

PRODUCT DATASHEET

Phillips Wing-Drill TEK 3 Screw



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 DETAILS

Purpose:	Fixing timber or composites to steel
Head style:	Countersunk or countersunk with nibs
Material Grade:	AISI C1022
Coating:	500hr Evoshield®
Drill Point:	TEK 3
Drilling Capacity:	1.2 – 4.0mm
Recommended Drill Speed:	1500-2500 RPM

Phillips Wing-Drill TEK 3- Products for use in Light Gauge Steel Applications (1.2mm to 4.0mm mild steel)

SKU	Nominal Dimensions, $d_{nom} \times L_{nom}$ (mm)	Recess Type	*Timber Capacity (mm)
TSTF4.2-38-3 (Discontinued)	4.2 x 38.0	Phillips 2	5.0 - 15.0
TSTF4.8-38-3	4.8 x 38.0	Phillips 2	5.0 - 15.0
TSTF4.8-45-3	4.8 x 45.0	Phillips 2	5.0 - 23.0
TSTF5.5-38-3	5.5 x 38.0	Phillips 3	5.0 - 13.0
TSTF5.5-50-3	5.5 x 50.0	Phillips 3	5.0 - 25.0
TSTF5.5-62-3	5.5 x 62.0	Phillips 3	5.0 - 37.0
TSTF5.5-80-3	5.5 x 80.0	Phillips 3	25.0 - 55.0
TSTF5.5-100-3	5.5 x 100.0	Phillips 3	45.0 - 75.0
TSTF5.5-120-3	5.5 x 120.0	Phillips 3	50.0 - 95.0
TSTF5.5-150-3	5.5 x 150.0	Phillips 3	55.0 - 125.0
TSTF5.5-180-3	5.5 x 180.0	Phillips 3	85.0 - 155.0
TSTF5.5-200-3	5.5 x 200.0	Phillips 3	105.0 - 175.0
TSTF5.5-235-3	5.5 x 235.0	Phillips 3	140.0 - 210.0

*Assuming fixing back to maximum substrate thickness of 12.0mm

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

Nominal Diameter (mm)	Nominal Substrate Thickness, t_{nom}					
	1.2mm	1.6mm	2.0mm	2.5mm	3.0mm	4.0mm
4.2	1,000 N	1,200 N	1,900 N	3,500 N	3,900 N	4,800 N
4.8	1,100 N	1,500 N	2,500 N	3,600 N	3,900 N	4,400 N
5.5	1,200 N	2,300 N	3,000 N	4,000 N	4,600 N	5,700 N

Ultimate Mechanical Performance

Property	Magnitude		
	4.2mm	4.8mm	5.5mm
Tensile Capacity, (F_{ult}, R_k)	7,800 N	10,300 N	16,600 N
Shear Capacity, (V_{ult}, R_k)	5,000 N	7,100 N	10,500 N

Ultimate Pullover Performance

Nominal Diameter (mm)	in 50mm Timber
4.2	1,600 N
4.8	2,200N
5.5	2,700 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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