R-RBL-E RAWLBOLT® - EYE BOLT

World's most popular all-purpose expanding shield anchor - eye bolt version

FEATURES AND BENEFITS

The only original Rawlbolt with single-piece cold-formed eyebolt for maximum durability.

Three-pieces expanding sleeve of maximum expansion provides optimal load and safety of use in any substrate.

Eye Rawlbolts are not suitable for all arrest systems nor shock loading.

Closed, forged hook for maximum safety.

SUBSTRATES

- Cracked concrete C20/25-C50/60
- Non-cracked concrete C20/25-C50/60
- Unreinforced concrete
- Reinforced concrete
- Hollow-core slab C20/25
- Hollow-core slab C30/37-C50/60
- Solid clay brick ≥ 20MPa
- Hollow lightweight concrete block LAC 5 ≥ 5MPa

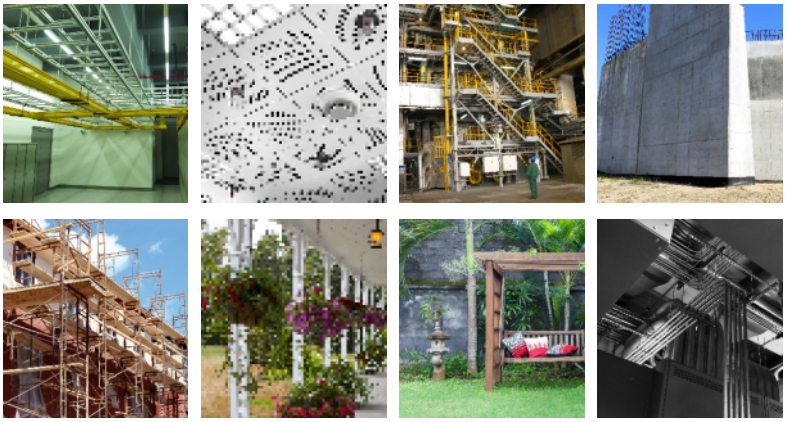


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APPLICATIONS

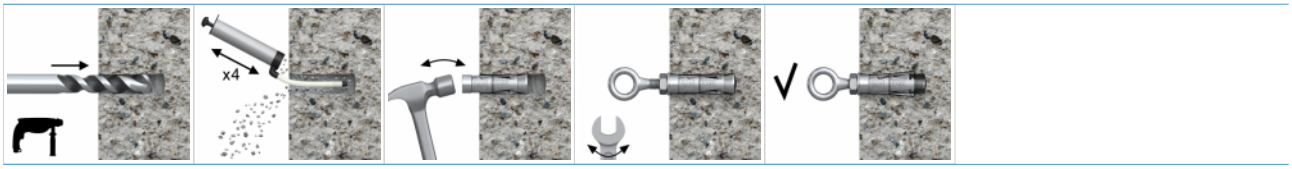
- Concrete structures
- Steel structures
- Swings
- Construction work





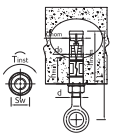
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INSTALLATION GUIDE



1. Drill a hole of required diameter and depth.
2. Remove pre-assembled bolt and washer. Insert shield into hole and tap home with hammer until flush with surface.
3. Insert bolt with washer through fixture into the shield.
4. Insert bolt through fixture and tighten to the recommended torque.

INSTALLATION DATA



1) According to table with basic performance data

Size			M6	M8	M10	M12
Thread diameter	d	[mm]	6	8	10	12
Hole diameter in substrate	d_0	[mm]	12	14	16	20
Installation torque	T_{inst}	[Nm]	6,5	15	27	50
Wrench size	Sw	[mm]	10	13	17	19
Min. hole depth in substrate	h_0	[mm]	50	55	65	85
Min. installation depth	h_{nom}	[mm]	45	50	60	80
Concrete substrates						
Min. substrate thickness	h_{min}	[mm]	100	100	100	100
Min. spacing	s_{min}	[mm]	35	40	50	60
Min. edge distance	c_{min}	[mm]	52,5	60	75	90
Solid ceramic brick, light concrete, silicate blocks						
Min. substrate thickness	h_{min}	[mm]	100	100	100	100
Min. spacing	s_{min}	[mm]	100	100	100	100
Min. edge distance	c_{min}	[mm]	100	100	100	100
Teriva concrete floor blocks, concrete hollow-core slabs						
Min. substrate thickness	h_{min}	[mm]	1)	1)	1)	1)
Min. spacing	s_{min}	[mm]	100	100	100	100
Min. edge distance	c_{min}	[mm]	100	100	100	100

BASIC PERFORMANCE DATA

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

Size			M6	M8	M10	M12
Nominal embedment depth	h_{nom}	[mm]	45	50	60	80
CHARACTERISTIC RESISTANCE						
TENSION AND SHEAR LOAD F_{Rk}						
CRACKED AND UNCRACKED CONCRETE C20/25 - C50/60						
Uncracked concrete C20/25 - C50/60	-	[kN]	6,00	7,50	12,00	16,00
Cracked concrete C20/25 - C50/60	-	[kN]	4,00	5,00	6,00	12,00
CONCRETE HOLLOW CORE SLAB C20/25						
Min. wall thickness 50 mm	-	[kN]	6,50	8,50	8,50	8,50
CONCRETE HOLLOW CORE SLAB C30/37						
Min. wall thickness 23 mm	-	[kN]	4,00	5,00	-	-
Min. wall thickness 35 mm	-	[kN]	6,50	11,00	16,00	-
Min. wall thickness 40 mm	-	[kN]	6,50	13,00	19,00	22,00

R-RBL-E RAWLBOLT® - EYE BOLT

Size			M6	M8	M10	M12
CONCRETE HOLLOW CORE SLAB C35/45						
Min. wall thickness 23 mm	-	[kN]	4,50	6,00	-	-
Min. wall thickness 35 mm	-	[kN]	6,50	12,00	17,00	-
Min. wall thickness 40 mm	-	[kN]	6,50	13,00	19,00	22,00
CONCRETE HOLLOW CORE SLAB C45/55						
Min. wall thickness 23 mm	-	[kN]	5,00	6,50	-	-
Min. wall thickness 35 mm	-	[kN]	6,50	13,00	19,00	-
Min. wall thickness 40 mm	-	[kN]	6,50	13,00	19,00	22,00
CONCRETE HOLLOW CORE SLAB C50/60						
Min. wall thickness 23 mm	-	[kN]	5,50	7,00	-	-
Min. wall thickness 35 mm	-	[kN]	6,50	13,00	19,00	-
Min. wall thickness 40 mm	-	[kN]	6,50	13,00	19,00	22,00
TERIVA CONCRETE FLOOR BLOCK						
Min. wall thickness 25 mm	-	[kN]	1,20	2,00	-	-
MASONRY SUBSTRATES						
Solid ceramic brick cl. 20	-	[kN]	6,00	6,00	6,00	6,00
Aggregate concrete, lightweight (LAC 5)	-	[kN]	5,50	5,50	5,50	5,50
DESIGN RESISTANCE						
TENSION AND SHEAR LOAD F_{Rd}						
CRACKED AND UNCRACKED CONCRETE C20/25 - C50/60						
Uncracked concrete C20/25 - C50/60	-	[kN]	3,33	4,17	6,67	8,89
Cracked concrete C20/25 - C50/60	-	[kN]	2,22	2,78	3,33	6,67
CONCRETE HOLLOW CORE SLAB C20/25						
Min. wall thickness 50 mm	-	[kN]	3,61	4,72	4,72	4,72
CONCRETE HOLLOW CORE SLAB C30/37						
Min. wall thickness 23 mm	-	[kN]	2,22	2,78	-	-
Min. wall thickness 35 mm	-	[kN]	3,61	6,11	8,89	-
Min. wall thickness 40 mm	-	[kN]	3,61	7,22	10,56	12,22
CONCRETE HOLLOW CORE SLAB C35/45						
Min. wall thickness 23 mm	-	[kN]	2,50	3,33	-	-
Min. wall thickness 35 mm	-	[kN]	3,61	6,67	9,44	-
Min. wall thickness 40 mm	-	[kN]	3,61	7,22	10,56	12,22
CONCRETE HOLLOW CORE SLAB C45/55						
Min. wall thickness 23 mm	-	[kN]	2,78	3,61	-	-
Min. wall thickness 35 mm	-	[kN]	3,61	7,22	10,56	-
Min. wall thickness 40 mm	-	[kN]	3,61	7,22	10,56	12,22
CONCRETE HOLLOW CORE SLAB C50/60						
Min. wall thickness 23 mm	-	[kN]	3,06	3,89	-	-
Min. wall thickness 35 mm	-	[kN]	3,61	7,22	10,56	-
Min. wall thickness 40 mm	-	[kN]	3,61	7,22	10,56	12,22
TERIVA CONCRETE FLOOR BLOCK						
Min. wall thickness 25 mm	-	[kN]	0,67	1,11	-	-
MASONRY SUBSTRATES						
Solid ceramic brick cl. 20	-	[kN]	2,40	2,40	2,40	2,40
Aggregate concrete, lightweight (LAC 5)	-	[kN]	2,20	2,20	2,20	2,20
RECOMMENDED LOAD						
TENSION AND SHEAR LOAD F_{rec}						
CRACKED AND UNCRACKED CONCRETE C20/25 - C50/60						
Uncracked concrete C20/25 - C50/60	-	[kN]	2,38	2,98	4,76	6,35
Cracked concrete C20/25 - C50/60	-	[kN]	1,59	1,98	2,38	4,76
CONCRETE HOLLOW CORE SLAB C20/25						
Min. wall thickness 50 mm	-	[kN]	2,58	3,37	3,37	3,37
CONCRETE HOLLOW CORE SLAB C30/37						
Min. wall thickness 23 mm	-	[kN]	1,59	1,98	-	-
Min. wall thickness 35 mm	-	[kN]	2,58	4,37	6,35	-
Min. wall thickness 40 mm	-	[kN]	2,58	5,16	7,54	8,73
CONCRETE HOLLOW CORE SLAB C35/45						
Min. wall thickness 23 mm	-	[kN]	1,79	2,38	-	-
Min. wall thickness 35 mm	-	[kN]	2,58	4,76	6,75	-
Min. wall thickness 40 mm	-	[kN]	2,58	5,16	7,54	8,73
CONCRETE HOLLOW CORE SLAB C45/55						
Min. wall thickness 23 mm	-	[kN]	1,98	2,58	-	-
Min. wall thickness 35 mm	-	[kN]	2,58	5,16	7,54	-
Min. wall thickness 40 mm	-	[kN]	2,58	5,16	7,54	8,73
CONCRETE HOLLOW CORE SLAB C50/60						
Min. wall thickness 23 mm	-	[kN]	2,18	2,78	-	-
Min. wall thickness 35 mm	-	[kN]	2,58	5,16	7,54	-
Min. wall thickness 40 mm	-	[kN]	2,58	5,16	7,54	8,73
TERIVA CONCRETE FLOOR BLOCK						

R-RBL-E RAWLBOLT® - EYE BOLT

Size			M6	M8	M10	M12
Min. wall thickness 25 mm	-	[kN]	0,48	0,79	-	-
MASONRY SUBSTRATES						
Solid ceramic brick cl. 20	-	[kN]	1,71	1,71	1,71	1,71
Aggregate concrete, lightweight (LAC 5)	-	[kN]	1,57	1,57	1,57	1,57

LOGISTICAL DATA

SKU	Base-sales unit	Unit pack	Bulk pack	Pallet	Single Package - Gross Weight	Bulk Package - Gross Weight	Palette - Gross Weight	Barcode
R-RBL-06EW	pcs.	25.0	400.0	16000.0	0.9	14.7	599.7	5906675283128
R-RBL-08EW	pcs.	25.0	200.0	8000.0	1.6	12.8	527.4	5906675283142
R-RBL-10EW	pcs.	25.0	25.0	4000.0	2.9	2.9	462.2	5906675283166
R-RBL-12EW	pcs.	25.0	25.0	3000.0	5.2	5.2	647.8	5906675283180
R-S1-RBL-06E/2	pack	5.0	30.0	2640.0	0.0	0.0	0.0	5906675094144
R-S1-RBL-08E/2	pack	5.0	25.0	3000.0	0.7	3.5	414.0	5906675094199
R-S1-RBL-12E/2	pack	5.0	20.0	1760.0	0.0	0.0	0.0	5906675094243

RELATED PRODUCTS

SAFETY

Protective gloves for power tools
R-PGL



DRILLING

Rotary Hammer Drill SDS plus; 850W; 26mm; 2.5J
R-PRH-26850



Cordless Hammer 18V SDS plus
R-PRH18



Drill bits Aggressor SDS plus
RT-SDSA



Drill bits Rebardrill SDS plus
RT-SDSR

CLEANING

Blow Pump
R-BLOWPUMP



ANCHORING

Torque wrench 20-100 Nm 1/2"
R-HTW-20-100



Hammer
RT-HAM-0500



MECHANICAL ANCHOR SETTING TOOL SDS PLUS
RT-SDSI-MA

