

WBT Screw for concrete

Screw for concrete substrates, TX25 head. Shape and type of the thread specially design to allow connecting to concrete and wood.



Approvals and Reports

- ETA-09/0346



Product information

Features and benefits

- Hardened thread surface
- High quality anti-corrosion coating guarantees resistance of 15 Kesternich cycles.
- Shape and type of the thread specially design to allow connecting to concrete and wood.
- The drill point is designed to provide a fast and hassle-free installation. Sharp point of the drill prevents movement of the surface of the fixture.
- Pre-assembly with other component is possible before installation

Applications

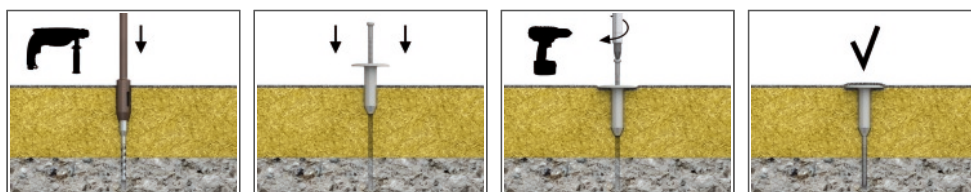
- Insulation materials in flat roof applications in conjunction with telescopic connector and steel washer

Base materials

Approved for use in:

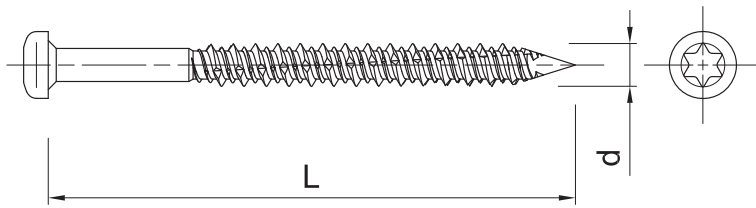
- Concrete
- Concrete Slab
- Timber

Installation guide



1. Drill the hole of required diameter and depth (where applicable)
2. Lightly insert plastic sleeve into insulation material
3. Using drilling machine, drive the WBT screw into substrate until fixing depth is reached

Product information



Product Code	Screw	
	Diameter	Length
	d	L
	[mm]	[mm]
R-WBT-61050	6.1	50
R-WBT-61075	6.1	75
R-WBT-61090	6.1	90
R-WBT-61100	6.1	100
R-WBT-61120	6.1	120
R-WBT-61140	6.1	140
R-WBT-61160	6.1	160
R-WBT-61180	6.1	180
R-WBT-61200	6.1	200
R-WBT-61220	6.1	220
R-WBT-61240	6.1	240
R-WBT-61260	6.1	260
R-WBT-61300	6.1	300

Installation data

Substrate			Concrete C20/25	Thin-walled slab C16/20	Timber
Screw diameter	d	[mm]	6.1	6.1	6.1
Hole diameter in substrate	d ₀	[mm]	5	5	-
Min. hole depth in substrate	h ₀	[mm]	35	25	-
Installation depth	h _{nom}	[mm]	30	20	30
Min. substrate thickness	h _{min}	[mm]	35	20	30
Min. spacing	s _{min}	[mm]	120	120	120
Min. edge distance	c _{min}	[mm]	30	30	50
Screw drive	-	[-]	TX25	TX25	TX25

Basic performance data

Size		Concrete C12/15	Concrete C20/25	Thin-walled slab C16/20	Timber, grade C24
Effective embedment depth h _{ef}	[mm]	30.00	30.00	20.00	30.00
MEAN ULTIMATE LOAD					
POK-041 + WBT	[kN]	-	-	-	-
CHARACTERISTIC LOAD					
POK-041 + WBT	[kN]	3.84	3.84	1.85	1.59
DESIGN LOAD					
POK-041 + WBT	[kN]	1.92	1.92	0.76	0.80
RECOMMENDED LOAD					
POK-041 + WBT	[kN]	1.37	1.37	0.54	0.57

Design performance data

Size			Concrete C12/15	Concrete C20/25	Thin-walled slab C16/20	Timber, grade C24
Effective embedment depth	h_{ef}	[mm]	30	30	20	30
TENSION LOAD						
PULL-OUT FAILURE						
Characteristic resistance	$N_{Rk,p}$	[kN]	3.84	3.84	1.85	1.59
Design resistance $V_M^* = *$	$N_{Rd,p}$	[kN]	1.92	1.92	0.76	0.80

Product commercial data

Size	Product Code	Screw	Quantity [pcs]			Weight [kg]			Bar Codes
		Length [mm]	Box	Outer	Pallet	Box	Outer	Pallet	
Ø6.1	R-WBT-61050 ¹⁾	50	100	3200	76800	0.94	30.1	752.4	5906675101200
	R-WBT-61075 ¹⁾	75	100	1600	38400	1.13	18.0	462.8	5906675101231
	R-WBT-61090 ¹⁾	90	100	1600	38400	1.36	21.8	552.2	5906675101309
	R-WBT-61100 ¹⁾	100	100	1600	38400	1.50	24.0	605.3	5906675101408
	R-WBT-61120 ¹⁾	120	100	1200	28800	1.81	21.7	550.2	5906675101439
	R-WBT-61140 ¹⁾	140	100	1200	28800	2.1	25.0	628.8	5906675101460
	R-WBT-61160 ¹⁾	160	100	1200	28800	2.4	28.5	712.9	5906675101514
	R-WBT-61180 ¹⁾	180	100	100	16800	2.7	2.7	477.9	5906675225173
	R-WBT-61200 ¹⁾	200	100	100	16800	2.9	2.9	518.5	5906675101927
	R-WBT-61220 ¹⁾	220	100	100	16800	3.2	3.2	568.4	5906675102214
	R-WBT-61240 ¹⁾	240	100	100	16800	3.5	3.5	620.7	5906675102245
	R-WBT-61260 ¹⁾	260	100	100	16800	3.8	3.8	661.7	5906675102269
R-WBT-61300 ¹⁾	300	100	100	9100	4.3	4.3	423.2	5906675102290	

1) ETA-09/0346