

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 5 SCREW 6.3mm 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, 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
TSHW6.3-38-5	6.3x38mm	Tek 5	FULL	4.0 – 12.5mm	1500-2500 RPM
TSHW6.3-50-5	6.3x50mm	Tek 5	FULL	4.0 – 12.5mm	1500-2500 RPM

Technical Data

Tek 5 range – Unfactored pull out values							
Diameter Drill point	Steel Thickness						
	Driii poiiit	4.0mm	5.0mm	6.0mm	8.0mm	10.0mm	12.5mm
6.3mm	Tek 5	6.5kN	7.8kN	10.0kN	11.5kN	12.0kN	13.5kN

Hardness Rating (Vickers scale)			
Diameter	Surface Hardness	Core Hardness	
6.3mm	373.0HV	600.0HV	

Ultimate Mechanical Performance			
Diameter	Tensile Strength	Shear Strength	
6.3mm	18.7kN	12.0kN	

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	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
Units 2A & 2B Clyde Gateway Trade Park
Dalmarnock Road

Rutherglen

South Lanarkshire T: (0141) 643 4125 G73 1AN F: (0141) 647 5100