Evolution Fasteners (UK) Ltd
Clyde Gateway Trade Park
Dalmarnock Road, Rutherglen,
Glasgow G73 1AN
Tel: +44 (0)141 647 7100
Fax: +44 (0)141 647 5100
Email: technical@evofas.com

www.evofas.com

PRODUCT DATASHEET

Phillips Wing-Drill TEK 5 Screw

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 5
Drilling Capacity:	4.0 – 12.0mm
Recommended Drill Speed:	1500-2500 RPM

Phillips Wing-Drill TEK 5- Products for use in Heavy Gauge Steel Applications (4.0mm to 12.0mm mild steel)

SKU	Nominal Dimensions, d_{nom} x L_{nom} (mm)	Recess Type	Timber Capacity (mm)
TSTF5.5-42-5	5.5 x 42.0	Phillips 3	5.0 - 7.0
TSTF5.5-65-5	5.5 x 65.0	Phillips 3	5.0 - 30.0
TSTF5.5-85-5	5.5 x 85.0	Phillips 3	25.0 - 50.0
TSTF5.5-100-5	5.5 x 100.0	Phillips 3	40.0 - 65.0
TSTF5.5-110-5	5.5 x 110.0	Phillips 3	35.0 - 75.0
TSTF5.5-135-5	5.5 x 135.0	Phillips 3	60.0 - 100.0
TSTF5.5-150-5	5.5 x 150.0	Phillips 3	50.0 - 115.0
TSTF5.5-180-5	5.5 x 180.0	Phillips 3	80.0 - 145.0

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

Nominal Diameter (mm)	Nominal Substrate Thickness, t_{nom}					
	4.0mm	5.0mm	6.0mm	8.0mm	10.0mm	12.5mm
5.5	4,200 N	9,800 N	10,400 N	11,700 N	12,500 N	13,800 N

Characteristic Mechanical Performance

Property	Magnitude
Tensile Capacity, (F_{ult},R_k)	17,100 N
Shear Capacity, (V_{ult},R_k)	10,400 N
Torsinal Capacity, (τ_{ult}, R_k)	13.7 N.m

Ultimate Pullover Performance

Nominal Diameter (mm)	in 50mm Timber
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.