

PRODUCT DATASHEET

BI-METAL COMPOSITE PANEL FASTENER



Purpose:	Fixing cladding/roofing applications to hot/cold purlins/rails. Fastening liner panels and general components to steel. Fastening brick-tie channel through Insulation to SFS.
Head style and drive:	Hexagonal, 5/16" hexagonal
High Thread Form:	Coarse thread
Primary Thread form:	Fine thread (TEK 5)
Material Grade:	EN 1.4301/ A2 (AISI A304)
Drilling Point Material Grade:	SAE C1022
Recommended Drill Speed:	1500 – 2500RPM

Image is a real photograph of the actual product described
Illustrated image is representative of the full range.
Please refer to the corresponding drawing file for 1:1 scale replication per SKU

Bi-Metal Composite Panel Fastener Range – Products for use in Heavy Gauge Applications (4.0mm to 12.5mm mild steel)

Product Code	Size	Washer	*Insulation Thickness Range	Drilling Capacity
BMTSBWHT5.5-105-5	5.5 x 105mm	16mm	50mm-65mm	4.0 - 12.5mm
BMTSBWHT5.5-125-5	5.5 x 125mm	16mm	50mm-85mm	4.0 - 12.5mm
BMTSBWHT5.5-150-5	5.5 x 150mm	16mm	75mm-110mm	4.0 - 12.5mm
BMTSBWHT12-5.5-185-5	5.5 x 185mm	12mm	110mm-145mm	4.0 - 12.5mm
BMTSBWHT16-5.5-185-5	5.5 x 185mm	16mm	110mm-145mm	4.0 - 12.5mm
BMTSBWHT5.5-185-5	5.5 x 185mm	19mm	110mm-145mm	4.0 - 12.5mm
BMTSBWHT12-5.5-245-5	5.5 x 245mm	12mm	170mm-205mm	4.0 - 12.5mm
BMTSBWHT16-5.5-245-5	5.5 x 245mm	16mm	170mm-205mm	4.0 - 12.5mm
BMTSBWHT5.5-245-5	5.5 x 245mm	19mm	170mm-205mm	4.0 - 12.5mm

*For Enterprise System applications, please contact our technical team

Technical Data

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	6.4kN	7.7kN	10.1kN	11.4kN	12.3kN	12.8kN

Pullover Performance

Diameter	In 0.6mm steel	In 1.2mm steel
5.5mm	2.4kN	8.1kN

Ultimate Mechanical Performance

Diameter	Tensile Strength	Shear Strength
5.5mm	13.3kN	9.9kN

NOTE: The results expressed in this document are determined from empirical testing. Specifiers, end-users and other third parties should make their own decision(s) on what safety factors to use relevant to their design(s)/ application(s). This document is provided, strictly: without prejudice, without recourse, without liability, non-assumpsit, no assured value, errors and omissions excepted, subject to change without notice and all rights reserved.
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