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PRODUCT DATASHEET

BI-METAL TEK SCREW

Product Details

Designed for Purpose: *Fastening in aluminium sheeting and panels*
 Head style: *Hexagonal*
 Drive bit: *5/16" hexagonal*
 Thread form: *Twin, coarse thread (Tek 3)/fine thread (Tek 5)*
 Shank material: *Stainless steel*
 Material grade: *AISI A304*
 Coating: *Electroplated zinc*
 Recommended drill speed: *1500 – 2500 RPM*



Tek 3 range – for light steel

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Washer	Steel thickness
BMHH5.5-25-3	5.5x25mm	Tek 3	14.0mm	1.2 – 4.0mm	N/A	1.2 – 4.0mm
BMHH5.5-38-3	5.5x38mm	Tek 3	27.0mm	1.2 – 4.0mm	N/A	1.2 – 4.0mm
BMHH5.5-50-3	5.5x50mm	Tek 3	38.0mm	1.2 – 4.0mm	N/A	1.2 – 4.0mm
BMHH5.5-65-3	5.5x65mm	Tek 3	55.0mm	1.2 – 4.0mm	N/A	1.2 – 4.0mm
BMHH5.5-80-3	5.5x80mm	Tek 3	68.0mm	1.2 – 4.0mm	N/A	1.2 – 4.0mm
BMHH5.5-100-3	5.5x100mm	Tek 3	88.0mm	1.2 – 4.0mm	N/A	1.2 – 4.0mm
BMBW5.5-25-3	5.5x25mm	Tek 3	11.0mm	1.2 – 4.0mm	16mmø bonded EPDM	1.2 – 4.0mm
BMBW5.5-38-3	5.5x38mm	Tek 3	24.0mm	1.2 – 4.0mm	16mmø bonded EPDM	1.2 – 4.0mm
BMBW5.5-50-3	5.5x50mm	Tek 3	35.0mm	1.2 – 4.0mm	16mmø bonded EPDM	1.2 – 4.0mm
BMBW5.5-75-3	5.5x75mm	Tek 3	60.0mm	1.2 – 4.0mm	16mmø bonded EPDM	1.2 – 4.0mm
BMBW5.5-100-3	5.5x100mm	Tek 3	75.0mm	1.2 – 4.0mm	16mmø bonded EPDM	1.2 – 4.0mm

Tek 5 range – for heavy steel

Product Code	Size	Drill point	Effective thread length	Drilling Capacity	Washer	Steel thickness
BMHH5.5-38-5	5.5x38mm	Tek 5	15.0mm	4.0 – 12.5mm	N/A	4.0 – 12.5mm
BMHH5.5-50-5	5.5x50mm	Tek 5	30.0mm	4.0 – 12.5mm	N/A	4.0 – 12.5mm
BMHH5.5-75-5	5.5x75mm	Tek 5	60.0mm	4.0 – 12.5mm	N/A	4.0 – 12.5mm
BMHH5.5-100-5	5.5x100mm	Tek 5	80.0mm	4.0 – 12.5mm	N/A	4.0 – 12.5mm
BMBW5.5-38-5	5.5x38mm	Tek 5	12.0mm	4.0 – 12.5mm	16mmø bonded EPDM	4.0 – 12.5mm
BMBW5.5-50-5	5.5x50mm	Tek 5	30.0mm	4.0 – 12.5mm	16mmø bonded EPDM	4.0 – 12.5mm
BMBW5.5-65-5	5.5x65mm	Tek 5	42.0mm	4.0 – 12.5mm	16mmø bonded EPDM	4.0 – 12.5mm
BMBW5.5-75-5	5.5x75mm	Tek 5	60.0mm	4.0 – 12.5mm	16mmø bonded EPDM	4.0 – 12.5mm
BMBW5.5-85-5	5.5x85mm	Tek 5	65.0mm	4.0 – 12.5mm	16mmø bonded EPDM	4.0 – 12.5mm
BMBW5.5-100-5	5.5x100mm	Tek 5	80.0mm	4.0 – 12.5mm	16mmø bonded EPDM	4.0 – 12.5mm

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.

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Technical Data

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

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	6.5kN	7.8kN	10.0kN	11.5kN	12.0kN	12.4kN

Hardness Rating (Vickers scale)			Ultimate Mechanical Performance			Pullover Performance		
Diameter	Surface Hardness	Core Hardness	Diameter	Tensile Strength	Shear Strength	Diameter	In 0.6mm steel	In 1.2mm steel
5.5mm	420.0HV	300.0HV	5.5mm	10.6kN	6.7kN	5.5mm	2.7kN	8.4kN