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PRODUCT DATASHEET
TEK 3 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, Coarse thread (Tek 3)*
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
TSHW6.3-25-3	6.3x25mm	Tek 3	FULL	1.2 – 4.0mm	1500-2500 RPM
TSHW6.3-38-3	6.3x38mm	Tek 3	FULL	1.2 – 4.0mm	1500-2500 RPM
TSHW6.3-50-3	6.3x50mm	Tek 3	FULL	1.2 – 4.0mm	1500-2500 RPM

Technical Data

Tek 3 range – Unfactored pull out values							
Diameter	Drill point	Steel Thickness					
		1.2mm	1.6mm	2.0mm	2.5mm	3.0mm	4.0mm
6.3mm	Tek 3	1.7kN	1.9kN	2.4kN	4.6kN	6.5kN	7.6kN

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

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.

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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

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".*

UKAS TESTING

7485

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