

K-SR Throughbolt

Throughbolt for non-cracked concrete



Product information

Features and benefits

- High quality with cost effectiveness
- Cold formed body ensures consistent dimensional accuracy
- K-SR is suitable for reduced embedment to avoid contact with reinforcement
- Embedment depth markings help to ensure precise installation of the anchor

Applications

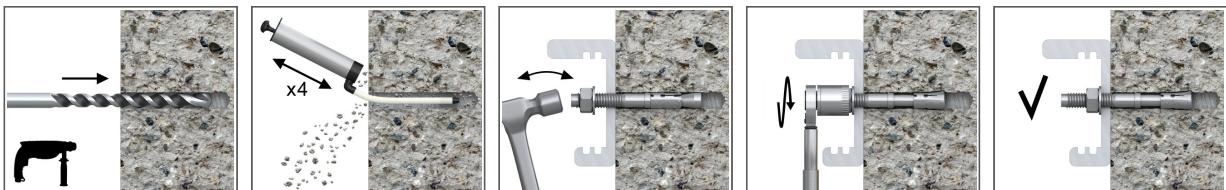
- Balustrading
- Barriers
- Handrails
- Racking
- Structural steel
- Bollards

Base materials

Suitable for use in

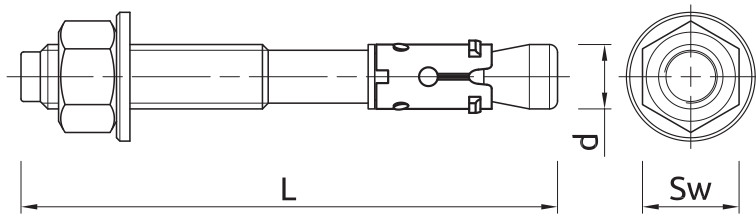
- Concrete

Installation guide

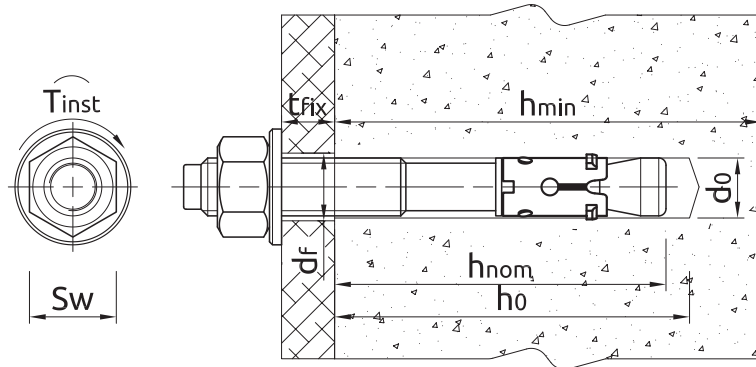


1. Drill a hole of required diameter and depth
2. Clear the hole of drilling dust and debris (using blowpump or equivalent method)
3. Lightly tap the throughbolt through the fixture into hole with a hammer, until fixing depth is reached
4. Tighten to the recommended torque

Product information



Installation data



Size			M8	M10	M12	M16
Thread diameter	d	[mm]	8	10	12	16
Hole diameter in substrate	d ₀	[mm]	8	10	12	16
Installation torque	T _{inst}	[Nm]	15	30	50	100
Wrench size	Sw	[mm]	13	17	19	24
STANDARD EMBEDMENT DEPTH						
Min. hole depth in substrate	h _{0,s}	[mm]	60	65	85	105
Min. installation depth	h _{nom,s}	[mm]	55	59	80	100
Min. substrate thickness	h _{min,s}	[mm]	100	100	136	170
Min. spacing	s _{min,s}	[mm]	71	74	136	170
Min. edge distance	c _{min,s}	[mm]	71	74	136	170
REDUCED EMBEDMENT DEPTH						
Min. hole depth in substrate	h _{0,r}	[mm]	45	55	65	85
Min. installation depth	h _{nom,r}	[mm]	40	49	60	80
Min. substrate thickness	h _{min,r}	[mm]	100	100	100	130
Min. spacing	s _{min,r}	[mm]	48	59	96	130
Min. edge distance	c _{min,r}	[mm]	48	59	96	130

Basic performance data

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

Size		M08	M10	M12	M16
Standard embedment depth h _{ef}	[mm]	47.00	49.00	68.00	85.00
Reduced embedment depth h _{ef}	[mm]	32.00	39.00	48.00	65.00
CHARACTERISTIC LOAD					
TENSION LOAD N _{Rk}					
Standard embedment depth	[kN]	6.00	9.00	16.00	25.00
Reduced embedment depth	[kN]	6.00	9.00	9.00	16.00
SHEAR LOAD V _{Rk}					
Standard embedment depth	[kN]	6.00	9.00	25.29	47.40
Reduced embedment depth	[kN]	6.00	9.00	9.00	47.40

Basic performance data

Size		M08	M10	M12	M16
DESIGN LOAD					
TENSION LOAD N_{Rd}					
Standard embedment depth	[kN]	2.38	3.57	6.35	9.92
Reduced embedment depth	[kN]	2.38	3.57	3.57	6.35
SHEAR LOAD V_{Rd}					
Standard embedment depth	[kN]	4.80	7.20	20.23	37.92
Reduced embedment depth	[kN]	4.80	7.20	7.20	37.92