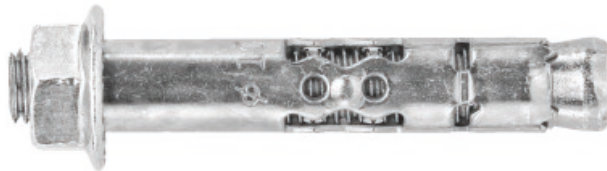


R-RLK-P Rawlok - Bolt Projecting

All purpose expansion anchor for use in medium weight applications



Product information

Features and benefits

- Medium weight applications anchor
- Anchor designed for optimum performance in most base materials
- Integral collapse feature to ensure maximum clamping force is applied to the fixture
- Bolt and drill size marked on sleeve for accurate installation

Applications

- Radiators
- Signs
- Stadium seating
- Satellite dishes
- Wall plates
- Shutter
- Garage doors

Base materials

Approved for use in:

- Non-cracked concrete C20/25-C50/60
- Solid Brick
- Reinforced concrete

Also suitable for use in:

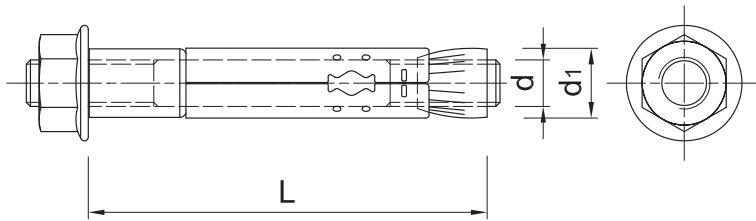
- Natural Stone (after site testing)

Installation guide



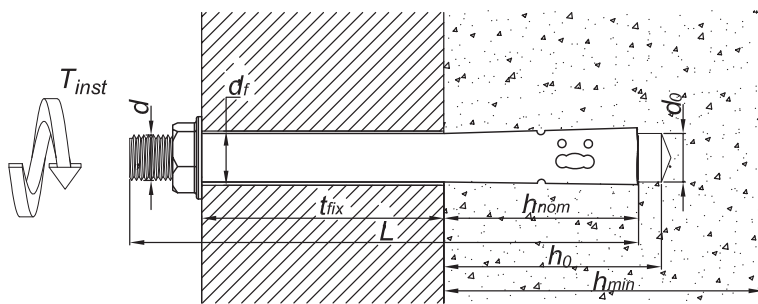
1. Drill a hole of required diameter and depth. Note: When fixing into brickwork, mortar joints should be avoided
2. Remove debris and thoroughly clean hole with brush and pum
3. Insert Rawlock through the fixture into the hole
4. Tighten to the recommended torque

Product information



Size	Product Code	Anchor		Fixture	
		Diameter	Length	Max. thickness	Hole diameter
		d [mm]	L [mm]	t_{fix} [mm]	d_f [mm]
M6	R-RLK-P-06040	6	40	10	10
	R-RLK-P-06065	6	65	35	10
M8	R-RLK-P-08075	8	75	36	12
	R-RLK-P-08095	8	95	55	12
M10	R-RLK-P-10100	10	100	50	14
	R-RLK-P-10130	10	130	80	14

Installation data



Size			M6	M8	M10
Thread diameter	d	[mm]	6	8	10
Hole diameter in substrate	d_0	[mm]	8	10	12
Installation torque (Concrete)	T_{inst}	[Nm]	6	11	22
Installation torque (Blockwork 14.0MPa)	T_{inst}	[Nm]	3	6	11
Installation torque (Blockwork 7.0MPa)	T_{inst}	[Nm]	2	4	8
Min. hole depth in substrate	h_0	[mm]	35	45	55
Min. installation depth	h_{nom}	[mm]	35	45	55
Min. substrate thickness	h_{min}	[mm]	55	65	85
Min. spacing	s_{min}	[mm]	50	60	70
Min. edge distance	c_{min}	[mm]	50	60	70

Basic performance data

Performance data for single anchor without influence of edge distance and spacing - ETAG 001

Size		M6	M8	M10
NON-CRACKED CONCRETE				
Effective embedment depth h_{ef}	[mm]	26.00	36.00	43.00
BLOCKWORK 7.0MPa				
Effective embedment depth h_{ef}	[mm]	26.00	36.00	43.00

Basic performance data

Size		M6	M8	M10
CHARACTERISTIC LOAD				
TENSION LOAD N_{Rk}				
NON-CRACKED CONCRETE	[kN]	6.90	9.30	11.40
BLOCKWORK 7.0MPA	[kN]	2.40	3.50	4.50
SHEAR LOAD V_{Rk}				
NON-CRACKED CONCRETE	[kN]	5.40	9.00	12.60
BLOCKWORK 7.0MPA	[kN]	2.50	2.70	3.10
DESIGN LOAD				
TENSION LOAD N_{Rd}				
NON-CRACKED CONCRETE	[kN]	3.19	4.31	5.28
BLOCKWORK 7.0MPA	[kN]	1.11	1.62	2.08
SHEAR LOAD V_{Rd}				
NON-CRACKED CONCRETE	[kN]	3.00	5.00	7.00
BLOCKWORK 7.0MPA	[kN]	1.39	1.50	1.72
RECOMMENDED LOAD				
TENSION LOAD N_{rec}				
NON-CRACKED CONCRETE	[kN]	2.28	3.08	3.77
BLOCKWORK 7.0MPA	[kN]	0.79	1.16	1.49
SHEAR LOAD V_{rec}				
NON-CRACKED CONCRETE	[kN]	2.14	3.57	5.00
BLOCKWORK 7.0MPA	[kN]	0.99	1.07	1.23

Design performance data

Size		M6	M8	M10
Effective embedment depth	h_{ef} [mm]	26.00	36.00	43.00
TENSION LOAD				
PULL-OUT FAILURE; NON-CRACKED CONCRETE C20/25				
Characteristic resistance	$N_{Rk,p}$ [kN]	6.90	9.30	11.40
Design resistance $\gamma_M^* = 2.16$	$N_{Rd,p}$ [kN]	3.19	4.31	5.28
PULL-OUT FAILURE; BLOCKWORK 7.0MPA				
Characteristic resistance	$N_{Rk,p}$ [kN]	2.40	3.50	4.50
Design resistance $\gamma_M^* = 2.16$	$N_{Rd,p}$ [kN]	1.11	1.62	2.08
PULL-OUT FAILURE; BLOCKWORK 14.0MPA				
Characteristic resistance	$N_{Rk,p}$ [kN]	3.20	4.50	5.60
Design resistance $\gamma_M^* = 2.16$	$N_{Rd,p}$ [kN]	1.48	2.08	2.59
PULL-OUT FAILURE; BLOCKWORK 20.5MPA				
Characteristic resistance	$N_{Rk,p}$ [kN]	3.70	5.00	6.00
Design resistance $\gamma_M^* = 2.16$	$N_{Rd,p}$ [kN]	1.71	2.31	2.78
SHEAR LOAD				
NON-CRACKED CONCRETE C20/25				
Characteristic resistance	V_{Rk} [kN]	5.40	9.00	12.60
Design resistance $\gamma_{Mc} = 1.8$	V_{Rd} [kN]	3.00	5.00	7.00
BLOCKWORK 7.0MPA				
Characteristic resistance	V_{Rk} [kN]	2.50	2.70	3.10
Design resistance $\gamma_{Mc} = 1.8$	V_{Rd} [kN]	1.39	1.50	1.72
BLOCKWORK 14.0MPA				
Characteristic resistance	V_{Rk} [kN]	5.20	8.60	10.30
Design resistance $\gamma_{Mc} = 1.8$	V_{Rd} [kN]	2.89	4.78	5.72
BLOCKWORK 20.5MPA				
Characteristic resistance	V_{Rk} [kN]	5.20	8.60	10.30
Design resistance $\gamma_{Mc} = 1.8$	V_{Rd} [kN]	2.89	4.78	5.72

Product commercial data

Size	Product Code	Anchor		Quantity [pcs]			Weight [kg]			Bar Codes
		Diameter [mm]	Length [mm]	Box	Outer	Pallet	Box	Outer	Pallet	
M6	R-RLK-P-06040	6	40	100	100	18000	1.80	1.80	354.0	5010445695087
	R-RLK-P-06065	6	65	50	50	9000	1.30	1.30	264.0	5010445695100
M8	R-RLK-P-08075	8	75	50	50	15000	2.4	2.4	750.0	5010445695162
	R-RLK-P-08095	8	95	25	25	7500	1.53	1.53	487.5	5010445695186
M10	R-RLK-P-10100	10	100	10	10	3000	0.90	0.90	298.8	5010445695247
	R-RLK-P-10130	10	130	10	10	3000	1.14	1.14	372.0	5010445695254