

WHS Frame screw

Special frame screw for window and door installation



Product information

Features and benefits

- Cylindrical head for the comfortable installation in metal window and door frames.
- No additional plugs required, making the WHS screw a user-friendly and time-efficient fixing solution
- Expansion-free fixing imposes less stress on substrate during installation
- High load resistances from a relatively small hole diameter
- Easily removed for temporary works

Applications

- Door and window frames
- Securing formwork
- Suspended ceilings
- Lightweight steel angles
- Timber constructions

Base materials

Approved for use in:

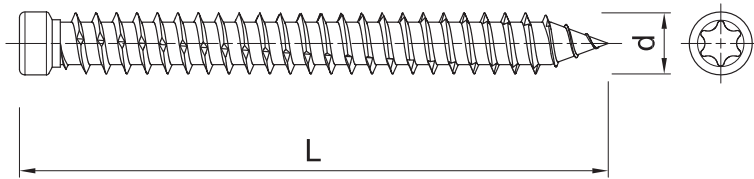
- Concrete
- Solid Brick
- Hollow Brick
- Aerated Concrete Block

Installation guide



1. Drill a hole of required diameter and depth
2. Lightly screw into hole through the fixture, until fixing depth is reached and fixture is secure

Product information



Size	Product Code	Screw diameter	Screw	Fixture		
		d	Length L	Max. thickness		Hole diameter d _f
				t _{fix} Concrete	t _{fix} Other	
[mm]						
Ø7.5	R-WHS-75052	7.5	52	22	-	8
	R-WHS-75072	7.5	72	42	12	8
	R-WHS-75092	7.5	92	62	32	8
	R-WHS-75112	7.5	112	82	52	8
	R-WHS-75132	7.5	132	102	72	8
	R-WHS-75152	7.5	152	122	92	8
	R-WHS-75182	7.5	182	152	122	8
	R-WHS-75202	7.5	202	172	142	8
R-WHS-75212	7.5	212	182	152	8	

Installation data

Substrate			Concrete	Aerated concrete	Other
Hole diameter in substrate	d ₀	[mm]	6	6	6
Min. hole depth in substrate	h ₀	[mm]	40	-	70
Min. installation depth	h _{nom}	[mm]	30	60	60
Min. substrate thickness	h _{min}	[mm]	60	90	90
Min. spacing	s _{min}	[mm]	15	30	30
Min. edge distance	c _{min}	[mm]	15	50	50
Fixing diameter	d	[mm]	7.5	7.5	7.5

Basic performance data

Performance data for single fixing without influence of edge distance and spacing

Substrate		Concrete C20/25	Solid brick 7.5MPa	Aerated concrete 400	Perforated brick K3
MEAN ULTIMATE LOAD F_{Ru,m}					
Ø7.5, Effective embedment depth 30 mm	[kN]	6.15	-	-	-
Ø7.5, Effective embedment depth 60 mm	[kN]	-	2.58	1.27	1.02
CHARACTERISTIC LOAD F_{Rk}					
Ø7.5, Effective embedment depth 30 mm	[kN]	5.21	-	-	-
Ø7.5, Effective embedment depth 60 mm	[kN]	-	2.11	1.14	0.90
DESIGN LOAD F_{Rd}					
Ø7.5, Effective embedment depth 30 mm	[kN]	2.08	-	-	-
Ø7.5, Effective embedment depth 60 mm	[kN]	-	0.84	0.46	0.36
RECOMMENDED LOAD F_{rec}					
Ø7.5, Effective embedment depth 30 mm	[kN]	1.49	-	-	-
Ø7.5, Effective embedment depth 60 mm	[kN]	-	0.60	0.33	0.26

Product commercial data

Product Code	Screw diameter [mm]	Screw	Quantity [pcs]			Weight [kg]			Bar Codes
		Length [mm]	Box	Outer	Pallet	Box	Outer	Pallet	
R-WHS-75052	7.5	52	100	800	25600	1.04	8.3	296.2	5906675174822
R-WHS-75072	7.5	72	100	800	25600	1.47	11.8	406.3	5906675174846
R-WHS-75092	7.5	92	100	100	20800	1.84	1.84	412.7	5906675174860
R-WHS-75112	7.5	112	100	100	20800	2.3	2.3	507.6	5906675174884
R-WHS-75132	7.5	132	100	100	20800	2.7	2.7	594.3	5906675174907
R-WHS-75152	7.5	152	100	100	20800	3.1	3.1	674.4	5906675174921
R-WHS-75182	7.5	182	100	100	22400	3.7	3.7	859.0	5906675174945
R-WHS-75202	7.5	202	100	100	27300	4.1	4.1	1149.3	5906675208787
R-WHS-75212	7.5	212	100	100	27300	4.3	4.3	1203.9	5906675208794