style: *Hexagonal*

Drive bit: *5/16" hexagonal*

Thread form: *Single, coarse thread*

Shank material: *Carbon steel*

Material grade: *AISI C1022*

Coating: *500hr Evoshield®*



### Tek 5 Coarse Thread range – for light steel

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Recommended drill speed
TSWCT5.5-38-5	5.5x38mm	Tek 5	18mm	1.2 - 4.0mm	1500-2500 RPM

### Technical Data

Coarse Thread Tek 5 range – Unfactored pull out values					
Diameter	Drill point	Steel Thickness			
		2.0mm	2.5mm	3.5mm	
5.5mm	Tek 5	2.4kN	2.6kN	2.7kN	

Hardness Rating (Vickers scale)			Ultimate Mechanical Performance		
Diameter	Surface Hardness	Core Hardness	Diameter	Tensile Strength	Shear Strength
5.5mm	588.8HV	452.1HV	5.5mm	16.0N	11.5N

**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. This document shall not be reproduced except in full, without written approval of Evolution Fasteners (UK) Ltd. Data in this document relates only to the specific items described therein. This document is provided and published without prejudice, without recourse, non-assumptist, errors and omissions excepted, no assured value, no liability and all rights reserved.

Copyright © 2019 Evolution Fasteners (UK) Ltd. All rights reserved.



# 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	<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