

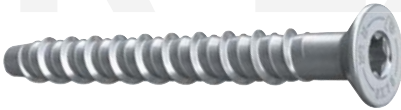
R-LX CONCRETE SCREW ANCHORS MULTI-POINT NON-STRUCTURAL FIXINGS

Self-tapping concrete screwbolt



Hexagonal head screw
with washer

R-LX-HF



Countersunk head screw

R-LX-CS



Internally threaded
head screw

R-LX-I



Externally threaded
head screw

R-LX-E



Panhead screw

R-LX-P



Hexagonal head screw
for temporary installation

R-LX-H*

*not included in the approval



ETA 17/0783



FEATURES AND BENEFITS

- Time-efficient installation through streamlined procedure - simply drill and drive
- Completely removable with possibility of reuse
- Unique design with patented threadform ensures high performance for relatively small hole diameter
- Non-expansion functioning ensures low risk of damage to base material and makes R-LX ideal for installation near edges and adjacent anchors
- Special zinc flake corrosion-resistant coating
- High performance in both uncracked and cracked concrete
- Different head types for any application
- Oversize head for fixtures with elongated holes
- Excellent product for temporary fixing
- Suitable for standard and reduced embedment depth

APPLICATIONS

- Through-fixing
- Temporary anchorages
- Formwork support systems
- Balustrading & handrails
- Fencing & gates manufacturing and installation
- Racking systems
- Public seating
- Scaffolding

BASE MATERIALS

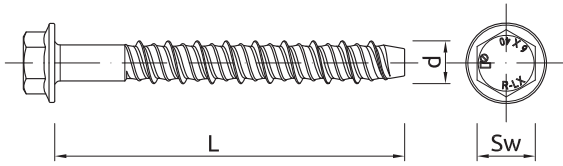
Approved for use in:

- Cracked concrete C20/25-C50/60
 - Non-cracked concrete C20/25-C50/60
 - Reinforced concrete
 - Unreinforced concrete
 - Hollow Core Slab (only R-LX-06)
- Also suitable for use in:
- Natural Stone (after site testing)

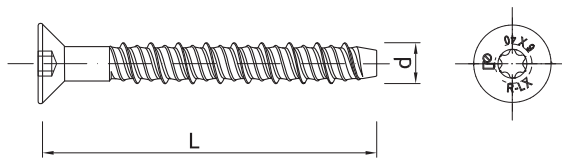
R-LX CONCRETE SCREW ANCHORS MULTI-POINT NON-STRUCTURAL FIXINGS

PRODUCT INFORMATION

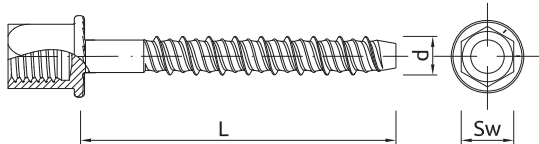
R-LX-HF HEXAGONAL HEAD SCREW WITH WASHER



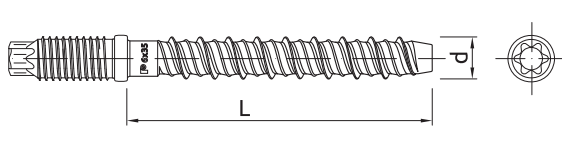
R-LX-CS COUNTERSUNK HEAD SCREW



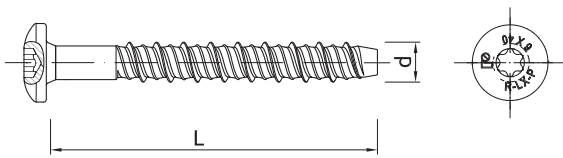
R-LX-I INTERNALLY THREADED HEAD SCREW



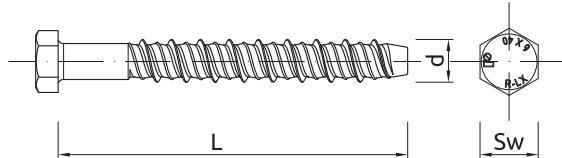
R-LX-E EXTERNALLY THREADED HEAD SCREW



R-LX-P PANHEAD SCREW



R-LX-H HEXAGONAL HEAD SCREW FOR TEMPORARY INSTALLATION



	Product Code		Drill	Anchor			Fixture		
				Diameter	Length	Internal thread	Max. thickness t_{fix} For:		Hole diameter
				d	L		$h_{nom,s}$	$h_{nom,r}$	d_f
				[mm]	[mm]		[mm]	[mm]	[mm]
R-LX-HF Hex with Flange									
	R-LX-HF-ZF	R-LX-HF-ZP							
5	R-LX-05X050-HF-ZF	R-LX-05X050-HF-ZP	5	6.3	50	-	7	-	7
	R-LX-05X075-HF-ZF	R-LX-05X075-HF-ZP	5	6.3	75	-	32	-	7
6	R-LX-06X050-HF-ZF	R-LX-06X050-HF-ZP	6	7.5	50	-	-	7	9
	R-LX-06X060-HF-ZF	R-LX-06X060-HF-ZP	6	7.5	60	-	5	17	9
	R-LX-06X075-HF-ZF	R-LX-06X075-HF-ZP	6	7.5	75	-	20	32	9
	R-LX-06X090-HF-ZF	R-LX-06X090-HF-ZP	6	7.5	90	-	35	47	9
	R-LX-06X100-HF-ZF	R-LX-06X100-HF-ZP	6	7.5	100	-	45	57	9
	R-LX-06X130-HF-ZF	R-LX-06X130-HF-ZP	6	7.5	130	-	75	87	9
	R-LX-06X150-HF-ZF	R-LX-06X150-HF-ZP	6	7.5	150	-	95	107	9
8	R-LX-08X060-HF-ZF	R-LX-08X060-HF-ZP	8	10	60	-	-	10	12
	R-LX-08X075-HF-ZF	R-LX-08X075-HF-ZP	8	10	75	-	5	30	12
	R-LX-08X090-HF-ZF	R-LX-08X090-HF-ZP	8	10	90	-	20	40	12
	R-LX-08X100-HF-ZF	R-LX-08X100-HF-ZP	8	10	100	-	30	50	12
	R-LX-08X120-HF-ZF	R-LX-08X120-HF-ZP	8	10	120	-	50	70	12
	R-LX-08X130-HF-ZF	R-LX-08X130-HF-ZP	8	10	130	-	60	80	12
	R-LX-08X150-HF-ZF	R-LX-08X150-HF-ZP	8	10	150	-	80	100	12
10	R-LX-10X060-HF-ZF	R-LX-10X060-HF-ZP	10	12.5	60	-	-	5	14
	R-LX-10X065-HF-ZF	R-LX-10X065-HF-ZP	10	12.5	65	-	-	10	14
	R-LX-10X075-HF-ZF	R-LX-10X075-HF-ZP	10	12.5	75	-	-	20	14
	R-LX-10X085-HF-ZF	R-LX-10X085-HF-ZP	10	12.5	85	-	-	30	14
	R-LX-10X090-HF-ZF	R-LX-10X090-HF-ZP	10	12.5	90	-	5	35	14
	R-LX-10X100-HF-ZF	R-LX-10X100-HF-ZP	10	12.5	100	-	15	45	14
	R-LX-10X110-HF-ZF	R-LX-10X110-HF-ZP	10	12.5	110	-	25	55	14
	R-LX-10X120-HF-ZF	R-LX-10X120-HF-ZP	10	12.5	120	-	35	65	14
	R-LX-10X130-HF-ZF	R-LX-10X130-HF-ZP	10	12.5	130	-	45	75	14
12	R-LX-10X140-HF-ZF	R-LX-10X140-HF-ZP	10	12.5	140	-	55	85	14
	R-LX-10X150-HF-ZF	R-LX-10X150-HF-ZP	10	12,5	150	-	65	95	14
	R-LX-12X075-HF-ZF	R-LX-12X075-HF-ZP	12	14	75	-	-	10	16
	R-LX-12X100-HF-ZF	R-LX-12X100-HF-ZP	12	14	100	-	-	35	16
	R-LX-12X130-HF-ZF	R-LX-12X130-HF-ZP	12	14	130	-	30	65	16
14	R-LX-12X150-HF-ZF	R-LX-12X150-HF-ZP	12	14	150	-	50	85	16
	R-LX-14X080-HF-ZF	R-LX-14X080-HF-ZP	14	17	80	-	-	5	18
	R-LX-14X105-HF-ZF	R-LX-14X105-HF-ZP	14	17	105	-	-	30	18
	R-LX-14X115-HF-ZF	R-LX-14X115-HF-ZP	14	17	115	-	-	40	18
	R-LX-14X135-HF-ZF	R-LX-14X135-HF-ZP	14	17	135	-	15	60	18
	R-LX-14X160-HF-ZP		14	17	160	-	40	85	18

R-LX CONCRETE SCREW ANCHORS MULTI-POINT NON-STRUCTURAL FIXINGS

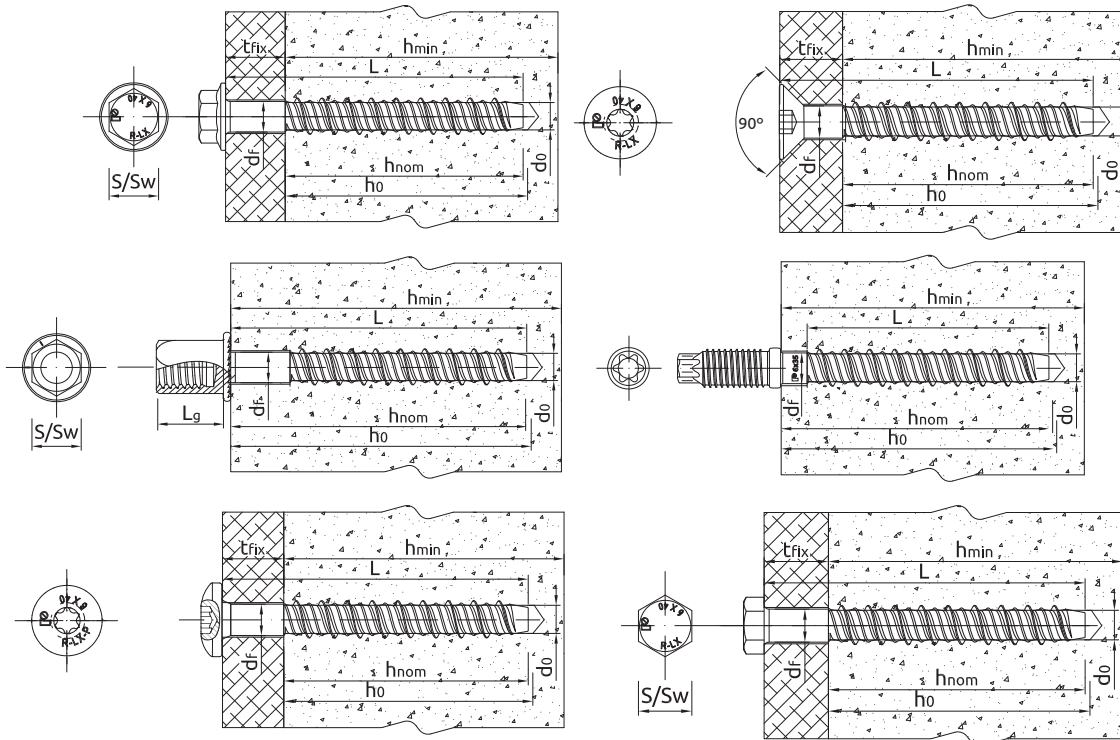
PRODUCT INFORMATION (cont.)

	Product Code		Drill	Anchor			Fixture		
				Diameter	Length	Internal thread	Max. thickness t_{fix} for:		Hole diameter
				d	L		$h_{nom,s}$	$h_{nom,r}$	d_f
				[mm]	[mm]		[mm]	[mm]	[mm]
R-LX-CS Countresunk head screw									
	R-LX-CS-ZF	R-LX-CS-ZP							
5	R-LX-05X050-CS-ZF	R-LX-05X050-CS-ZP	5	6.3	50	-	7	-	7
	R-LX-05X075-CS-ZF	R-LX-05X075-CS-ZP	5	6.3	75	-	32	-	7
6	R-LX-06X050-CS-ZF	R-LX-06X050-CS-ZP	6	7.5	50	-	-	7	9
	-	R-LX-06X060-CS-ZP	6	7.5	60	-	5	17	9
	R-LX-06X075-CS-ZF	R-LX-06X075-CS-ZP	6	7.5	75	-	20	32	9
	-	R-LX-06X090-CS-ZP	6	7.5	90	-	35	47	9
	R-LX-06X100-CS-ZF	R-LX-06X100-CS-ZP	6	7.5	100	-	45	57	9
	R-LX-06X130-CS-ZF	R-LX-06X130-CS-ZP	6	7.5	130	-	75	87	9
	R-LX-06X150-CS-ZF	R-LX-06X150-CS-ZP	6	7.5	150	-	95	107	9
8	R-LX-08X060-CS-ZF	R-LX-08X060-CS-ZP	8	10	60	-	-	10	12
	R-LX-08X075-CS-ZF	R-LX-08X075-CS-ZP	8	10	75	-	5	30	12
	R-LX-08X090-CS-ZF	R-LX-08X090-CS-ZP	8	10	90	-	20	40	12
	R-LX-08X100-CS-ZF	R-LX-08X100-CS-ZP	8	10	100	-	30	50	12
	-	R-LX-08X120-CS-ZP	8	10	120	-	50	70	12
	R-LX-08X130-CS-ZF	R-LX-08X130-CS-ZP	8	10	130	-	60	80	12
	R-LX-08X150-CS-ZF	R-LX-08X150-CS-ZP	8	10	150	-	80	100	12
10	-	R-LX-10X060-CS-ZP	10	12.5	60	-	-	5	14
	R-LX-10X065-CS-ZF	R-LX-10X065-CS-ZP	10	12.5	65	-	-	10	14
	R-LX-10X075-CS-ZF	R-LX-10X075-CS-ZP	10	12.5	75	-	-	20	14
	R-LX-10X085-CS-ZF	R-LX-10X085-CS-ZP	10	12.5	85	-	-	30	14
	-	R-LX-10X090-CS-ZP	10	12.5	90	-	5	35	14
	R-LX-10X100-CS-ZF	R-LX-10X100-CS-ZP	10	12.5	100	-	15	45	14
	-	R-LX-10X110-CS-ZP	10	12.5	110	-	25	55	14
	R-LX-10X120-CS-ZF	R-LX-10X120-CS-ZP	10	12.5	120	-	35	65	14
	-	R-LX-10X130-CS-ZP	10	12.5	130	-	45	75	14
	R-LX-10X140-CS-ZF	R-LX-10X140-CS-ZP	10	12.5	140	-	55	85	14
	-	R-LX-10X150-CS-ZP	10	12.5	150	-	65	95	14
R-LX-10X160-CS-ZF	R-LX-10X160-CS-ZP	10	12.5	160	-	75	105	14	
R-LX-I Internally threaded head									
		R-LX-I-ZP							
6	-	R-LX-06X055-I08-ZP	6	7.5	55	M8	-	-	-
	-	R-LX-06X055-I10-ZP	6	7.5	55	M10	-	-	-
8	-	R-LX-08X050-I12-ZP	8	10	50	M12	-	-	-
10	-	R-LX-10X055-I16-ZP	10	12.5	55	M16	-	-	-
R-LX-E Externally threaded head									
		R-LX-E-ZP							
6	-	R-LX-06X055-E-ZP	6	7.5	55	-	-	-	-
R-LX-P-ZP Pan-head									
		R-LX-P-ZP							
6	-	R-LX-06X040-P-ZP	6	7.5	35	-	-	-	9
		R-LX-H-ZP							
8	*R-LX-08X060-H-ZF	*R-LX-08X060-H-ZP	8	10	60	-	-	10	12
	*R-LX-08X075-H-ZF	*R-LX-08X075-H-ZP	8	10	75	-	5	25	12
	*R-LX-08X090-H-ZF	*R-LX-08X090-H-ZP	8	10	90	-	20	40	12
	*R-LX-08X100-H-ZF	*R-LX-08X100-H-ZP	8	10	100	-	30	50	12
	*R-LX-08X130-H-ZF	*R-LX-08X130-H-ZP	8	10	130	-	60	80	12
	*R-LX-08X150-H-ZF	*R-LX-08X150-H-ZP	8	10	150	-	80	100	12
10	*R-LX-10X065-H-ZF	*R-LX-10X065-H-ZP	10	12.5	65	-	-	10	14
	*R-LX-10X075-H-ZF	*R-LX-10X075-H-ZP	10	12.5	75	-	-	20	14
	*R-LX-10X085-H-ZF	*R-LX-10X085-H-ZP	10	12.5	85	-	-	30	14
	*R-LX-10X100-H-ZF	*R-LX-10X100-H-ZP	10	12.5	100	-	15	45	14
	*R-LX-10X120-H-ZF	*R-LX-10X120-H-ZP	10	12.5	120	-	35	65	14
	*R-LX-10X140-H-ZF	*R-LX-10X140-H-ZP	10	12.5	140	-	55	85	14

*not included in the approval

R-LX CONCRETE SCREW ANCHORS MULTI-POINT NON-STRUCTURAL FIXINGS

INSTALLATION DATA

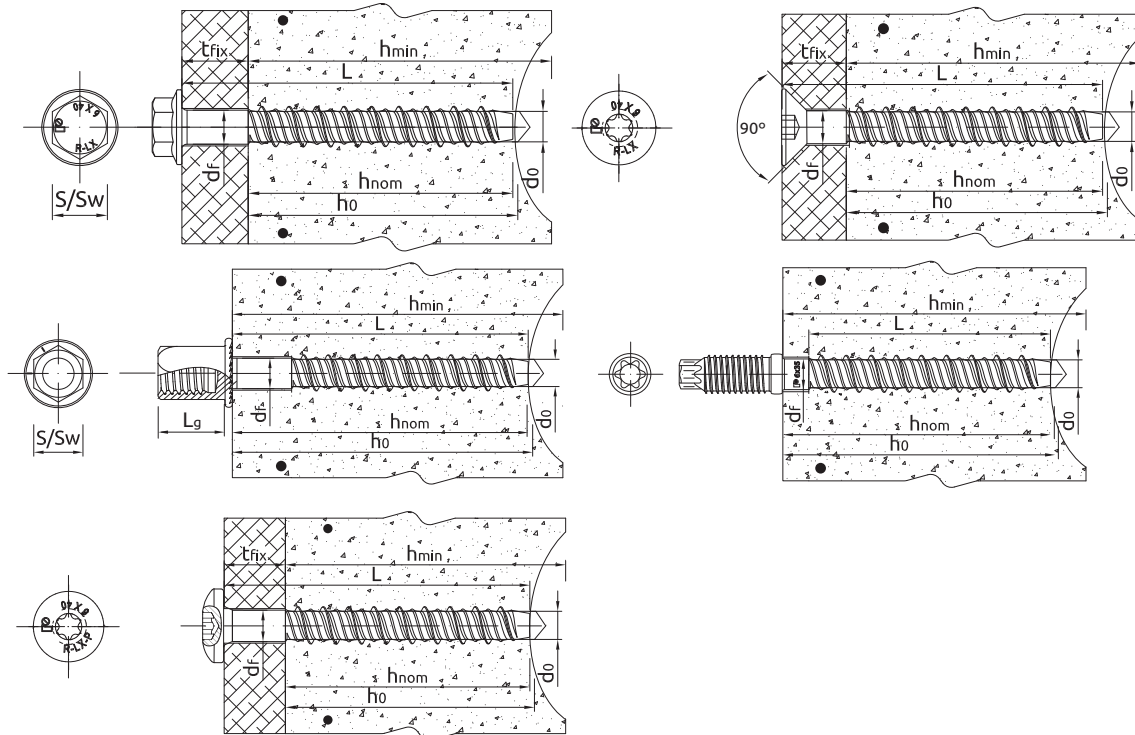


Normal concrete

Size			5	6	8	10	14
Thread diameter	d	[mm]	6,3	7,5	10	12,5	17
Hole diameter in substrate	d ₀	[mm]	5	6	8	10	14
Wrench size for hex head	Sw	[mm]	8	10	13	15	19
Wrench size for internally threaded head	Sw _i	[mm]	10	13	15	21	-
Torx driver for externally threaded head			-	E7	-	-	-
Torx driver for countersunk and pan head			T25	T30	T45	T50	-
Max. installation torque for impact driver	T _{imp,max}	[Nm]	200	400	900	950	950
STANDARD EMBEDMENT DEPTH							
Min. hole depth in substrate	h _{0,s}	[mm]	50	65	80	95	130
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]	40	55	70	85	120
Min. substrate thickness	h _{min,s}	[mm]	80	84	110	130	190
Min. spacing	s _{min,s}	[mm]	40	45	50	60	100
Min. edge distance	c _{min,s}	[mm]	40	45	50	60	100
REDUCED EMBEDMENT DEPTH							
Min. hole depth in substrate	h _{0,r}	[mm]	35	50	60	65	85
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]	25	39	50	55	75
Min. substrate thickness	h _{min,r}	[mm]	80	80	80	80	110
Min. spacing	s _{min,r}	[mm]	40	45	50	60	100
Min. edge distance	c _{min,r}	[mm]	40	45	50	60	100
MINIMUM EMBEDMENT DEPTH							
Min. hole depth in substrate	h _{0,m}	[mm]	-	45	-	-	-
Real hole depth in substrate	h ₀	[mm]	-	L + 10 - t _{fix}	-	-	-
Min. installation depth	h _{nom,m}	[mm]	-	35	-	-	-
Min. substrate thickness	h _{min,m}	[mm]	-	80	-	-	-
Min. spacing	s _{min,m}	[mm]	-	45	-	-	-
Min. edge distance	c _{min,m}	[mm]	-	45	-	-	-

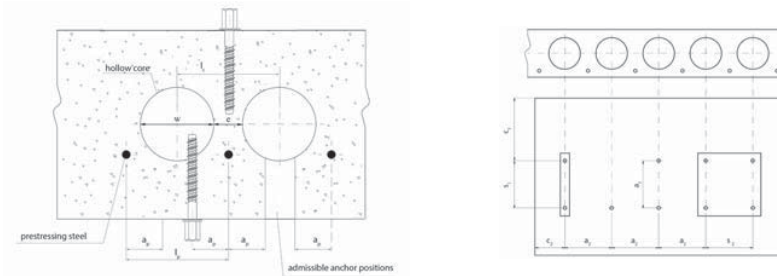
R-LX CONCRETE SCREW ANCHORS MULTI-POINT NON-STRUCTURAL FIXINGS

INSTALLATION DATA HOLLOW CONCRETE SLAB



Hollow concrete slab

Size			6
Thread diameter	d	[mm]	7.5
Hole diameter in substrate	d ₀	[mm]	6
Wrench size for hex head	Sw	[mm]	10
Wrench size for internally threaded head	Sw _i	[mm]	13
Torx driver for externally threaded head			E7
Torx driver for countersunk and pan head			T30
Max. installation torque for impact driver	T _{imp,max}	[Nm]	400
MINIMUM EMBEDMENT DEPTH			
Min. hole depth in substrate	h _{0,m}	[mm]	45
Real hole depth in substrate	h ₀	[mm]	L + 10 - t _{fix}
Min. installation depth	h _{nom,m}	[mm]	35
Min. spacing	s _{min,m}	[mm]	100
Min. edge distance	c _{min,m}	[mm]	50



c1, c2, - edge distance
s1, s2, - anchor spacing
a1, a2, - distance between anchor groups

Core width / Web thickness; w / e	≤ 4.2
Core distance	l _c ≥ 100 mm
Prestressing steel	l _p ≥ 100 mm
Distance between anchor position an prestressing steel	a _p ≥ 50 mm

R-LX CONCRETE SCREW ANCHORS MULTI-POINT NON-STRUCTURAL FIXINGS

MECHANICAL PROPERTIES

Size			5	6	8	10	14
Nominal ultimate tensile strength - tension	f_{uk}	[N/mm ²]	1300	1250	1200	1050	1020
Nominal yield strength - tension	f_{yk}	[N/mm ²]	1150	1100	1050	950	800
Cross sectional area - tension	A_s	[mm ²]	19.6	28.3	50.3	78.5	153.9
Elastic section modulus	W_{el}	[mm ³]	12.2	21.2	50.3	98.1	269.3
Characteristic bending resistance	$M_{Rk,s}^0$	[Nm]	19.0	31.8	72.4	123.6	329.6
Design bending resistance	M	[Nm]	12.7	12.2	48.3	82.4	219.8

BASIC PERFORMANCE DATA

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

Size		5	6	8	10	14
CRACKED AND NON-CRACKED CONCRETE						
Standard embedment depth h_{nom}	[mm]	40.00	55.00	70.00	85.00	120.00
Reduced embedment depth h_{nom}	[mm]	25.00	39.00	50.00	55.00	75.00
Minimum embedment depth h_{nom}	[mm]	-	35.00	-	-	-
HOLLOW CORE SLAB						
Minimum embedment depth h_{nom}	[mm]	-	35.00	-	-	-
CHARACTERISTIC LOAD						
TENSION AND SHEAR LOAD F_{Rk}						
CRACKED AND NON-CRACKED CONCRETE						
Standard embedment depth	[kN]	5.00	9.00	12.00	20.00	30.00
Reduced embedment depth	[kN]	3.00	6.00	7.50	9.00	12.00
Minimum embedment depth	[kN]	-	3.00	-	-	-
HOLLOW CORE SLAB*						
Minimum embedment depth	[kN]	-	6.00	-	-	-
DESIGN LOAD						
TENSION AND SHEAR LOAD F_{Rd}						
CRACKED AND NON-CRACKED CONCRETE						
Standard embedment depth	[kN]	2.78	6.00	8.00	13.33	20.00
Reduced embedment depth	[kN]	1.67	4.00	5.00	6.00	8.00
Minimum embedment depth	[kN]	-	2.00	-	-	-
HOLLOW CORE SLAB						
Minimum embedment depth	[kN]	-	4.00	-	-	-
RECOMMENDED LOAD						
TENSION AND SHEAR LOAD F_{rec}						
CRACKED AND NON-CRACKED CONCRETE						
Standard embedment depth	[kN]	1.98	4.29	5.71	9.52	14.29
Reduced embedment depth	[kN]	1.19	2.86	3.57	4.29	5.71
Minimum embedment depth	[kN]	-	1.42	-	-	-
HOLLOW CORE SLAB						
Minimum embedment depth	[kN]	-	2.85	-	-	-

Hollow concrete slabs C40/50 to C50/60

DESIGN PERFORMANCE DATA

Standard embedment depth - normal concrete

Size			5	6	8	10	14
Min. installation depth	h_{nom}	[mm]	40.0	55.0	70.0	85.0	120.0
Effective embedment depth	h_{ef}	[mm]	30.0	42.0	53.0	65.0	92.0
TENSION AND SHEAR LOAD							
Characteristic resistance	F_{Rk}	[kN]	5.00	9.00	12.00	20.00	30.00
Installation safety factor	γ_2	-	1.20	1.00	1.00	1.00	1.00
Increasing factors for NRd,p - C30/37	ψ_c	-	1.08	1.08	1.08	1.08	1.08
Increasing factors for NRd,p - C40/50	ψ_c	-	1.15	1.15	1.15	1.15	1.15
Increasing factors for NRd,p - C50/60	ψ_c	-	1.19	1.19	1.19	1.19	1.19
Spacing	$s_{cr,N}$	[mm]	90.00	126.00	160.00	196.00	276.00
Edge distance	$c_{cr,N}$	[mm]	45.00	63.00	80.00	98.00	138.00
SHEAR LOAD							
Characteristic resistance with lever arm	$M_{Rk,s}$	[Nm]	19.00	31.80	72.40	123.60	329.60
Partial safety factor	γ_{Ms}	-	1.50	1.50	1.50	1.50	1.50

R-LX CONCRETE SCREW ANCHORS MULTI-POINT NON-STRUCTURAL FIXINGS

DESIGN PERFORMANCE DATA

Characteristic Resistance under fire exposure in concrete C20/25 to C50/60 - standard embedment depth

Size			5	6	8	10	14
Spacing	s_{cr}	[mm]	120.0	168.0	212.0	260.0	368.0
Edge distance	c_{cr}	[mm]	60.0	84.0	106.0	130.0	184.0
R (for EI) = 30 min							
TENSION AND SHEAR LOAD							
Characteristic resistance	F_{Rk}	[kN]	0.20	0.28	0.75	1.57	3.08
R (for EI) = 60 min							
TENSION AND SHEAR LOAD							
Characteristic resistance	F_{Rk}	[kN]	0.18	0.25	0.65	1.18	2.31
R (for EI) = 90 min							
TENSION AND SHEAR LOAD							
Characteristic resistance	F_{Rk}	[kN]	0.14	0.20	0.50	1.02	2.00
R (for EI) = 120 min							
TENSION AND SHEAR LOAD							
Characteristic resistance	F_{Rk}	[kN]	0.10	0.14	0.40	0.79	1.54

Reduced embedment depth - normal concrete

Size			5	6	8	10	14
Min. installation depth	h_{nom}	[mm]	25.0	39.0	50.0	55.0	75.0
Effective embedment depth	h_{ef}	[mm]	17.5	30.0	37.0	40.0	55.0
TENSION AND SHEAR LOAD							
Characteristic resistance	$N_{Rk,s}$	[kN]	3.00	6.00	7.50	9.00	12.00
Installation safety factor	γ_2	-	1.20	1.00	1.00	1.00	1.00
Increasing factors for $N_{Rd,p}$ - C30/37	ψ_c	-	1.08	1.08	1.08	1.08	1.08
Increasing factors for $N_{Rd,p}$ - C40/50	ψ_c	-	1.15	1.15	1.15	1.15	1.15
Increasing factors for $N_{Rd,p}$ - C50/60	ψ_c	-	1.19	1.19	1.19	1.19	1.19
Spacing	$s_{cr,N}$	[mm]	70.00	90.00	120.00	120.00	180.00
Edge distance	$c_{cr,N}$	[mm]	35.00	45.00	60.00	60.00	90.00
SHEAR LOAD							
Characteristic resistance without lever arm	$M_{Rk,s}$	[kN]	19.00	31.80	72.40	123.60	329.60
Partial safety factor	γ_{Ms}	-	1.50	1.50	1.50	1.50	1.50

Characteristic Resistance under fire exposure in concrete C20/25 to C50/60 - reduced embedment depth

Size			5	6	8	10	14
Spacing	s_{cr}	[mm]	-	120.0	148.0	160.0	220.0
Edge distance	c_{cr}	[mm]	-	60.0	74.0	80.0	110.0
R (for EI) = 30 min							
TENSION AND SHEAR LOAD							
Characteristic resistance	F_{Rk}	[kN]	-	0.28	0.75	1.57	3.08
R (for EI) = 60 min							
TENSION AND SHEAR LOAD							
Characteristic resistance	F_{Rk}	[kN]	-	0.25	0.65	1.18	2.31
R (for EI) = 90 min							
TENSION AND SHEAR LOAD							
Characteristic resistance	F_{Rk}	[kN]	-	0.20	0.50	1.02	2.00
R (for EI) = 120 min							
TENSION AND SHEAR LOAD							
Characteristic resistance	F_{Rk}	[kN]	-	0.14	0.40	0.79	1.54

DESIGN PERFORMANCE DATA

Minimum embedment depth - normal concrete

Size			5
Min. installation depth	h_{nom}	[mm]	35.0
Effective embedment depth	h_{ef}	[mm]	24.7
TENSION AND SHEAR LOAD			
Characteristic resistance	F_{Rk}	[kN]	3.00
Installation safety factor	γ_2	-	1.00
Increasing factors for $N_{Rd,p}$ - C30/37	ψ_c	-	1.00
Increasing factors for $N_{Rd,p}$ - C40/50	ψ_c	-	1.00
Increasing factors for $N_{Rd,p}$ - C50/60	ψ_c	-	1.00
Spacing	$s_{cr,N}$	[mm]	100.00
Edge distance	$c_{cr,N}$	[mm]	50.00
SHEAR LOAD			
Characteristic resistance with lever arm	$M_{Rk,s}$	[Nm]	31.80
Partial safety factor	γ_{Ms}	-	1.50

Minimum embedment depth - hollow concrete slab

Size			5
Min. installation depth	h_{nom}	[mm]	35.0
Effective embedment depth	h_{ef}	[mm]	24.7
Min. bottom flange thickness	$\geq d_b$	[mm]	35.0
TENSION AND SHEAR LOAD			
HOLLOW CONCRETE SLAB C30/37			
Characteristic resistance	F_{Rk}	[kN]	5.00
HOLLOW CONCRETE SLAB C40/50			
Characteristic resistance	F_{Rk}	[kN]	6.00
HOLLOW CONCRETE SLAB C50/60			
Characteristic resistance	F_{Rk}	[kN]	6.00
Installation safety factor	γ_2	-	1.00
Spacing	$s_{cr,N}$	[mm]	100.00
Edge distance	$c_{cr,N}$	[mm]	50.00
SHEAR LOAD			
Characteristic resistance with lever arm	$M_{Rk,s}$	[Nm]	31.80
Partial safety factor	γ_{Ms}	-	1.50