

## 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:

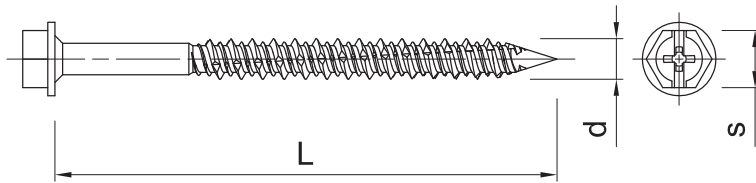
- Concrete
- Concrete Slab

### 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 <sup>1)</sup>	35	250	4000	96000	1.52	24.4	614.4	5906675103860
	R-WCS-63045 <sup>1)</sup>	45	200	3200	76800	1.63	26.0	654.0	5906675103907
	R-WCS-63080 <sup>1)</sup>	80	100	1600	38400	1.32	21.2	537.6	5906675103914
	R-WCS-63100 <sup>1)</sup>	100	100	1600	38400	1.69	27.0	678.0	5906675103921
	R-WCS-63130 <sup>1)</sup>	130	100	1200	28800	2.0	24.4	615.9	5906675103945
	R-WCS-63150 <sup>1)</sup>	150	100	1200	28800	2.3	27.7	694.6	5906675103952
	R-WCS-63180 <sup>1)</sup>	180	100	800	19200	2.7	21.9	555.3	5906675103969
	R-WCS-63230 <sup>1)</sup>	230	100	100	16800	3.5	3.5	615.1	5906675103983
R-WCS-63260 <sup>1)</sup>	260	100	100	16800	3.9	3.9	688.2	5906675104003	

1) ETA-09/0346