



Evolution Fasteners (UK) Ltd
 Units 2A & 2B Clyde Gateway Trade Park
 Dalmarnock Road, Rutherglen, Glasgow G73 1AN
 Tel: +44 (0)141 647 7100 / Fax: +44 (0)141 647 5100
 Email: technical@evolutionfasteners.co.uk



PRODUCT DATASHEET

COLLATED EXTERIOR BOARD SCREWS

Product Details

Designed for: *Collated exterior drywall screws designed for exterior use*
 Head style: *Bugle-head*
 Thread form: *Fine thread*
 Point style: *Sharp*
 Coating: *1,000 hour Evolshield*
 Material: *SAE C1022 low carbon steel (hardened min. 55 HRC)*

Ordering Information

Product code	Nominal Diameter (mm)	Nominal Length (mm)	Box Quantity	Carton Quantity
CWAS45	3.9	45.0 ± 0.15	1,000	10,000
CWASD45	3.9	45.0 ± 0.15	1,000	1,000

Technical Data

Withdrawal Resistance: Ultimate Loads in Steel Substrates (kN)				
Nominal Diameter (mm)	Steel Thickness			
	0.5mm	0.7mm	1.0mm	1.2mm
3.9	0.68kN	0.79kN	1.05kN	1.26kN

NOTE: Loads are ultimate loads where samples will fail in 95% of occasions as stipulated in UKAS M3003 and tested in accordance with EN 14566: 2008 & A1: 2009.

Pull through resistance: Ultimate loads in plasterboard substrate (kN)		
Nominal diameter (mm)	Substrate	Load (kN)
3.9	12.5mm standard plasterboard	0.6

Hardness rating (Vickers scale)		
Nominal diameter (mm)	Surface (HV0.3)	Core (HV0.3)
3.9	574.3	468.4

Ultimate mechanical properties		
Nominal diameter (mm)	Shear strength (kN)	Tensile strength (kN)
3.9	4.3	8.50

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



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

Evolution Testing & Analytical Services
Units 2A & 2B Clyde Gateway Trade Park
Dalmarnock Road
Rutherglen
South Lanarkshire
G73 1AN
T: (0141) 643 4125
F: (0141) 647 5100
E: sales@etasuk.com