

PRODUCT DATASHEET

COMPOSITE PANEL FASTENER



PRODUCT DETAILS

Purpose:	Fixing cladding and roofing applications to hot and cold rolled purlins and rails or steel wall channeling through insulation to studs.
Head style and drive:	Hexagonal, 5/16" hexagonal
High Thread Form:	Coarse Thread
Primary Thread Form:	Fine Thread
Drill Point:	TEK 5
Material Grade:	AISI C1022
Coating:	500hr EvoShield®
Washer:	Bonded EPDM
Recommended Drill Speed:	1500 – 2500RPM

GENERAL PHYSICAL CHARACTERISTICS

Product Code	Size	Washer	Insulation Thickness Range	Drilling Capacity
TSBWHT5.5-85-5	5.5 x 85mm	16mm	30mm-45mm	4.0-12.5mm
TSBWHT5.5-105-5	5.5 x 105mm	16mm	50mm-65mm	4.0-12.5mm
TSBWHT5.5-125-5	5.5 x 125mm	16mm	50mm-85mm	4.0-12.5mm
TSBWHT5.5-150-5	5.5 x 150mm	16mm	75mm-110mm	4.0-12.5mm

Product Code	Size	Washer	Insulation Thickness Range	Drilling Capacity
TSBWHT19-5.5-185-5	5.5 x 185mm	19mm	110mm-145mm	4.0-12.5mm
TSBWHT19-5.5-235-5	5.5 x 235mm	19mm	160mm-195mm	4.0-12.5mm
TSBWHT19-5.5-260-5	5.5 x 260mm	19mm	185mm-220mm	4.0-12.5mm

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	6,000N	8,200N	9,600N	12,400N	14,500N	17,500N

CHARACTERISTIC MECHANICAL PROPERTIES

Property	Magnitude
Tensile Capacity, (F_{ult}, R_k)	12,000N
Shear Capacity, (V_{ult}, R_k)	7,900N
Torsional Capacity, (τ_{ult}, R_k)	15.8Nm

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-assumptit, no assured value, errors and omissions excepted, subject to change without notice and all rights reserved.
 ©Evolution Fasteners UK Ltd, 2021.