

# product datasheet

## wing-drill tek screw



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<b>Designed for:</b>	Fixing timber or composites to steel.
<b>Head Style:</b>	Countersunk or countersunk with nibs*
<b>Drive Bit:</b>	Phillips 3
<b>Washer:</b>	16mm Ø bonded EPDM
<b>Thread Form:</b>	Twin, coarse thread (Tek3)/fine thread (Tek 5)
<b>Coating:</b>	500hr silver Ruspert®
<b>Shank Material:</b>	Carbon steel
<b>Material Grade:</b>	AISI C1022

### Wing-drill Tek Screw Range - for Light Steel

Product Code	Size	Box Qty	Carton Qty	Drill Point	Effective Thread Length	Drilling Capacity	Recommended Drill Speed	Steel Thickness	Timber Thickness
TSTF4.2-38-3*	4.2 x 38mm	100	6,400	Tek 3	22mm	1.2mm - 3.5mm	2,000 - 3,000 RPM	1.2mm - 3.5mm	6.0 - 22.0mm
TSTF4.8-45-3*	4.8 x 45mm	100	2,400	Tek 3	27mm	1.2mm - 3.5mm	2,000 - 3,000 RPM	1.2mm - 3.5mm	10.0 - 27.0mm
TSTF5.5-50-3	5.5 x 50mm	200	2,800	Tek 3	30mm	1.2mm - 3.5mm	2,000 - 3,000 RPM	1.2mm - 3.5mm	13.0 - 30.0mm
TSTF5.5-62-3	5.5 x 62mm	200	2,800	Tek 3	40mm	1.2mm - 3.5mm	2,000 - 3,000 RPM	1.2mm - 3.5mm	13.0 - 40.0mm
TSTF5.5-80-3	5.5 x 80mm	100	1,400	Tek 3	60mm	1.2mm - 3.5mm	2,000 - 3,000 RPM	1.2mm - 3.5mm	25.0 - 60.0mm
TSTF5.5-100-3	5.5 x 100mm	100	1,400	Tek 3	80mm	1.2mm - 3.5mm	2,000 - 3,000 RPM	1.2mm - 3.5mm	45.0 - 80.0mm
TSTF5.5-120-3	5.5 x 120mm	100	1,400	Tek 3	100mm	1.2mm - 3.5mm	2,000 - 3,000 RPM	1.2mm - 3.5mm	45.0 - 100.0mm
TSTF5.5-150-3	5.5 x 150mm	100	1,200	Tek 3	130mm	1.2mm - 3.5mm	2,000 - 3,000 RPM	1.2mm - 3.5mm	45.0 - 125.0mm

### Wing-drill Tek Screw Range - for Heavy Steel

Product Code	Size	Box Qty	Carton Qty	Drill Point	Effective Thread Length	Drilling Capacity	Recommended Drill Speed	Steel Thickness	Timber Thickness
TSTF5.5-42-5	5.5 x 42mm	100	2,400	Tek 5	13mm	4.0mm -12.5mm	1,500 - 2,500 RPM	4.0mm -12.5mm	10.0 - 13.0mm
TSTF5.5-65-5	5.5 x 65mm	200	2,800	Tek 5	28mm	4.0mm -12.5mm	1,500 - 2,500 RPM	4.0mm -12.5mm	10.0 - 28.0mm
TSTF5.5-85-5	5.5 x 85mm	100	1,400	Tek 5	50mm	4.0mm -12.5mm	1,500 - 2,500 RPM	4.0mm -12.5mm	30.0 - 50.0mm
TSTF5.5-100-5	5.5 x 100mm	100	1,400	Tek 5	65mm	4.0mm -12.5mm	1,500 - 2,500 RPM	4.0mm -12.5mm	45.0 - 65.0mm
TSTF5.5-135-5	5.5 x 135mm	100	1,200	Tek 5	100mm	4.0mm -12.5mm	1,500 - 2,500 RPM	4.0mm -12.5mm	45.0 - 100.0mm

### Ultimate Pull Out Values

Diameter	Drill Point	Steel Thickness							
		1.2mm	1.6mm	2.0mm	2.5mm	3.0mm	4.0mm	5.0mm	6.0mm
4.2mm	Tek 3	1.5kN	2.2kN	3.0kN	5.2kN	5.6kN	N/A	N/A	N/A
4.8mm	Tek 3	2.0kN	2.6kN	4.0kN	5.8kN	6.5kN	N/A	N/A	N/A
5.5mm	Tek 3	2.5kN	3.4kN	4.8kN	7.0kN	8.1kN	N/A	N/A	N/A
5.5mm	Tek 5	N/A	N/A	N/A	N/A	N/A	8.9kN	11.2kN	14.1kN

### Hardness Ratings (Vickers)

Diameter	Surface Hardness	Core Hardness
4.2mm	600HV	N/A
4.8mm	590HV	270HV
5.5mm	560HV	270HV

### Ultimate Mechanical Performance

Diameter	Tensile Strength	Shear Strength	Torque
4.2mm	6.8kN	4.4kN	4.4Nm
4.8mm	9.0kN	6.4kN	7.2Nm
5.5mm	14.2kN	9.2kN	10.0Nm

### Pullover Performance

Diameter	Timber Grade	Timber Thickness	Load
4.2mm & 4.8mm	C16	50mm	5.0kN
5.5mm	C16	50mm	5.8kN

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