R-HLX-HF

INDUCTION HARDENED CONCRETE SCREW ANCHOR

Induction hardened concrete screw anchor with hex head

FEATURES AND BENEFITS

The new thread geometry with additional cutting teeth ensures quick and easy installation, also in reinforced concrete C20/25 - C50/60.

Fire resistance R30-R120.

R-HLX concrete screws can be used in earthquake-prone zones - seismic category C1 and C2.

Special anti-corrosion zinc flake coating for increased corrosion resistance.

Possibility of installation near the edge of concrete and at short distances from adjacent screws.

Polish production guarantees the highest precision of workmanship and its repeatability.

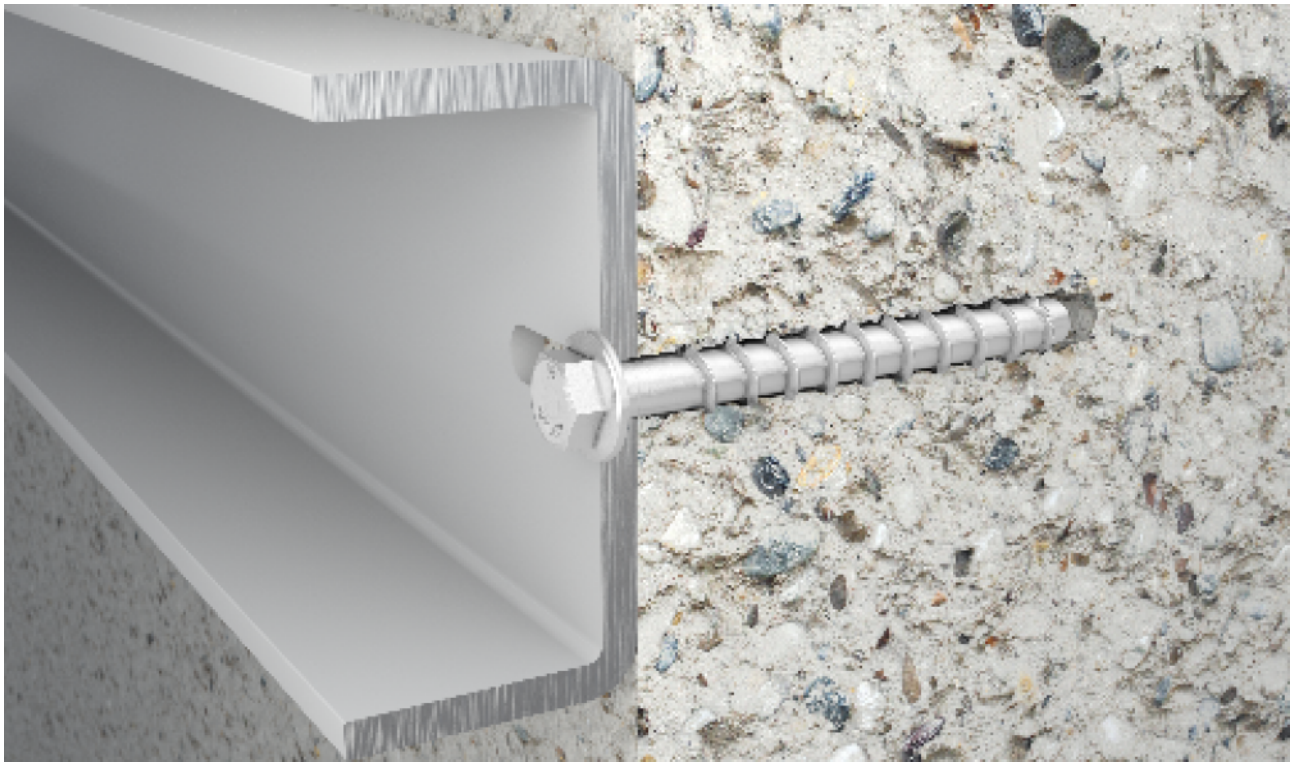
Possibility of disassembly and repeated use after verifying thread wear with a tester.

The highest parameters in cracked and uncracked concrete C20/25 - C50/60 confirmed in the ETA.

SUBSTRATES

- Cracked concrete C20/25-C50/60
- Non-cracked concrete C20/25-C50/60
- Unreinforced concrete
- Reinforced concrete
- High-density natural stone

R-HLX-HF INDUCTION HARDENED CONCRETE SCREW ANCHOR

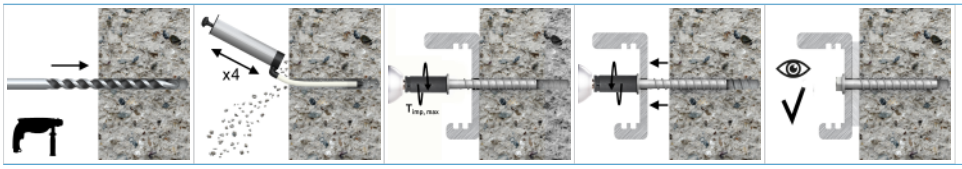


APPLICATIONS

- Poles and road signs
- Roads and bridges
- Sanitary and gas installations
- Scaffolding
- Seats in public facilities
- Steel structures
- Storage racks

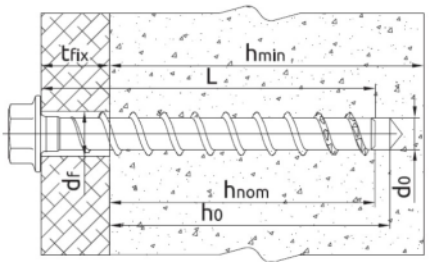
United Arab Emirates, Dubai

INSTALLATION GUIDE



1. Drill the hole with a hammer drill (1a) or a dust-free drill (1b) to the required depth according to the table.
2. Clean the hole (blow dust at least 4 times with the hand pump). When using a dust-free drill bit (1b), it is not necessary to clean the hole.
3. Screw the concrete screw into the hole with an impact wrench and a suitable impact socket. Tighten until the fixture is clamped to the substrate. Installation with any tangential impact wrench.
4. Finish screwing when the screw head touches the fastened element/substrate. The screw head must not be damaged.
5. Possibility to unscrew the fixed anchor to a maximum height of 10mm. In the adjustment process, the permissible thickness of the fastened elements (Tfix) must be observed.
6. Adjust the element and tighten until the fixture is clamped to the substrate. Installation with any impact wrench with tangential impact.
7. Finish screwing when the anchor touches the fastened element. The adjustment operation can be performed twice.

INSTALLATION DATA



Size			6	8	10	12	14
Thread diameter	d	[mm]	7,9	10,4	12,7	14,9	16,9
Hole diameter in substrate	d_0	[mm]	6	8	10	12	14
Hole diameter in fixture	d_f	[mm]	9	12	14	16	18
Wrench size	Sw	[mm]	10	13	15	17	21
External diameter of washer	d	[mm]	14,2	18,5	21,0	26,6	31,7
Max. torque for impact screw driver	$T_{imp,max}$	[Nm]	250	350	650	1000	1000
STANDARD EMBEDMENT DEPTH							
Min. hole depth in substrate	$h_{0,s}$	[mm]	65	85	95	110	125
Real hole depth in substrate	h_0	[mm]	L+10-t_{fix}	L+10-t_{fix}	L+10-t_{fix}	L+10-t_{fix}	L+10-t_{fix}
Min. installation depth	$h_{nom,s}$	[mm]	55	70	85	100	115
Min. substrate thickness	$h_{min,s}$	[mm]	80	110	130	155	190
Min. edge distance	c_{min}	[mm]	35	35	60	80	100
Min. spacing	s_{min}	[mm]	35	35	60	80	100
REDUCED EMBEDMENT DEPTH							
Min. hole depth in substrate	$h_{0,r}$	[mm]	50	70	85	90	95
Real hole depth in substrate	h_0	[mm]	L+10-t_{fix}	L+10-t_{fix}	L+10-t_{fix}	L+10-t_{fix}	L+10-t_{fix}
Min. installation depth	$h_{nom,r}$	[mm]	40	60	75	80	85
Min. substrate thickness	$h_{min,r}$	[mm]	80	110	120	130	130
Min. edge distance	c_{min}	[mm]	35	35	60	80	100
Min. spacing	s_{min}	[mm]	35	35	60	80	100
MINIMUM EMBEDMENT DEPTH							
Min. hole depth in substrate	$h_{0,r}$	[mm]	45	60	65	70	75
Real hole depth in substrate	h_0	[mm]	L+10-t_{fix}	L+10-t_{fix}	L+10-t_{fix}	L+10-t_{fix}	L+10-t_{fix}
Min. installation depth	$h_{nom,r}$	[mm]	35	50	55	60	65
Min. substrate thickness	$h_{min,r}$	[mm]	80	110	100	110	110
Min. edge distance	c_{min}	[mm]	35	35	60	80	100
Min. spacing	s_{min}	[mm]	35	35	60	80	100

MECHANICAL PROPERTIES

Size			6	8	10	12	14
Nominal ultimate tensile strength - tension	f_{uk}	[N/mm²]	800	800	800	800	800
Nominal yield strength	f_{yk}	[N/mm²]	640	640	640	640	640
Cross sectional area	A_s	[mm²]	24,6	44,2	67,9	103,9	138,9
Elastic section modulus	W_{el}	[mm³]	17,24	41,42	75,97	149,31	230,97
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	16,6	39,8	75,8	143,3	221,7
Design bending resistance	M	[Nm]	13,2	31,8	60,6	114,7	177,4

BASIC PERFORMANCE DATA

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

Size			6	8	10	12	14
Standard embedment depth	h_{nom}	[mm]	55	70	85	100	115
Reduced embedment depth	h_{nom}	[mm]	40	60	75	80	85
Minimum embedment depth	h_{nom}	[mm]	35	50	55	60	65
MEAN ULTIMATE RESISTANCE							
TENSION LOAD $N_{Ru,m}$							
UNCRACKED CONCRETE							
Standard embedment depth	-	[kN]	18,99	26,34	37,85	48,30	59,56
Reduced embedment depth	-	[kN]	11,09	19,03	30,59	33,75	36,19
Minimum embedment depth	-	[kN]	8,32	16,44	18,37	21,06	23,15
CRACKED CONCRETE							
Standard embedment depth	-	[kN]	10,88	12,24	26,64	33,99	41,92
Reduced embedment depth	-	[kN]	7,11	11,59	21,53	23,75	25,47
Minimum embedment depth	-	[kN]	4,02	9,86	12,93	14,82	16,29
SHEAR LOAD $V_{Ru,m}$							
UNCRACKED CONCRETE							
Standard embedment depth	-	[kN]	10,67	19,47	29,92	45,76	61,16
Reduced embedment depth	-	[kN]	10,67	19,47	29,92	45,76	61,16
Minimum embedment depth	-	[kN]	8,95	16,44	18,37	42,12	46,31
CRACKED CONCRETE							
Standard embedment depth	-	[kN]	10,67	19,47	29,92	45,76	61,16
Reduced embedment depth	-	[kN]	7,81	19,47	29,92	45,76	50,94
Minimum embedment depth	-	[kN]	6,30	11,57	12,93	29,64	32,59
CHARACTERISTIC RESISTANCE							
TENSION LOAD N_{Rk}							
UNCRACKED CONCRETE							
Standard embedment depth	-	[kN]	13,80	20,60	27,58	35,20	43,40
Reduced embedment depth	-	[kN]	8,00	13,87	22,29	24,60	26,38
Minimum embedment depth	-	[kN]	4,50	11,90	13,39	15,35	16,87
CRACKED CONCRETE							
Standard embedment depth	-	[kN]	3,50	11,00	19,30	24,60	30,39
Reduced embedment depth	-	[kN]	2,00	9,00	15,60	17,20	18,46
Minimum embedment depth	-	[kN]	2,00	8,00	9,37	10,70	11,80
SHEAR LOAD V_{Rk}							
UNCRACKED CONCRETE							
Standard embedment depth	-	[kN]	9,70	17,70	27,20	41,60	55,60
Reduced embedment depth	-	[kN]	8,08	17,70	27,20	41,60	52,75
Minimum embedment depth	-	[kN]	6,52	11,98	13,39	30,70	33,75
CRACKED CONCRETE							
Standard embedment depth	-	[kN]	9,70	17,70	27,20	41,60	55,60
Reduced embedment depth	-	[kN]	5,66	17,70	27,20	34,44	36,93
Minimum embedment depth	-	[kN]	4,57	8,39	9,37	21,49	23,62
DESIGN RESISTANCE							
TENSION LOAD N_{Rd}							
UNCRACKED CONCRETE							
Standard embedment depth	-	[kN]	9,20	13,73	18,39	23,47	28,93
Reduced embedment depth	-	[kN]	5,33	9,25	14,86	16,40	17,58
Minimum embedment depth	-	[kN]	3,00	7,93	8,93	10,23	11,25
CRACKED CONCRETE							
Standard embedment depth	-	[kN]	2,33	7,33	12,87	16,40	20,26
Reduced embedment depth	-	[kN]	1,33	6,00	10,40	11,47	12,31
Minimum embedment depth	-	[kN]	1,33	5,33	6,25	7,13	7,87
SHEAR LOAD V_{Rd}							
UNCRACKED CONCRETE							
Standard embedment depth	-	[kN]	7,76	14,16	21,76	33,28	44,48
Reduced embedment depth	-	[kN]	5,39	14,16	21,76	32,80	35,17

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Size			6	8	10	12	14
Minimum embedment depth	-	[kN]	4,35	7,99	8,93	20,46	22,50
CRACKED CONCRETE							
Standard embedment depth	-	[kN]	6,47	14,16	21,76	32,85	40,52
Reduced embedment depth	-	[kN]	3,77	12,95	20,81	22,96	24,62
Minimum embedment depth	-	[kN]	3,04	5,59	6,25	14,32	15,75
RECOMMENDED LOAD							
TENSION LOAD N_{rec}							
UNCRACKED CONCRETE							
Standard embedment depth	-	[kN]	6,57	9,81	13,14	16,76	20,67
Reduced embedment depth	-	[kN]	3,81	6,61	10,62	11,71	12,56
Minimum embedment depth	-	[kN]	2,14	5,67	6,38	7,31	8,03
CRACKED CONCRETE							
Standard embedment depth	-	[kN]	1,67	5,24	9,19	11,71	14,47
Reduced embedment depth	-	[kN]	0,95	4,29	7,43	8,19	8,79
Minimum embedment depth	-	[kN]	0,95	3,81	4,46	5,10	5,62
SHEAR LOAD V_{rec}							
UNCRACKED CONCRETE							
Standard embedment depth	-	[kN]	5,54	10,11	15,54	23,77	31,77
Reduced embedment depth	-	[kN]	3,85	10,11	15,54	23,43	25,12
Minimum embedment depth	-	[kN]	3,11	5,71	6,38	14,62	16,07
CRACKED CONCRETE							
Standard embedment depth	-	[kN]	4,62	10,11	15,54	23,47	28,94
Reduced embedment depth	-	[kN]	2,69	9,25	14,86	16,40	17,58
Minimum embedment depth	-	[kN]	2,17	3,99	4,46	10,23	11,25

DESIGN PERFORMANCE DATA

Static loads

Size			6	6	6	8	8	8	10	10	10	12	12	12	14	14	14
Nominal embedment depth	h_{nom}	[mm]	35	40	55	50	60	70	55	75	85	60	80	100	65	85	115
Effective embedment depth	h_{ef}	[mm]	26	30	43	39	43	56	42	59	68	46	63	80	49	66	92
TENSION LOAD																	
STEEL FAILURE																	
Characteristic resistance	$N_{Rk,s}$	[kN]	19,4	19,4	19,4	35,4	35,4	35,4	54,3	54,3	54,3	83,1	83,1	83,1	111,1	111,1	111,1
Partial safety factor	γ_{MS}	[-]	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50
PULL-OUT FAILURE																	
Characteristic resistance in uncracked concrete C20/25	$N_{Rk,p,ucr}$	[kN]	4,5	8,0	13,8	11,9	16,3	20,6	13,4	22,3	27,6	15,4	24,6	35,2	16,9	26,4	43,4
Characteristic resistance in cracked concrete C20/25	$N_{Rk,p,cr}$	[kN]	2,0	2,0	3,5	8,0	9,0	11,0	9,4	15,6	19,3	10,7	17,2	24,6	11,8	18,5	30,4
Installation safety factor	γ_{inst}	[-]	1,0[1)]	1,0[1)]	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Increasing factors for concrete C30/37	Ψ_c	[-]	1,17	1,17	1,17	1,17	1,17	1,17	1,22	1,22	1,22	1,22	1,22	1,22	1,22	1,22	1,22
Increasing factors for concrete C40/50	Ψ_c	[-]	1,32	1,32	1,32	1,32	1,32	1,32	1,41	1,41	1,41	1,41	1,41	1,41	1,41	1,41	1,41
Increasing factors for concrete C50/60	Ψ_c	[-]	1,42	1,42	1,42	1,42	1,42	1,42	1,55	1,55	1,55	1,55	1,55	1,55	1,55	1,55	1,55
CONCRETE CONE FAILURE																	
Installation safety factor	γ_{inst}	[-]	1,0[1)]	1,0[1)]	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Factor for cracked concrete	$k_{cr,N}$	[-]	7,7	7,7	7,7	7,7	7,7	7,7	7,7	7,7	7,7	7,7	7,7	7,7	7,7	7,7	7,7
Factor for uncracked concrete	$k_{ucr,N}$	[-]	11,0	11,0	11,0	11,0	11,0	11,0	11,0	11,0	11,0	11,0	11,0	11,0	11,0	11,0	11,0
Spacing	$s_{cr,N}$	[mm]	78,0	90,0	129,0	117,0	129,0	168,0	126,0	177,0	204,0	138,0	189,0	240,0	147,0	198,0	276,0
Edge distance	$c_{cr,N}$	[mm]	39,0	45,0	64,5	58,5	64,5	84,0	63,0	88,5	102,0	69,0	94,5	120,0	73,5	99,0	138,0
CONCRETE SPLITTING FAILURE																	
Installation safety factor	γ_{inst}	[-]	1,0[1)]	1,0[1)]	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Spacing	$s_{cr,sp}$	[mm]	80,0	90,0	130,0	120,0	150,0	170,0	120,0	180,0	200,0	140,0	200,0	240,0	150,0	200,0	280,0
Edge distance	$c_{cr,sp}$	[mm]	40,0	45,0	65,0	60,0	75,0	85,0	60,0	90,0	100,0	70,0	100,0	120,0	75,0	100,0	140,0
SHEAR LOAD																	
STEEL FAILURE																	
Characteristic resistance without lever arm	$V_{Rk,s}$	[kN]	9,7	9,7	9,7	17,7	17,7	17,7	27,2	27,2	27,2	41,6	41,6	41,6	55,6	55,6	55,6
Ductility factor	k_7	[-]	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Characteristic resistance with lever arm	$M_{Rk,s}$	[Nm]	16,1	16,1	16,1	39,8	39,8	39,8	75,8	75,8	75,8	143,4	143,4	143,4	221,7	221,7	221,7
Partial safety factor	γ_{MS}	[-]	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25
CONCRETE PRY-OUT FAILURE																	
Factor	k	[-]	1,0	1,0	1,0	1,0	2,0	2,0	1,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0
Installation safety factor	γ_{inst}	[-]	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
CONCRETE EDGE FAILURE																	

R-HLX-HF INDUCTION HARDENED CONCRETE SCREW ANCHOR

Size			6	6	6	8	8	8	10	10	10	12	12	12	14	14	14
Effective length of anchor	ℓ_f	[mm]	35	40	55	50	60	70	55	75	85	60	80	100	65	85	115
Anchor diameter	d_{nom}	[mm]	6	6	6	8	8	8	10	10	10	12	12	12	14	14	14
Installation safety factor	γ_{inst}	[-]	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0

[1] Holes without cleaning γ_{inst} = 1,2

Resistance to tension and shear loads under fire exposure

Size			6	6	6	8	8	8	10	10	10	12	12	12	14	14	14
R (for EI) = 30 min																	
Nominal embedment depth	h_{nom}	[mm]	35	40	55	50	60	70	55	75	85	60	80	100	65	85	115
TENSION LOAD																	
STEEL FAILURE																	
Characteristic resistance	$N_{Rk,s}$	[kN]	1,8	1,8	1,8	3,8	3,8	3,8	6,6	6,6	6,6	11,4	11,4	11,4	15,2	15,2	15,2
PULL-OUT FAILURE																	
Characteristic resistance	$N_{Rk,p}$	[kN]	0,5	0,5	0,8	2,0	2,2	2,7	2,3	3,9	4,8	2,6	4,3	6,1	2,9	4,6	7,6
SHEAR LOAD																	
STEEL FAILURE																	
Characteristic resistance without lever arm	$V_{Rk,s}$	[kN]	1,8	1,8	1,8	3,8	3,8	3,8	6,6	6,6	6,6	11,4	11,4	11,4	15,2	15,2	15,2
Characteristic resistance with lever arm	$M_{Rk,s}$	[Nm]	1,5	1,5	1,5	4,3	4,3	4,3	9,3	9,3	9,3	19,7	19,7	19,7	30,4	30,4	30,4
R (for EI) = 60 min																	
Nominal embedment depth	h_{nom}	[mm]	35	40	55	50	60	70	55	75	85	60	80	100	65	85	115
TENSION LOAD																	
STEEL FAILURE																	
Characteristic resistance	$N_{Rk,s}$	[kN]	1,4	1,4	1,4	2,9	2,9	2,9	5,0	5,0	5,0	8,5	8,5	8,5	11,4	11,4	11,4
PULL-OUT FAILURE																	
Characteristic resistance	$N_{Rk,p}$	[kN]	0,5	0,5	0,8	2,0	2,2	2,7	2,3	3,9	4,8	2,6	4,3	6,1	2,9	4,6	7,6
SHEAR LOAD																	
STEEL FAILURE																	
Characteristic resistance without lever arm	$V_{Rk,s}$	[kN]	1,4	1,4	1,4	2,9	2,9	2,9	5,0	5,0	5,0	8,5	8,5	8,5	11,4	11,4	11,4
Characteristic resistance with lever arm	$M_{Rk,s}$	[Nm]	1,2	1,2	1,2	3,3	3,3	3,3	7,0	7,0	7,0	14,8	14,8	14,8	22,9	22,9	22,9
R (for EI) = 90 min																	
Nominal embedment depth	h_{nom}	[mm]	35	40	55	50	60	70	55	75	85	60	80	100	65	85	115
TENSION LOAD																	
STEEL FAILURE																	
Characteristic resistance	$N_{Rk,s}$	[kN]	1,0	1,0	1,0	2,0	2,0	2,0	3,4	3,4	3,4	5,7	5,7	5,7	7,6	7,6	7,6
PULL-OUT FAILURE																	
Characteristic resistance	$N_{Rk,p}$	[kN]	0,5	0,5	0,8	2,0	2,2	2,7	2,3	3,9	4,8	2,6	4,3	6,1	2,9	4,6	7,6
SHEAR LOAD																	
STEEL FAILURE																	
Characteristic resistance without lever arm	$V_{Rk,s}$	[kN]	1,0	1,0	1,0	2,0	2,0	2,0	3,4	3,4	3,4	5,7	5,7	5,7	7,6	7,6	7,6
Characteristic resistance with lever arm	$M_{Rk,s}$	[Nm]	0,8	0,8	0,8	2,3	2,3	2,3	4,8	4,8	4,8	9,9	9,9	9,9	15,3	15,3	15,3
R (for EI) = 120 min																	
Nominal embedment depth	h_{nom}	[mm]	35	40	55	50	60	70	55	75	85	60	80	100	65	85	115
TENSION LOAD																	
STEEL FAILURE																	
Characteristic resistance	$N_{Rk,s}$	[kN]	0,8	0,8	0,8	1,6	1,6	1,6	2,6	2,6	2,6	4,3	4,3	4,3	5,7	5,7	5,7
PULL-OUT FAILURE																	
Characteristic resistance	$N_{Rk,p}$	[kN]	0,4	0,4	0,7	1,6	1,8	2,2	1,8	3,1	3,8	2,1	3,4	4,9	2,3	3,6	6,0
SHEAR LOAD																	
STEEL FAILURE																	
Characteristic resistance without lever arm	$V_{Rk,s}$	[kN]	0,8	0,8	0,8	1,6	1,6	1,6	2,6	2,6	2,6	4,3	4,3	4,3	5,7	5,7	5,7
Characteristic resistance with lever arm	$M_{Rk,s}$	[Nm]	0,7	0,7	0,7	1,8	1,8	1,8	3,7	3,7	3,7	7,4	7,4	7,4	11,5	11,5	11,5

Allowable values for resistance in case of Seismic performance category C1 & C2

Size			6	6	6	8	8	8	10	10	12	12	12	14	14	14
Nominal embedment depth	h_{nom}	[mm]	40	55	50	60	70	55	75	85	60	80	100	65	85	115
SEISMIC CATEGORY C1																
TENSION LOAD, STEEL FAILURE																
Characteristic resistance	$N_{Rk,s,C1}$	[kN]	19,4	19,4	35,4	35,4	35,4	54,3	54,3	54,3	83,1	83,1	83,1	111,1	111,1	111,1
TENSION LOAD, PULL-OUT FAILURE																
Characteristic resistance seismic C1	$N_{Rk,p,C1}$	[kN]	2,0	3,5	7,6	8,6	10,5	8,6	14,4	17,8	7,6	12,2	17,5	8,4	13,1	21,6
SHEAR LOAD, STEEL FAILURE																
Characteristic resistance without lever arm	$V_{Rk,s,C1}$	[kN]	4,7	4,7	10,6	10,6	10,6	18,7	18,7	18,7	28,7	28,7	28,7	38,3	38,3	38,3
SEISMIC CATEGORY C2																

R-HLX-HF INDUCTION HARDENED CONCRETE SCREW ANCHOR

Size			6	6	6	8	8	8	10	10	12	12	12	14	14	14
TENSION LOAD, STEEL FAILURE																
Characteristic resistance	$N_{Rk,s,C2}$	[kN]	-	-	-	-	35,4	-	-	54,3	-	-	83,1	-	-	111,1
TENSION LOAD, PULL-OUT FAILURE																
Characteristic resistance seismic C2	$N_{Rk,p,C2}$	[kN]	-	-	-	-	2,0	-	-	8,5	-	-	13,3	-	-	19,3
SHEAR LOAD, STEEL FAILURE																
Characteristic resistance without lever arm	$V_{Rk,s,C2}$	[kN]	-	-	-	-	3,6	-	-	8,0	-	-	22,3	-	-	21,6

LOGISTICAL DATA

SKU	Base-sales unit	Unit pack	Bulk pack	Pallet	Single Package - Gross Weight	Bulk Package - Gross Weight	Palette - Gross Weight	Barcode
R-HLX-06X040-HF-ZF		100.0	100.0	38400.0	1.4	1.4	545.3	5906675556307
R-HLX-06X050-HF-ZF		100.0	100.0	38400.0	1.6	1.6	629.8	5906675556314
R-HLX-06X060-HF-ZF		100.0	100.0	38400.0	1.8	1.8	706.6	5906675556321
R-HLX-06X075-HF-ZF		100.0	100.0	25600.0	2.2	2.2	558.1	5906675556338
R-HLX-06X090-HF-ZF		100.0	100.0	25600.0	2.5	2.5	634.9	5906675556345
R-HLX-06X100-HF-ZF		100.0	100.0	25600.0	2.7	2.7	698.9	5906675556352
R-HLX-06X130-HF-ZF		100.0	100.0	25600.0	3.4	3.4	865.3	5906675556369
R-HLX-08X060-HF-ZF		100.0	100.0	25600.0	4.4	4.4	1113.6	5906675641843
R-HLX-08X075-HF-ZF		100.0	100.0	25600.0	4.0	4.0	1024.0	5906675556376
R-HLX-08X090-HF-ZF		100.0	100.0	19200.0	4.6	4.6	879.4	5906675556383
R-HLX-08X100-HF-ZF		100.0	100.0	19200.0	5.0	5.0	954.2	5906675556390
R-HLX-08X120-HF-ZF		50.0	50.0	12800.0	2.9	2.9	742.4	5906675556406
R-HLX-08X130-HF-ZF		50.0	50.0	12800.0	3.1	3.1	791.0	5906675556413
R-HLX-08X150-HF-ZF		50.0	50.0	12800.0	3.5	3.5	885.8	5906675556420
R-HLX-10X060-HF-ZF		50.0	50.0	14400.0	2.6	2.6	743.0	5906675505442
R-HLX-10X070-HF-ZF		50.0	50.0	12800.0	2.9	2.9	736.0	5906675533810
R-HLX-10X080-HF-ZF		50.0	50.0	12800.0	3.2	3.2	809.0	5906675533827
R-HLX-10X090-HF-ZF		50.0	50.0	12800.0	3.5	3.5	883.2	5906675533834
R-HLX-10X100-HF-ZF		50.0	50.0	9600.0	3.7	3.7	718.1	5906675533841
R-HLX-10X120-HF-ZF		25.0	25.0	7200.0	2.2	2.2	629.3	5906675533858
R-HLX-10X140-HF-ZF		25.0	25.0	7200.0	2.5	2.5	712.8	5906675533865
R-HLX-10X180-HF-ZF		20.0	20.0	6000.0	2.5	2.5	735.0	5906675533872
R-HLX-10X200-HF-ZF		20.0	20.0	6000.0	2.9	2.9	873.0	5906675533889
R-HLX-12X070-HF-ZF		50.0	50.0	9600.0	4.4	4.4	844.8	5906675533896
R-HLX-12X090-HF-ZF		50.0	50.0	9600.0	5.3	5.3	1008.0	5906675533902
R-HLX-12X110-HF-ZF		50.0	50.0	6400.0	6.2	6.2	787.2	5906675533919
R-HLX-12X130-HF-ZF		50.0	50.0	6400.0	7.0	7.0	889.6	5906675533926
R-HLX-12X150-HF-ZF		50.0	50.0	6400.0	7.9	7.9	1004.8	5906675533933
R-HLX-14X075-HF-ZF		20.0	20.0	5120.0	2.8	2.8	709.1	5906675533940
R-HLX-14X100-HF-ZF		20.0	20.0	5120.0	3.2	3.2	826.9	5906675533957
R-HLX-14X130-HF-ZF		20.0	20.0	5120.0	4.0	4.0	1011.2	5906675533964
R-HLX-14X150-HF-ZF		15.0	15.0	3840.0	3.3	3.3	849.9	5906675533971
R-HLX-14X160-HF-ZF		15.0	15.0	3840.0	0.0	0.0	0.0	5906675658346
R-HLX-14X180-HF-ZF		10.0	10.0	2880.0	2.7	2.7	769.0	5906675533988

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	Cordless RawlWrench 18V 210Nm, in a transport case **R-PID18** 	Cordless RawlWrench 18V 1000Nm bare tool, in a transport case **R-PIW18-S** 	Long impact sockets **RT-IS**