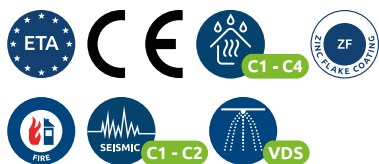


R-HLX-HF

**INDUCTION HARDENED CONCRETE SCREW.
NEW THREAD SHAPE WITH ADDITIONAL TEETH
ENSURING QUICK AND EASY INSTALLATION**

Concrete screws induction hardened



ETA - 23/0707

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

Protected with zinc, aluminium flake coating corrosion class C1-C4

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 ✓



Uncracked concrete C20/25-C50/60



Cracked concrete C20/25-C50/60



Unreinforced concrete,
Reinforced concrete



Solid masonry (after site testing)





The R-HLX concrete screw has a new thread geometry with additional cutting teeth that ensures quick and easy installation, also in reinforced concrete C20/25-C50/60

APPLICATIONS

Poles and road signs

Roads and bridges

Sanitary and gas installations

Scaffolding

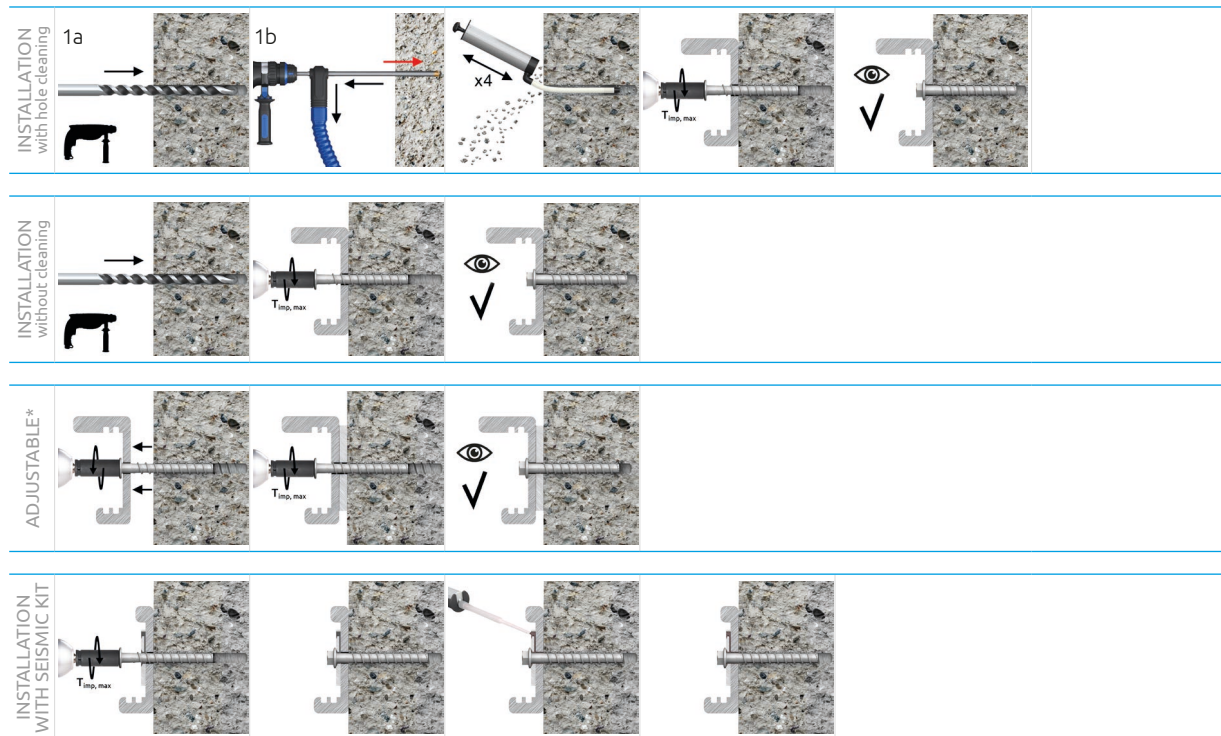
Seats in public facilities

Steel structures

Storage racks

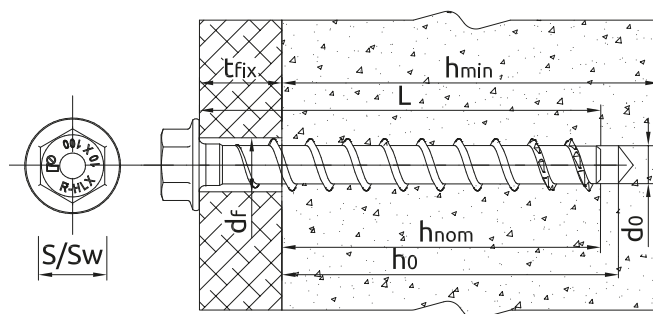


INSTALLATION GUIDE



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.
When installing using a hammer drill and without cleaning the holes, the hole should be 25 mm deeper.
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.
7. Finish screwing when the anchor touches the fastened element. The adjustment operation can be performed twice.
8. Screw the concrete screw with the filling washer into the hole using an impact wrench with the appropriate impact socket. Tighten until the element is pressed against the substrate. Install using any impact wrench.
9. After tightening the screw to the fastened element, fill the free space under the washer with resin.

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
Wrench size	SW	-	10	13	15	17	21
Torx socket	TX	-	T40	T50	T50	T50	T50
Max. torque for impact screw driver	$T_{imp,max}$	[Nm]	250	350	650	1000	1000

INSTALLATION DATA

Size			6	8	10	12	14
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]	$L+10-t_{fix}$	$L+10-t_{fix}$	$L+10-t_{fix}$	$L+10-t_{fix}$	$L+10-t_{fix}$
Nominal embedment depth	h_{nom}	[mm]	55	70	85	100	115
Min. substrate thickness	h_{min}	[mm]	80	110	130	155	190
Min. spacing	s_{min}	[mm]	35	35	60	80	100
Min. edge distance	c_{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]	$L+10-t_{fix}$	$L+10-t_{fix}$	$L+10-t_{fix}$	$L+10-t_{fix}$	$L+10-t_{fix}$
Nominal embedment depth	h_{nom}	[mm]	40	60	75	80	85
Min. substrate thickness	h_{min}	[mm]	80	110	120	130	130
Min. spacing	s_{min}	[mm]	35	35	60	80	100
Min. edge distance	c_{min}	[mm]	35	35	60	80	100
Minimum embedment depth							
Min. hole depth in substrate	$h_{0,min}$	[mm]	45	60	65	70	75
Real hole depth in substrate	h_0	[mm]	$L+10-t_{fix}$	$L+10-t_{fix}$	$L+10-t_{fix}$	$L+10-t_{fix}$	$L+10-t_{fix}$
Nominal embedment depth	h_{nom}	[mm]	35	50	55	60	65
Min. substrate thickness	h_{min}	[mm]	80	110	100	110	110
Min. spacing	s_{min}	[mm]	35	35	60	80	100
Min. edge distance	c_{min}	[mm]	35	35	60	80	100

MECHANICAL PROPERTIES

Size			6	8	10	12	14
Nominal ultimate tensile strength - tension	f_{uk}	[N/mm ²]	800	800	800	800	800
Nominal yield strength - tension	f_{yk}	[N/mm ²]	640	640	640	640	640
Cross sectional area - tension	A_s	[mm ²]	24.6	44.2	67.9	103.9	138.9
Elastic section modulus	W_{el}	[mm ³]	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

Size			6	8	10	12	14
UNCRACKED CONCRETE C20/25							
Standard embedment depth	h_{nom}	[mm]	55,00	70,00	85,00	100,00	115,00
Reduced embedment depth	h_{nom}	[mm]	40,00	60,00	75,00	80,00	85,00
Minimum embedment depth	h_{nom}	[mm]	35,00	50,00	55,00	60,00	65,00
CRACKED CONCRETE C20/25							
Standard embedment depth	h_{nom}	[mm]	55,00	70,00	85,00	100,00	115,00
Reduced embedment depth	h_{nom}	[mm]	40,00	60,00	75,00	80,00	85,00
Minimum embedment depth	h_{nom}	[mm]	35,00	50,00	55,00	60,00	65,00
MEAN ULTIMATE LOAD							
TENSION LOAD $N_{Ru,m}$							
UNCRACKED CONCRETE C20/25							
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 C20/25							
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

BASIC PERFORMANCE DATA

Size		6	8	10	12	14
SHEAR LOAD $V_{Ru,m}$						
UNCRACKED CONCRETE C20/25						
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 C20/25						
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 LOAD						
TENSION LOADE N_{Rk}						
UNCRACKED CONCRETE C20/25						
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 C20/25						
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 C20/25						
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 C20/25						
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 LOAD						
TENSION LOADE N_{Rd}						
UNCRACKED CONCRETE C20/25						
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 C20/25						
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 C20/25						
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
Minimum embedment depth	[kN]	4,35	7,99	8,93	20,46	22,50
CRACKED CONCRETE C20/25						
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 LOADE N_{rec}						
UNCRACKED CONCRETE C20/25						
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 C20/25						
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

BASIC PERFORMANCE DATA

Size		6	8	10	12	14
SHEAR LOAD V_{rec}						
UNCRACKED CONCRETE C20/25						
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 C20/25						
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

Size			6			10			10			12			14		
Nominal embedment depth	h_{nom}	[mm]	35.00	40.00	55.00	50.00	60.00	70.00	55.00	75.00	85.00	60.00	80.00	100.00	65.00	85.00	115.00
Effective embedment depth	h_{ef}	[mm]	26.00	30.00	43.00	39.00	43.00	56.00	42.00	59.00	68.00	46.00	63.00	80.00	49.00	66.00	92.00
TENSION LOADE																	
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; NON-CRACKED CONCRETE C20/25																	
Characteristic resistance	$N_{Rk,p}$	[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
PULL-OUT FAILURE; CRACKED CONCRETE C20/25																	
Characteristic resistance	$N_{Rk,p}$	[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
PULL-OUT 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
Increasing factors for $N_{Rd,p}$ - 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 $N_{Rd,p}$ - 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 $N_{Rd,p}$ - 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 non-cracked concrete	$k_{ucr,N}$	-	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
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}	-	1.01)	1.01)	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	k7	-	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																	
Effective length of anchor	ℓ_f	[mm]	35.00	40.00	55.00	50.00	60.00	70.00	55.00	75.00	85.00	60.00	80.00	100.00	65.00	85.00	115.00
Anchor diameter	d_{nom}	[mm]	6.00	6.00	6.00	8.00	8.00	8.00	10.00	10.00	10.00	12.00	12.00	12.00	12.00	12.00	12.00
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⁾ Robustness without cleaning $\gamma_{inst}=1,2$

FIRE RESISTANCE

Size			6			8			10			12			14		
R(dla EI) = 30min																	
Nominal embedment depth		h _{nom} [mm]	35	40	55	50	60	70	55	75	85	60	80	100	65	85	115
TENSION LOADE																	
STEEL FAILURE																	
Characteristic resistance		N _{Rk,s} [kN]	1.8			3.8			6.6			11.4			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			3.8			6.6			11.4			15.2		
Characteristic resistance with lever arm		M _{Rk,s} [Nm]	1.5			4.3			9.3			19.7			30.4		
R(dla EI) = 60min																	
Nominal embedment depth		h _{nom} [mm]	35	40	55	50	60	70	55	75	85	60	80	100	65	85	115
TENSION LOADE																	
STEEL FAILURE																	
Characteristic resistance		N _{Rk,s} [kN]	1.4			2.9			5			8.5			11.4		
PULL-OUT FAILURE																	
Characteristic resistance		N _{Rk,p} [kN]	0.5	0.5	0.8	2	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			2.9			5.0			8.5			11.4		
Characteristic resistance with lever arm		M _{Rk,s} [Nm]	1.2			3.3			7.0			14.8			22.9		
R(dla EI) = 90min																	
Nominal embedment depth		h _{nom} [mm]	35	40	55	50	60	70	55	75	85	60	80	100	65	85	115
TENSION LOADE																	
STEEL FAILURE																	
Characteristic resistance		N _{Rk,s} [kN]	1.0			2.0			3.4			5.7			7.6		
PULL-OUT FAILURE																	
Characteristic resistance		N _{Rk,p} [kN]	0.5	0.5	0.8	2	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			2.0			3.4			5.7			7.6		
Characteristic resistance with lever arm		M _{Rk,s} [Nm]	0.8			2.3			4.8			9.9			15.3		
R(dla EI) = 120min																	
Nominal embedment depth		h _{nom} [mm]	35	40	55	50	60	70	55	75	85	60	80	100	65	85	115
TENSION LOADE																	
STEEL FAILURE																	
Characteristic resistance		N _{Rk,s} [kN]	0.8			1.6			2.6			4.3			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			1.6			2.6			4.3			5.7		
Characteristic resistance with lever arm		M _{Rk,s} [Nm]	0.7			1.8			3.7			7.4			11.5		

SEISMIC

Allowable values for resistance in case of Seismic performance category C1

Size			6		8			10			12			14		
Nominal embedment depth	h_{nom}	[mm]	40	55	50	60	70	55	75	85	60	80	100	65	85	115
TENSION LOAD. STEEL FAILURE																
Characteristic resistance	$N_{Rk,s,C1}$	[kN]	19.4		35.4			54.3			83.1			111.1		
TENSION LOAD. PULL-OUT FAILURE																
Characteristic resistance	$N_{Rk,p,C1}$	[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		10.6			18.7			28.7			38.3		

Allowable values for resistance in case of Seismic performance category C2

Size			6	8	10	12	14
Nominal embedment depth	h_{nom}	[mm]	-	70	85	100	115
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	$N_{Rk,p,C2}$	[kN]	-	2.0	8.3	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

LOGISTICS DATA

Product Code	Quantity	Box	Outer	Pallet	Box weight	Outer weight	Pallet weight	EAN
R-HLX-06X040-HF-ZF	pcs	100	100	41600	1,37	1,37	569,92	5906675556307
R-HLX-06X050-HF-ZF	pcs	100	100	41600	1,59	1,59	661,44	5906675556314
R-HLX-06X060-HF-ZF	pcs	100	100	41600	1,79	1,79	744,64	5906675556321
R-HLX-06X075-HF-ZF	pcs	100	100	25600	2,13	2,13	545,28	5906675556338
R-HLX-06X090-HF-ZF	pcs	100	100	25600	2,43	2,43	622,08	5906675556345
R-HLX-06X100-HF-ZF	pcs	100	100	25600	2,68	2,68	686,08	5906675556352
R-HLX-06X130-HF-ZF	pcs	100	100	22400	3,33	3,33	745,92	5906675556369
R-HLX-08X075-HF-ZF	pcs	100	100	19200	3,95	3,95	758,4	5906675556376
R-HLX-08X090-HF-ZF	pcs	100	100	16000	4,53	4,53	724,8	5906675556383
R-HLX-08X100-HF-ZF	pcs	100	100	12800	4,92	4,92	629,76	5906675556390
R-HLX-08X120-HF-ZF	pcs	50	50	12800	2,85	2,85	729,6	5906675556406
R-HLX-08X130-HF-ZF	pcs	50	50	11200	3,04	3,04	680,96	5906675556413
R-HLX-08X150-HF-ZF	pcs	50	50	11200	3,41	3,41	763,84	5906675556420
R-HLX-10X060-HF-ZF	pcs	50	50	13200	2,725	2,725	719,4	5906675505442
R-HLX-10x070-HF-ZF	pcs	50	50	11200	3,125	3,125	700	5906675533810
R-HLX-10x080-HF-ZF	pcs	50	50	11200	3,225	3,225	722,4	5906675533827
R-HLX-10x090-HF-ZF	pcs	50	50	9600	3,66	3,66	702,72	5906675533834
R-HLX-10x100-HF-ZF	pcs	50	50	9600	3,905	3,905	749,76	5906675533841
R-HLX-10x120-HF-ZF	pcs	25	25	6400	2,33	2,33	596,48	5906675533858
R-HLX-10x140-HF-ZF	pcs	25	25	7200	2,53	2,53	728,64	5906675533865
R-HLX-10x180-HF-ZF	pcs	20	20	6240	2,472	2,472	771,264	5906675533872
R-HLX-10x200-HF-ZF	pcs	20	20	5280	2,862	2,862	755,568	5906675533889
R-HLX-12x070-HF-ZF	pcs	50	50	8400	4,605	4,605	773,64	5906675533896
R-HLX-12x090-HF-ZF	pcs	50	50	4800	7,08	7,08	679,68	5906675533902
R-HLX-12x110-HF-ZF	pcs	50	50	4000	8,205	8,205	656,4	5906675533919
R-HLX-12x130-HF-ZF	pcs	50	50	4000	8,905	8,905	712,4	5906675533926
R-HLX-12x150-HF-ZF	pcs	50	50	4000	9,53	9,53	762,4	5906675533933
R-HLX-14x075-HF-ZF	pcs	20	20	5120	2,712	2,712	694,272	5906675533940
R-HLX-14x100-HF-ZF	pcs	20	20	4480	3,432	3,432	768,768	5906675533957
R-HLX-14x130-HF-ZF	pcs	20	20	3200	4,092	4,092	654,72	5906675533964
R-HLX-14x150-HF-ZF	pcs	15	15	2400	4,743	4,743	758,88	5906675533971
R-HLX-14x180-HF-ZF	pcs	10	10	1600	4,134	4,134	661,44	5906675533988

RELATED PRODUCT

DRILLING	POWER TOOLS	Hammer drill SDS-PLUS, 850 W, 2,5 J R-PRH26850 	Hammer drill 18 V SDS-PLUS 2,5 J R-PRH18 	Impact wrench 18 V 1000 Nm 1/2" R-PIW18 	Impact driver 18 V 315 Nm 1/2" R-PID18-315 
	POWER TOOL ACCESSORIES	Drill bit Aggressor SDS Plus RT-SDSA 	Drill bit Rebardrill SDS Plus RT-SDSR 	Impact bits 1/2" RT-IS 	T type impact screwdriver bit RT-IBIT-T 