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PRODUCT DATASHEET

A4 LONG LENGTH SELF DRILLING INSULATION SCREWS

Product Details

Designed for: *Fixing insulation to light gauge steel or timber substrates. Also suitable where dissimilar metals are being used or superior corrosion resistance is required*

Head style: *Bugle*

Recess type: *Phillips No. 2*

Material: *SAE C1022 Carbon steel – drilling point
 AISI 3316/EN 1.4401 (A4) stainless steel – shank and head*

Coating: *5µm electroplated zinc*

Recommended drill speed: *1500-2500RPM*



Long Length Self Drilling Insulation Screws

Product Code	Size	Box Qty	Carton Qty
A4IS45	4.8 x 45.0mm	100	3,200
A4IS60	4.8 x 60.0mm	100	3,200
A4IS80	4.8 x 80.0mm	100	3,200
A4IS100	4.8 x 100.0mm	100	3,200
A4IS120	4.8 x 120.0mm	100	3,200
A4IS140	4.8 x 140.0mm	100	1,600
A4IS160	4.8 x 160.0mm	100	800
A4IS180	4.8 x 180mm	100	800
A4IS200	4.8 x 200mm	100	800
A4IS240	4.8 x 240mm	100	800

Technical Data

Hardness Rating (Vickers scale)		
Diameter	Surface Hardness	Core Hardness
4.8mm	492.8HV	482.3HV

Ultimate Mechanical Performance		
Diameter	Tensile Strength	Shear Strength
4.8mm	7.90kN	5.41kN

Ultimate pull out values (steel)				
Diameter	Drill point	Steel Thickness		
		0.6mm	1.2mm	2.5mm
4.8mm	Tek 2	0.78kN	2.07kN	4.71kN

Ultimate pull out values (timber)			
Diameter	Drill point	Embedment depth	
		25.0mm	35.0mm
4.8mm	Tek 2	1.76kN	3.83kN

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



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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