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PRODUCT DATASHEET

ZINC COATED TEK SCREW

Product Details

Designed for: *Fastening where a high end corrosion resistant coating is not required*

Head style: *Hexagonal*

Drive bit: *5/16" hexagonal*

Thread form: *Twin, coarse thread (Tek 3)/fine thread (Tek 5)*

Shank material: *Carbon steel*

Material grade: *AISI C1022*

Coating: *Zinc*

Recommended drill speed: *1500 - 2500 RPM*



Tek 3 range – for light steel

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Washer
BWZ25-3	5.5 x 25mm	Tek 3	16.0mm	1.2 – 3.5mm	16mmø bonded EPDM
BWZ32-3	5.5 x 32mm	Tek 3	18.0mm	1.2 – 3.5mm	16mmø bonded EPDM
BWZ38-3	5.5 x 38mm	Tek 3	26.0mm	1.2 – 3.5mm	16mmø bonded EPDM
BWZ50-3	5.5 x 50mm	Tek 3	37.0mm	1.2 – 3.5mm	16mmø bonded EPDM
BWZ75-3	5.5 x 75mm	Tek 3	61.0mm	1.2 – 3.5mm	16mmø bonded EPDM
HWZ25-3	5.5 x 25mm	Tek 3	16.0mm	1.2 – 3.5mm	n/a
HWZ32-3	5.5 x 32mm	Tek 3	22.0mm	1.2 – 3.5mm	n/a
HWZ38-3	5.5 x 38mm	Tek 3	28.0mm	1.2 – 3.5mm	n/a
HWZ50-3	5.5 x 50mm	Tek 3	40.0mm	1.2 – 3.5mm	n/a
HWZ75-3	5.5 x 75mm	Tek 3	65.0mm	1.2 – 3.5mm	n/a

Tek 5 range – for heavy steel

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Washer
HWZ38-5	5.5 x 38mm	Tek 5	18.0mm	4.0 – 12.5mm	n/a
HWZ50-5	5.5 x 50mm	Tek 5	33.0mm	4.0 – 12.5mm	n/a
BWZ38-5	5.5 x 38mm	Tek 5	18.0mm	4.0 – 12.5mm	16mmø bonded EPDM
BWZ50-5	5.5 x 50mm	Tek 5	34.0mm	4.0 – 12.5mm	16mmø bonded EPDM

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.



Technical Data

Hardness Rating (Vickers scale)			Unfactored Mechanical Performance		
Diameter	Surface Hardness	Core Hardness	Diameter	Tensile Strength	Shear Strength
5.5mm	423.0HV	570.0HV	5.5mm	14.9kN	9.4kN

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	2.0kN	2.2kN	4.1kN	5.1kN	6.0kN

Tek 5 range – Unfactored pull out values							
Diameter	Drill point	Steel Thickness					
		4.0mm	5.0mm	6.0mm	8.0mm	10.0mm	12.5mm
5.5mm	Tek 5	6.3kN	7.4kN	8.7kN	10.9kN	14.2kN	16.7kN

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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