



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

PRODUCT DATASHEET

TEK 3 Screw Hex Head

PRODUCT DETAILS

Purpose:	Fixing cladding/roofing applications to hot/cold rolled purlins/rails. Fastening liner panels and general components to steel
Head style and drive:	Hexagonal, 5/16" hexagonal
Thread form:	Coarse thread (TEK 3)
Shank Material:	Carbon Steel
Material Grade:	SAE C1022
Coating:	500hr Evoshield®
Recommended Drill Speed:	1500 – 2500RPM

Hex Head For Light Steel TEK Screw Range - Products for use in Light Gauge Applications (1.2mm to 4.0mm mild steel)

SKU	Nominal Dimensions, $d_{nom} \times L_{nom}$ (mm)	Effective Thread Length, L_{thread} (mm)
TSHW4.8-16-3	4.8 x 16.0	FULL
TSHW4.8-25-3	4.8 x 25.0	FULL
TSHW4.8-32-3	4.8 x 32.0	FULL
TSHW5.5-19-3	5.5 x 19.0	FULL
TSHW5.5-25-3	5.5 x 25.0	FULL
TSHW5.5-32-3	5.5 x 32.0	FULL
TSHW5.5-38-3	5.5 x 38.0	FULL
TSHW5.5-50-3	5.5 x 50.0	FULL
TSHW5.5-60-3	5.5 x 60.0	FULL
TSHW5.5-75-3	5.5 x 75.0	FULL
TSHW5.5-100-3	5.5 x 100.0	80.0
TSHW5.5-125-3	5.5 x 125.0	80.0

Ultimate Withdrawal Resistance, N_{Rk} , from S355JR Steel (N)

Nominal Diameter (mm)	Nominal Substrate Thickness, t_{nom}					
	Steel Thickness					
	1.2mm	1.6mm	2.0mm	2.5mm	3.0mm	4.0mm
4.8mm	1,200 N	1,600 N	2,000 N	3,000 N	3,900 N	4,500 N
5.5mm	1,700 N	1,900 N	2,400 N	4,600 N	6,500 N	7,600 N

Characteristic Mechanical Performance

Property	Magnitude	
	4.8mm	5.5mm
Tensile Capacity, $(F_{ult} \cdot R_k)$	10,300 N	16,600 N
Shear Capacity, $(V_{ult} \cdot R_k)$	7,100 N	10,500 N

Ultimate Pullover Performance

Nominal Diameter (mm)	In 0.6 mm Steel	In 1.2 mm Steel
4.8	2,800 N	3,600 N
5.5	3,000 N	4,400 N

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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