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PRODUCT DATASHEET
A2 DOME-HEAD STITCHING SCREWS

Product Details

Designed for Purpose:	*Fixing components, brackets and miscellaneous hardware to light gauge steel substrates where a low profile or anti-snag head is required. Also suitable where dissimilar metals are being used or superior corrosion resistance is required*
Head style:	*12mm ⦰ low profile (3.18mm dome head)*
Drive bit:	*Torx 25 female drive recess*
Thread form:	*Coarse thread (pitch = approx.. 1.8mm)*
Material grade:	*SAE C1022 carbon steel – drilling point* *AISI 304/EN 1.4301 (A2) stainless steel – shank and head*
Coating:	5µm *Electroplated zinc*
Recommended drill speed:	*1500 – 2500 RPM*

CERTIFIED LR ISO 9001

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Box Quantity	Carton Quantity
A2DH5.5-25-2	5.5x25mm	Tek 2	19mm	0.6 – 2.5mm	200	2,000
A2DH5.5-38-2	5.5x38mm	Tek 2	32mm	0.6 – 2.5mm	200	2,000
A2DH5.5-50-2	5.5x50mm	Tek 2	44mm	0.6 – 2.5mm	200	2,000
A2DH5.5-60-2	5.5x60mm	Tek 2	54mm	0.6 – 2.5mm	100	2,000
A2DH5.5-80-2	5.5x80mm	Tek 2	74mm	0.6 – 2.5mm	100	2,000
A2DH5.5-100-2	5.5x100mm	Tek 2	94mm	0.6 – 2.5mm	100	2,000
A2DH5.5-25-3	5.5x25mm	Tek 3	15mm	1.2 – 3.5mm	200	2,000
A2DH5.5-38-3	5.5x38mm	Tek 3	28mm	1.2 – 3.5mm	200	2,000
A2DH5.5-50-3	5.5x50mm	Tek 3	40mm	1.2 – 3.5mm	100	2,000

Technical Data

Hardness Rating (Vickers scale)		
Diameter	Surface Hardness	Core Hardness
5.5mm	420.0HV	300.0HV

Ultimate Mechanical Performance		
Diameter	Tensile Strength	Shear Strength
5.5mm	12.4kN	9.8kN

Tek 2 range – Unfactored pull out values							
Diameter	Drill point	Steel Thickness					
		0.6mm	1.2mm	2.5mm	-	-	-
5.5mm	Tek 2	1.1kN	2.5kN	5.7kN	-	-	-

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	1.7kN	2.1kN	2.5kN	3.2kN	4.3kN	5.5kN

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.

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".*

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