



TEKWARM

UFH FIXINGS PACK

Designed to compliment our Tekwarm 20mm UFH boards, suitable for use into timber, screed or concrete.

PACK CONTAINS:

- 100 x 4.8 x 45mm Tekwarm UFH self-tapping screws for timber, screed or concrete
- 100 x 50mm stress plate

WASHERS / SPR "STRESS PLATES"

PRODUCT DETAILS

Tekwarm Stress Plates are designed for use with 45mm screws. Stress plates should be used when fixing Tekwarm 20mm UFH boards to help distribute load and prevent the material being fastened from pulling over the head of the fastener.

For corrosion resistance, a Galvalume coating is applied to the carbon steel plates. This coating is comprised primarily of aluminium and zinc.

GENERAL PHYSICAL CHARACTERISTICS

Stress Plate Nominal Dimensional Information

Form	Nominal Thickness (mm)	Nominal Dimensions (mm)
Round	0.5	50.0 (diameter)

SELF TAPPING SCREW

PRODUCT DETAILS

Purpose:	Fixing underfloor heating boards to concrete, timber and screed substrates
Head style:	Countersunk
Drive bit:	Phillips No. 2
Point:	Nail (pyramidal)
Coating:	EvoShield® 500Hr NSST resistant (Aluminium/ Zinc flake bound in resin)
Material:	SAE C1022 Carbon steel



SELF TAPPING SCREW CONT...

GENERAL PHYSICAL CHARACTERISTICS

Nominal Dimensions $d_{nom} \times L_{nom}$ (mm)	Fixture Limitations	
	Min. Thickness (mm)	Max. Thickness (mm)
4.8 x 45.0	0	20

PRODUCT SETTING DETAILS

Substrate Type	Parameter	Screw Nominal Diameter d_{nom} (mm)
All Types	Nominal Embedment Depth, h_l (mm)	25
	Nominal Drill Hole Diameter, d_0 (mm)	4.35
	Clearance Hole Diameter, d_f (mm)	6
	Installation Torque, $inst$ (Nm)	< 3.0
Non-Cracked Concrete (> 20 MPa < 80 MPa)	Minimum Member Thickness, h_c (mm)	100
	Minimum Edge Distance, c_{min} (mm)	50
	Minimum Spacing, s_{min} (mm)	50
Cracked Concrete (> 20 MPa < 80 MPa)	Minimum Member Thickness, h_{min} (mm)	100
	Minimum Edge Distance, c_{min} (mm)	50
	Minimum Spacing, s_{min} (mm)	50

CHARACTERISTIC WITHDRAWAL RESISTANCE, NRK

Diameter (mm)	Embedment depth (mm)	C30/35 Concrete (35N/mm ²)	Aerated Concrete Block (7N/mm ²)	Class B Engineering Brick (75N/mm ²)
4.8	25.0	1570	1000	1570
	35.0	4500	2930	2250

CHARACTERISTIC MECHANICAL PROPERTIES

	Magnitude
Tensile capacity (Fult,Rk)	11.680N
Shear capacity (Vult,Rk)	7.560N
Torsional Capacity (ult,Rk)	7.2Nm