

R-WCS Screw for concrete

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



Approvals and Reports

- ETA-09/0346
- UKTA-22/6338



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.
- Sharp point of the drill prevents movement of the surface of the fixture

Applications

- Speedy anchoring of different kind of material in concrete on roofs and facades

Base materials

Approved for use in:

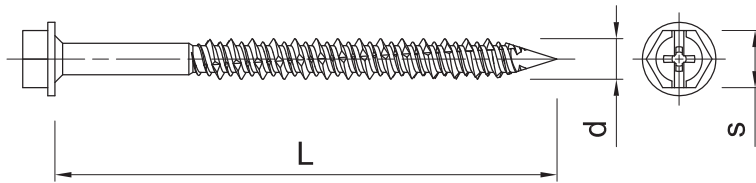
- Concrete
- Concrete Slab

Installation guide



1. Position POW washer on insulation and insert WCS screw
2. Using drilling machine, drive the screw into substrate until fixing depth is reached

Product information



Product Code	Screw		
	Diameter	Length	Head size
	d	L	S
	[mm]	[mm]	[mm]
R-WCS-63028	6.3	28	8
R-WCS-63035	6.3	35	8
R-WCS-63045	6.3	45	8
R-WCS-63080	6.3	80	8
R-WCS-63100	6.3	100	8
R-WCS-63130	6.3	130	8
R-WCS-63150	6.3	150	8
R-WCS-63180	6.3	180	8
R-WCS-63230	6.3	230	8
R-WCS-63260	6.3	260	8

Installation data

Substrate			Concrete	Timber
Hole diameter in substrate	d_0	[mm]	5	-
Min. hole depth in substrate	h_0	[mm]	35	-
Min. installation depth	h_{nom}	[mm]	30	30
Min. substrate thickness	h_{min}	[mm]	35	35
Min. spacing	s_{min}	[mm]	120	120
Min. edge distance	c_{min}	[mm]	30	30
Screw diameter	d	[mm]	6.3	6.3

Design performance data

Size		
Effective embedment depth	h_{ef}	[mm]

WCS WITHOUT WASHER

Characteristic load	F_{Rk}	[kN]	0.47
Design load	F_{Rd}	[kN]	0.19
Characteristic load	F_{Rk}	[kN]	0.47
Design load	F_{Rd}	[kN]	0.16
Characteristic resistance	V_{Rk}	[kN]	0.86
Design load	V_{Rd}	[kN]	0.65
Characteristic load	F_{Rk}	[kN]	1.36
Design load	F_{Rd}	[kN]	0.54
Characteristic load	F_{Rk}	[kN]	1.36
Design load	F_{Rd}	[kN]	0.45
Characteristic resistance	V_{Rk}	[kN]	-
Design load	V_{Rd}	[kN]	-

Product commercial data

Size	Product Code	Screw	Quantity [pcs]			Weight [kg]			Bar Codes
		Length [mm]	Box	Outer	Pallet	Box	Outer	Pallet	
Ø6.3	R-WCS-63028	28	250	4000	96000	1.25	20.1	511.5	5906675103853
	R-WCS-63035 ¹⁾	35	250	4000	96000	1.52	24.4	614.4	5906675103860
	R-WCS-63045 ¹⁾	45	200	3200	76800	1.63	26.0	654.0	5906675103907
	R-WCS-63080 ¹⁾	80	100	1600	38400	1.32	21.2	537.6	5906675103914
	R-WCS-63100 ¹⁾	100	100	1600	38400	1.69	27.0	678.0	5906675103921
	R-WCS-63130 ¹⁾	130	100	1200	28800	2.0	24.4	615.9	5906675103945
	R-WCS-63150 ¹⁾	150	100	1200	28800	2.3	27.7	694.6	5906675103952
	R-WCS-63180 ¹⁾	180	100	800	19200	2.7	21.9	555.3	5906675103969
	R-WCS-63230 ¹⁾	230	100	100	16800	3.5	3.5	615.1	5906675103983
R-WCS-63260 ¹⁾	260	100	100	16800	3.9	3.9	688.2	5906675104003	

1) ETA-09/0346