



PRODUCT DATASHEET

Hex Head SuperTEK X Range for Heavy Steel

PRODUCT DETAILS

Purpose:	Fixing steel to steel
Head style:	5/16" Hexagonal Head
Drill Point:	TEK X spiral point
Thread Form:	Single, 14 threads per inch intermediate thread 'V' fluted
Coating:	1000hr Rated EvoShield® Coating
Shank Material:	Carbon Steel
Material Grade:	AISI C1022
Steel Thickness:	4.0mm - 30.0mm
Recommended Drill Speed:	1,500 - 2,500 RPM

SuperTEK X Range - Products for use in Heavy Gauge Steel Applications (4.0mm to 30.0mm mild steel)

SKU	Nominal Dimensions, $d_{nom} \times L_{nom}$ (mm)	Effective Thread Length, L_{thread} (mm)
TSHW6.3-85-X	6.3 x 85.0	Full
TSHW6.3-135-X	6.3 x 135.0	100.0

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

Diameter	Nominal Substrate Thickness, t_{nom}							
	4.0mm	8.0mm	12.0mm	15.0mm	20.0mm	25.0mm	30.0mm	35.0mm
6.3mm	5,700 N	10,900 N	15,300 N	17,600 N	21,500 N	23,400 N	25,400 N	27,800 N

Ultimate Mechanical Performance

Property	Magnitude
Tensile Capacity, (F_{ult}, R_k)	22,700N
Shear Capacity, (V_{ult}, R_k)	12,500N

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.
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