



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



www.evolutionfasteners.co.uk

PRODUCT DATASHEET

SuperTEK®7 MARINE Bi-Metal Stainless Steel



Product Details

| | |
|--------------------------|---|
| Designed for: | <i>Fastening applications to super-heavy gauge cold-formed steel, hot-rolled steel and extruded aluminium substrates.</i> |
| Head style: | <i>Hexagonal</i> |
| Drive bit: | <i>5/16" (8mm) hexagonal</i> |
| Drill point: | <i>Tek 7 spiral point</i> |
| Thread form: | <i>Fine thread of 60° angle and REF. 1.06mm pitch.</i> |
| Coating: | <i>5µm electrodeposited zinc1</i> |
| Material: | <i>SAE 316 (a.k.a. A4-50 and EN 1.4401).</i> |
| Recommended drill speed: | <i>1500-2500 RPM</i> |
| Steel thickness: | <i>4.0 – 18.5mm</i> |

SuperTek 7 Range – For Heavy Steel

| Product Code | Size | Washer | Effective thread length | Drilling capacity |
|----------------|----------|--------|-------------------------|-------------------|
| BMTSHW5.5-55-7 | 5.5x55mm | n/a | FULLY THREADED | 4.0-18.5mm |

Technical Data

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

| Tek 7 range – Unfactored pull out values | | | | | | | |
|--|-------------|-----------------|-------|--------|--------|--------------------------------------|--------|
| Diameter | Drill point | Steel Thickness | | | | | |
| | | 4.0mm | 5.0mm | 8.0mm | 12.5mm | 15.0mm | 18.0mm |
| 5.5mm | Tek 7 | 6.5kN | 7.8kN | 11.5kN | 12.4kN | TENSILE CAPACITY OF FASTENER REACHED | |

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.



7485

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". |

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