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PRODUCT DATASHEET A2 BI-METAL PANCAKE HEAD SELF-DRILLING SCREW

Product Details

Designed for:

Fixing steel to steel

Head style:

Phillips 2

Thread form:

Single coarse thread

Drill point:

Tek 3/Tek5

Material grade:

A2 stainless steel

Coating:

Evoshield

Metal framing tek screw range

Product Code	Size	Drill point	Effective thread	Drilling Capacity	Head style	Steel thickness
BMTSPH5.5-19-3	5.5x19mm	Tek 3	10.0mm	1.2 – 3.5mm	Pancake	1.2 – 3.5mm
BMTSPH5.5-25-3	5.5x25mm	Tek 3	18.0mm	1.2 – 3.5mm	Pancake	1.2 – 3.5mm
BMTSLP5.5-38-5	5.5x38mm	Tek 5	22.0mm	4.0 – 12.5mm	Pancake	4.0 – 12.5mm

Technical Data

Hardness Rating (Vickers scale)					
Diameter	Surface Hardness	Core Hardness			
5.5mm	487.6 HV0.3	373.1 HV0.3			

Ultimate Mechanical Performance					
Diameter	Tensile Strength	Shear Strength			
5.5mm	6.2kN	4.5kN			

Tek 3 range – Unfactored pull out values							
Diameter	Drill point	Steel Thickness					
Diameter		1.2mm	1.6mm	2.0mm	2.5mm	3.0mm	4.0mm
5.5mm	Tek 3	1.2kN	1.7kN	2.1kN	3.4kN	4.5kN	6.1kN

	Tek 5 range – Unfactored pull out values							
	Diameter Drill point		Steel Thickness					
1	Diameter Dim	Driii point	4.0mm	5.0mm	6.0mm	8.0mm	10.0mm	12.5mm
	5.5mm	Tek 5	6.5kN	7.8kN	10.0kN	11.5kN	12.0kN	12.4kN

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



7485

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

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