RAWLPLUG R-HLX

Self-tapping concrete screwbolt

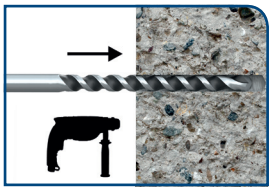
SUITABLE FOR USE IN:
- Non-cracked concrete min. C20/25
- Reinforced and unreinforced concrete
- Brick & blockwork
- High density natural stone

Trust & Innovation. Since 1919.

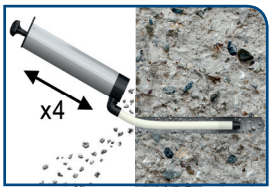
INSTALLATION DATA

Size			∅ 6.3	∅ 7.5	∅ 10	∅ 12.5	∅ 17
Thread diameter	d	[mm]	6.3	7.5	10	12.5	17
Hole diameter in substrate	d_0	[mm]	5	6	8	10	14
Installation torque (Recommended)*	T_{inst}	[mm]	15	25	50	100	200
STANDARD EMBEDMENT DEPTH							
Min. hole depth in substrate	h_0	[mm]	50	65	80	95	130
Installation depth	h_{nom}	[mm]	40	55	70	85	120
Min. substrate thickness	h_{min}	[mm]	100	100	110	130	190
Min. spacing	s_{min}	[mm]	30	35	40	55	80
Min. edge distance	c_{min}	[mm]	30	35	40	55	80
REDUCED EMBEDMENT DEPTH							
Min. hole depth in substrate	h_0	[mm]	35	50	60	65	85
Installation depth	h_{nom}	[mm]	25	40	50	55	75
Min. substrate thickness	h_{min}	[mm]	100	100	100	100	120
Min. spacing	s_{min}	[mm]	30	35	50	70	120
Min. edge distance	c_{min}	[mm]	30	35	50	70	110

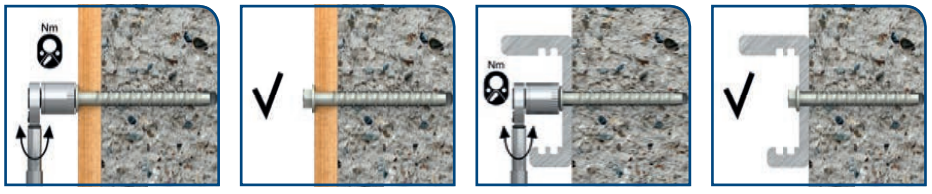
** Valid for concrete min. C20/25*



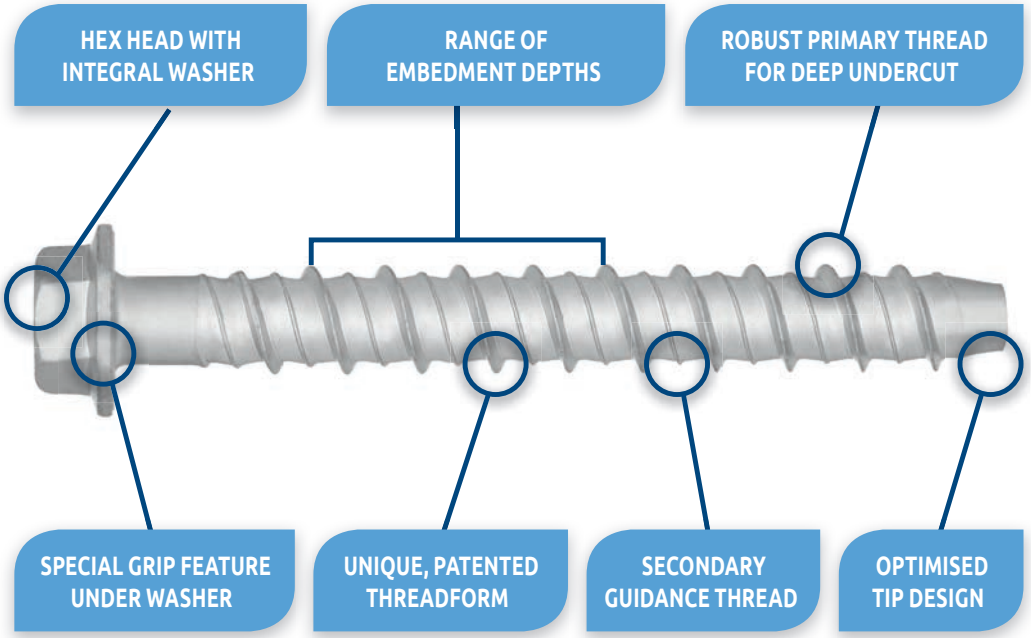
Drill a hole of required diameter and depth.



Remove debris and thoroughly clean hole with brush and pump.



Insert anchor through fixture and screw in to hole, until installation depth is reached and fixture is secure. Recommended installation torque may be used as a guideline (for use in concrete).



BENEFITS:

TIME-EFFICIENT INSTALLATION
- Streamlined procedure – Simply drill and drive
- Compatible with impact wrench power tools
- Instant clamping with minimal effort

UNDERCUT ANCHOR TECHNOLOGY
- High performance for relatively small hole diameter
- Non-expansion functioning – Low risk of damage to base material
- Ideal for installation near edges and adjacent anchors

ATTRACTIVE ANCHORAGES
- Integral washer ensures a neat overall appearance
- Special zinc flake corrosion-resistant coating

VERSATILE SOLUTIONS
- Performance data at two embedment depths
- Completely removable
- Extended range of head types under development

APPLICATIONS:
- Through-fixing
- Temporary anchorages
- Formwork supports
- Balustrading & handrails
- Fencing & gates
- Racking systems
- Public seating
- Scaffolding

AVAILABLE SIZES

Product Code	Hole diameter in substrate	Anchor			Fixture		
		Thread diameter	Length	Thread length	Max. thickness		Hole diameter
					Standard embedment	Reduced embedment	
	d_0	d	L	L_G	$t_{fix,s}$	$t_{fix,r}$	d_f
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
R-HLX-6x50	5	6.3	50	40	10	25	7
R-HLX-7x60	6	7.5	60	55	5	20	9
R-HLX-10x75	8	10	75	70	5	25	12
R-HLX-12x65	10	12.5	65	55	-	10	14
R-HLX-12x85		12.5	85	75	-	30	14
R-HLX-12x100		12.5	100	90	15	45	14
R-HLX-17x135	14	17	135	120	15	60	18

BASIC PERFORMANCE DATA

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

Substrate		NON-CRACKED CONCRETE C20/25				
Size		∅ 6.3	∅ 7.5	∅ 10	∅ 12.5	∅ 17
MEAN ULTIMATE LOAD $N_{Ru,m}$						
Standard embedment depth	[kN]	11.3	18.9	21.5	27.0	42.8
Reduced embedment depth	[kN]	4.7	8.5	12.3	15.0	21.3
CHARACTERISTIC LOAD N_{Rk}						
Standard embedment depth	[kN]	3.8	9.0	13.4	20.0	31.7
Reduced embedment depth	[kN]	2.1	5.0	8.8	12.0	17.1
DESIGN LOAD N_{Rd}						
Standard embedment depth	[kN]	2.1	5.0	9.0	13.3	21.1
Reduced embedment depth	[kN]	1.0	2.4	4.2	5.7	8.1
RECOMMENDED LOAD N_{rec}*						
Standard embedment depth	[kN]	1.5	3.6	6.4	9.5	15.1
Reduced embedment depth	[kN]	0.7	1.7	3.0	4.1	5.8

** Partial safety factor 1.4*