Product Model

Fine Thread Drywall Screws (Zinc Plated)

Product Details	
Designed for	Fixing plasterboard to metal stud up to 1.2mm
Head style	Bugle
Drive bit	Phillips 2
Drill point	Super sharp point
Thread form	Twin thread, fine
Coating	Electro plated zinc
Shank material	Carbon steel
Material grade	AISI C1022

Technical data supplied by the manufacturer

evolution

Fine thread zinc coated drywall range

Product Code	Size	Effective thread length	Recommended drill speed	Fixture thickness
DWSZ25	3.5 x 25.0mm	Fully threaded	4000 – 6000RPM	15.0mm
DWSZ32	3.5 x 32.0mm	Fully threaded	4000 – 6000RPM	22.0mm
DWSZ38	3.5 x 38.0mm	Fully threaded	4000 – 6000RPM	28.0mm
DWSZ42	3.5 x 42.0mm	Fully threaded	4000 – 6000RPM	32.0mm
DWSZ50	3.5 x 50.0mm	Fully threaded	4000 – 6000RPM	40.0mm
DWSZ65	4.2 x 65.0mm	50.0mm	4000 – 6000RPM	55.0mm
DWSZ75	4.2 x 75.0mm	50.0mm	4000 – 6000RPM	65.0mm
DWSZ90	4.8 x 90.0mm	50.0mm	4000 – 6000RPM	80.0mm
DWSZ100	4.8 x 100.0mm	65.0mm	4000 – 6000RPM	90.0mm
DWSZ125	4.8 x 125.0mm	65.0mm	4000 – 6000RPM	115.0mm
DWSZ150	4.8 x 150.0mm	80.0mm	4000 – 6000RPM	140.0mm

Technical Data

Hardness Rating (Vickers scale)		
Diameter	**Surface Hardness**	**Core Hardness**
3.5mm	710.0HV	480.0HV
4.2mm	630.0HV	460.0HV
4.8mm	670.0HV	470.0HV

Ultimate mechanical performance		
Diameter	**Tensile Strength**	**Shear Strength**
3.5mm	6.1kN	9.0kN
4.2mm	7.3kN	9.8kN
4.8mm	11.0kN	14.5kN

Notes: 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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Technical Data continued...

Ultimate pull out values				
		Steel Thickness		
Diameter	**Point**	**0.6mm**	**1.0mm**	**1.2mm**
3.5mm	Super sharp point	0.8kN	1.9kN	2.1kN
4.2mm	Super sharp point	0.9kN	1.8kN	2.2kN
4.8mm	Super sharp point	0.9kN	2.2kN	2.6kN

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".

Remark: This technical data sheet replaces all previous versions. The technical data contained herein is given in good faith and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings. The information detailed in this technical data sheet is given by way of indication and is not exhaustive, users should contact either the seller or the manufacturer of the product for additional technical information concerning its use, if they think the information in their possession needs to be clarified in any way.

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