



PRODUCT DATASHEET

A4 BI-METAL TEK SCREW

Product Details

Designed for: *Fastening in aluminium sheeting and panels*
 Head style: *Hexagonal*
 Drive bit: *5/16" hexagonal*
 Thread form: *Twin, coarse thread (Tek 3)/fine thread (Tek 5)*
 Material grade: *A4 stainless*
 Coating: *Electroplated zinc*
 Recommended drill speed: *1500 – 2500 RPM*

Tek 3 range – for light steel

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Washer	Steel thickness
A4BMHH5.5-25-3	5.5 x 25mm	Tek 3	14.0mm	1.2 - 3.5mm	N/A	1.2 - 3.5mm
A4BMHH5.5-32-3	5.5 x 32mm	Tek 3	21.0mm	1.2 - 3.5mm	N/A	1.2 - 3.5mm
A4BMHH5.5-38-3	5.5 x 38mm	Tek 3	27.0mm	1.2 – 3.5mm	N/A	1.2 – 3.5mm
A4BMHH5.5-50-3	5.5 x 50mm	Tek 3	38.0mm	1.2 – 3.5mm	N/A	1.2 – 3.5mm

Technical Data

Hardness Rating (Vickers scale)		
Diameter	Surface Hardness	Core Hardness
5.5mm	446.4HV0.3	342.9HV0.3

Ultimate Mechanical Performance		
Diameter	Tensile Strength	Shear Strength
5.5mm	11.4kN	8.6kN

Pullover Performance		
Diameter	In 0.6mm steel	In 1.2mm steel
5.5mm	3.7kN	8.2kN

Tek 3 range – Unfactored pull out values							
Diameter	Drill Point	Steel Thickness					
		1.2mm	1.6mm	2.0mm	2.5mm	3.0mm	4.0mm
5.5mm	Tek 3	1.6kN	2.1kN	3.1kN	4.0kN	4.5kN	5.3kN

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).



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	ISO 6892-1: 2009 <i>"Metallic materials – tensile testing – Part 1: Method of test at room temperature".</i>
Ultimate Shear	MIL-STD-1312-13 <i>"Military Standard: Fastener test method (Method 13) Double shear test".</i>
Pull Out (Withdrawal Force)	EN 14566: 2009 <i>"Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods".</i>
Pull Over	EN 14592: 2008 <i>"Timber structures. Dowel type fasteners. Requirements".</i>
Hardness	ISO 650 7-1: 2005 <i>"Metallic materials – Vickers hardness test – Part 1: Test method".</i>
Corrosion Resistance	EN ISO 9227: 2012 <i>"Corrosion tests in artificial atmospheres. Salt spray tests".</i>
Drilling Time Test	EN 14566: 2009 <i>"Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods".</i>

Laboratory Contact Details

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