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PRODUCT DATASHEET

COMPOSITE PANEL FASTENER

Product Details

Designed for: *Fixing cladding/roofing applications to hot/cold purlins/rails. Fastening liner panels and general components to steel.*

Head style: *Hexagonal*
 Drive bit: *5/16" hexagonal*
 High Thread form: *Coarse thread*
 Primary Thread form: *Fine thread*
 Shank material: *Carbon steel*
 Material grade: *AISI C1022*
 Coating: *500hr Evoshield®*



Composite panel fastener range – for heavy steel

Product Code	Size	Washer	Insulation Thickness Range	Recommended drill speed	Steel Thickness
TSBWHT-5.5-85-5	5.5x85mm	16mm	35-50mm	1500-2500 RPM	4.0 – 12.5mm
TSBWHT-5.5-105-5	5.5x105mm	16mm	55-70mm	1500-2500 RPM	4.0 – 12.5mm
TSBWHT-5.5-125.-5	5.5x125mm	16mm	75-90mm	1500-2500 RPM	4.0 – 12.5mm
TSBWHT-5.5-150-5	5.5x150mm	16mm	80-115mm	1500-2500 RPM	4.0 – 12.5mm
TSBWHT19-5.5-185-5	5.5x185mm	19mm	115-150mm	1500-2500 RPM	4.0 – 12.5mm
TSBWHT19-5.5-235-5	5.5x235mm	19mm	170-200mm	1500-2500 RPM	4.0 – 12.5mm

Technical Data

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	6.0kN	8.2kN	9.6kN	12.4kN	14.5kN	17.5kN

Hardness Rating (Vickers scale)			Unfactored Mechanical Performance		
Diameter	Surface Hardness	Core Hardness	Diameter	Tensile Strength	Shear Strength
5.5mm	575.0 HV0.3	480.0 HV0.3	5.5mm	9.8kN	6.4kN

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).

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