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PRODUCT DATASHEET BI-METAL COMPOSITE PANEL FASTENER

Product Details

Designed for: 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: Hexagonal
Drive bit: 5/16" hexagonal
High Thread form: Coarse thread

Primary Thread form: Coarse thread (Tek 3) / Fine thread (Tek 5)

Shank material: AISI A304
Material grade: AISI A304

Recommended drill speed: 1500 – 2500RPM

Bi-Metal Composite Panel Fastener Range

Product Code	Nominal Dimensions	Washer Diameter	Insulation Thickness Range			
Products for use in Light Gauge Applications (1.2mm to 4.0mm mild steel)						
BMTSBWHT5.5-80-3	5.5 x 80mm	16mm	20 – 60mm			
BMTSBWHT5.5-105-3	5.5 x 105mm	16mm	50—90mm			
BMTSBWHT5.5-115-3	5.5 x 115mm	16mm	40—95mm			
BMTSBWHT5.5-135-3	5.5 x 135mm	16mm	60—120mm			
BMTSBWHT5.5-150-3	5.5 x 150mm	16mm	75—130mm			
BMTSBWHT5.5-165-3	5.5 x 165mm	16mm	90 – 145mm			
BMTSBWHT16-5.5-185-3	5.5 x 185mm	16mm	110 – 165mm			
BMTSBWHT5.5-185-3	5.5 x 185mm	19mm	110 – 165mm			
BMTSBWHT5.5-235-3	5.5 x 235mm	19mm	155 – 220mm			
BMTSBWHT5.5-275-3	5.5 x 275mm	19mm	195– 255mm			
Products for use in Heavy Gauge Applications (4.0mm to 12.5mm mild steel)						
BMTSBWHT5.5-105-5	5.5 x 105mm	16mm	25 – 85mm			
BMTSBWHT5.5-125-5	5.5 x 125mm	16mm	40 – 105mm			
BMTSBWHT5.5-150-5	5.5 x 150mm	19mm	50 – 130mm			
BMTSBWHT5.5-185-5	5.5 x 185mm	19mm	85 – 165mm			
BMTSBWHT5.5-245-5	5.5 x 245mm	19mm	135 – 215mm			

Technical Data

Tek 3 range – unfactored pull out values							
Diameter	Drill point	Steel Thickness					
Diameter Din	Driii poiiit	1.2mm	1.6mm	2.0mm	2.5mm	3.0mm	4.0mm
5.5mm	Tek 3	1.7kN	2.1kN	2.5kN	3.3kN	4.1kN	5.4kN

Tek 5 range – unfactored pull out values							
Diameter	Drill point	Steel Thickness					
	4mm	5mm	6mm	8mm	10mm	12.5mm	
5.5mm	Tek 5	6.4kN	7.7kN	10.1kN	11.4kN	12.3kN	12.8kN

Hardness Rating (Vickers scale)				
Diameter	Surface Hardness	Core Hardness		
5.5mm	465.6 HV0.3	323.7 HV0.3		

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		