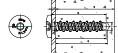


R-LX-PX-ZP Zinc plated Pan-Head Concrete Screw Anchor

Self-tapping concrete screwbolt









Product information

Features and benefits

- Time-efficient through-fixing installation with 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
- 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
- Hollow-core Slab C30/37-C50/60
- Reinforced concrete
- Unreinforced concrete

Also suitable for use in:

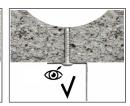
Natural Stone (after site testing)

Installation guide









- 1. Drill the hole with rotary hammer drilling machine. Drill to a required depth.
- 2. Blow out dust at least 4 times with a hand pump.
- 3. Tighten the anchor to the fixture.
- 4. After installation a further turning of the screw must not be possible. The head of the screw must be in contact with the fixture and is not damaged.



Product information

Size Product Co		And	hor	Fixture			
	Broduct Code	Diameter	Length	Max. thick	ness t _{fix} for:	Hole diameter	
	Product code	d	L	h _{nom,red}	h _{nom,std}	d _f	
		[mm]	[mm]	[mm]	[mm]	[mm]	
	R-LX-06X035-PX-ZP	7.5	35	39	55	9	
6	R-LX-06X040-PX-ZP	7.5	40	1	-	9	
0	R-LX-06X050-PX-ZP	7.5	50	7	-	9	
	R-LX-06X060-PX-ZP	7.5	60	17	5	9	

Installation data

Normal concrete

Mornial concrete			
Size			6
Thread diameter	d	[mm]	7.5
Hole diameter in substrate	d _o	[mm]	6
Screw drive	-	[-]	T30
Head diameter		[mm]	17
Max. torque for impact screw driver	T _{imp,max}	[Nm]	400
REDUCED EMBEDMENT DEPTH			
Min. hole depth in substrate	h _{o,r}	[mm]	50
Real hole depth in substrate	h _o	[mm]	L + 10 - t _{fix}
Min. installation depth	h _{nom,r}	[mm]	39
Min. substrate thickness	h _{min,r}	[mm]	80
Min. spacing	S _{min,r}	[mm]	45
Min. edge distance	C _{min,r}	[mm]	45
MINIMUM EMBEDMENT DEPTH			
Min. hole depth in substrate	h _{o,min}	[mm]	45
Real hole depth in substrate	h _o	[mm]	L + 10 - t _{fix}
Min. installation depth	h _{nom,min}	[mm]	35
Min. substrate thickness	hmin,min	[mm]	80
Min. spacing	S _{min,min}	[mm]	45
Min. edge distance	C _{min,min}	[mm]	45
STANDARD EMBEDMENT DEPTH			
Min. hole depth in substrate	h _{o,s}	[mm]	65
Real hole depth in substrate	h _o	[mm]	L + 10 - t _{fix}
Min. installation depth	h _{nom,s}	[mm]	55
Min. substrate thickness	h _{min,s}	[mm]	100
Min. spacing	S _{min, s}	[mm]	45
Min. edge distance	C _{min, s}	[mm]	45

Hollow concrete slab

Size								
Thread diameter	d	[mm]	7.5					
Hole diameter in substrate	d _o	[mm]	6					
Screw drive	-	[-]	T30					
Head diameter		[mm]	17					
Max. torque for impact screw driver	T _{imp,max}	[Nm]	400					
MINIMUM EMBEDMENT DEPTH								
Min. hole depth in substrate	h _{o,min}	[mm]	45					
Real hole depth in substrate	h _o	[mm]	L + 10 - t _{fix}					
Min. installation depth	h _{nom,min}	[mm]	35					
Minimum distance between anchor groups	a _{min,min}	[mm]	100					
Min. spacing	S _{min,min}	[mm]	100					
Min. edge distance	C _{min,min}	[mm]	50					



Mechanical properties

Size	6		
Nominal ultimate tensile strength - tension	F _{uk}	[N/mm²]	1250
Nominal yield strength - tension	f _{yk}	[N/mm²]	1100
Cross sectional area - tension	A _s	[mm²]	28.3
Elastic section modulus	W_{el}	[mm³]	21.2
Characteristic bending resistance	M ⁰ _{Rk,s}	[Nm]	31.8
Design bending resistance	М	[Nm]	21.2

Basic performance data

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

Performance data for single anchor		
Size		6
CRACKED AND NON-CRACKED C	ONCRETE	
Reduced embedment depth h_{nom}	[mm]	39.00
Minimum embedment depth h_{nom}	[mm]	35.00
HOLLOW CORE SLAB		
Minimum embedment depth h_{nom}	[mm]	35.00
NON-CRACKED CONCRETE C20/2	25	
Standard embedment depth \mathbf{h}_{nom}	[mm]	55.00
Reduced embedment depth h_{nom}	[mm]	35.00
CRACKED CONCRETE C20/25		
Standard embedment depth \mathbf{h}_{nom}	[mm]	55.00
Reduced embedment depth h_{nom}	[mm]	35.00
		CHARACTERISTIC LOAD
	-	TENSION AND SHEAR LOAD F _{Rk}
CRACKED AND NON-CRACKED C	ONCRETE	
Reduced embedment depth	[kN]	6.00
Minimum embedment depth	[kN]	3.00
HOLLOW CORE SLAB		
Minimum embedment depth	[kN]	6.00
		TENSION LOAD N _{Rk}
NON-CRACKED CONCRETE C20/2	25	
Standard embedment depth	[kN]	12.00
Reduced embedment depth	[kN]	8.90
CRACKED CONCRETE C20/25		
Standard embedment depth	[kN]	7.00
Reduced embedment depth	[kN]	6.23
		SHEAR LOAD V _{Rk}
NON-CRACKED CONCRETE C20/2	25	
Standard embedment depth	[kN]	13.39
Reduced embedment depth	[kN]	8.90
CRACKED CONCRETE C20/25		
Standard embedment depth	[kN]	9.37
Reduced embedment depth	[kN]	6.23



Basic performance data

Size		6							
		DESIGN LOAD							
TENSION AND SHEAR LOAD F _{Rd}									
CRACKED AND NON-CRACKED CO	NCRETE								
Reduced embedment depth	[kN]	4.00							
Minimum embedment depth	[kN]	2.00							
HOLLOW CORE SLAB									
Minimum embedment depth	[kN]	4.00							
TENSION LOAD N _{Rd}									
NON-CRACKED CONCRETE C20/25	5								
Standard embedment depth	[kN]	8.00							
Reduced embedment depth	[kN]	5.94							
CRACKED CONCRETE C20/25									
Standard embedment depth	[kN]	4.67							
Reduced embedment depth	[kN]	4.16							
		SHEAR LOAD V _{Rd}							
NON-CRACKED CONCRETE C20/2	5								
Standard embedment depth	[kN]	8.93							
Reduced embedment depth	[kN]	5.94							
CRACKED CONCRETE C20/25									
Standard embedment depth	[kN]	6.25							
Reduced embedment depth	[kN]	4.16							
		RECOMMENDED LOAD							
		TENSION AND SHEAR LOAD F _{rec}							
CRACKED AND NON-CRACKED CO	NCRETE								
Reduced embedment depth	[kN]	2.85							
Minimum embedment depth	[kN]	1.42							
HOLLOW CORE SLAB									
Minimum embedment depth	[kN]	2.85							
		MEAN ULTIMATE LOAD							
		TENSION LOAD N _{Ru,m}							
NON-CRACKED CONCRETE C20/2	5								
Standard embedment depth	[kN]	14.80							
Reduced embedment depth	[kN]	12.22							
CRACKED CONCRETE C20/25									
Standard embedment depth	[kN]	11.10							
Reduced embedment depth	[kN]	8.60							
		SHEAR LOAD V _{Ru,m}							
NON-CRACKED CONCRETE C20/2	5								
Standard embedment depth	[kN]	18.37							
Reduced embedment depth	[kN]	12.22							
CRACKED CONCRETE C20/25									
Standard embedment depth	[kN]	12.93							
Reduced embedment depth	[kN]	8.60							



Design performance data

Normal concrete

Size				6	
Min. installation depth	h _{nom}	[mm]	35.00	39.00	55.00
Effective embedment depth	h _{ef}	[mm]	24.70	30.00	42.00
	-		TENSION AND SHEAR LOAD		
Characteristic resistance	F _{Rk}	[kN]	3.00	6.00	_
Installation safety factor		-	1.00	1.00	_
	Y _{inst}	-	1.00	1.08	_
Increasing factors for N _{Rd,p} - C30/37	Ψς	_	1.00	1.15	
Increasing factors for N _{Rd,p} - C40/50	Ψ,	-	1.00	1.19	-
Increasing factors for N _{Rd,p} - C50/60	Ψ,		100.0	90.00	-
Spacing	S _{cr,N}	-			<u>-</u>
Edge distance	C _{cr,N}	-	50.00	45.00	-
			TENSION LOAD		
STEEL FAILURE					
Characteristic resistance	N _{Rk,s}	[kN]	35.40	-	35.40
Partial safety factor	γ_{Ms}	-	1.40	-	1.40
PULL-OUT FAILURE; NON-CRACKED C	ONCRE	TE C20/2	25		
Characteristic resistance	$N_{\rm Rk,p}$	[kN]	-	-	12.00
PULL-OUT FAILURE; CRACKED CONCE	RETE C2	0/25			
Characteristic resistance	$N_{Rk,p}$	[kN]	-	-	7.00
PULL-OUT FAILURE					
Installation safety factor	Y _{inst}	-	1.00	-	1.00
Increasing factors for N _{Rd,p} - C30/37	Ψς	-	1.08	-	1.08
Increasing factors for N _{Rd,p} - C40/50	Ψͺ	-	1.15	-	1.15
Increasing factors for N _{Rd,p} - C50/60	Ψ,	-	1.19	-	1.19
CONCRETE CONE FAILURE					
Installation safety factor	Y _{inst}	-	1.00	-	1.00
Factor for cracked concrete	k _{cr,N}	-	7.70	-	7.70
Factor for non-cracked concrete	k _{ucr,N}	-	11.00	-	11.00
Spacing	S _{cr,N}	[mm]	90.00	-	126.0
Edge distance	C _{cr,N}	[mm]	45.00	-	63.00
CONCRETE SPLITTING FAILURE					
Installation safety factor	Y _{inst}	-	1.00	-	1.00
Spacing	S _{cr,sp}	[mm]	90.00	-	126.0
Edge distance	C _{cr,sp}	[mm]	45.00	-	63.00
			SHEAR LOAD		
STEEL FAILURE					
Characteristic resistance with lever arm	М	[Nm]	31.80	31.80	31.80
Partial safety factor	M _{Rk,s}	-	1.50	1.50	1.50
Characteristic resistance without lever arm	Y _{Ms}		17.70	-	17.70
Ductility factor	V _{Rk,s}	[kN]	0.80	-	0.80
CONCRETE PRY-OUT FAILURE	k ₇		0.80	•	0.60
	l.	_	1.00	<u>-</u>	1.00
Factor	k .,		1.00	-	1.00
Installation safety factor	Y _{inst}		1.00	-	1.00
CONCRETE EDGE FAILURE	C	F 3	42.22		25.00
Effective length of anchor	l _f	[mm]	43.00	-	35.00
Anchor diameter	d _{nom}	[mm]	6.00	-	6.00
Installation safety factor	γ_{inst}	-	1.00	-	1.00



Design performance data

Characteristic Resistance under fire exposure in concrete C20/25 to C50/60

Specing	Size				6		
Spacing Spac			TEN	SION AND SHEAR LOAD			
Edge distance							
Effective embedment depth					-	-	
Effective embedment depth h _g [mm] 30.00 24.70 42.00 TENSION LOAD	Edge distance	C _{cr}	[mm]		-	-	
TENSION LOAD				R (for EI) = 30 min			
Characteristic resistance	Effective embedment depth	h _{ef}	[mm]	30.00	24.70	42.00	
Characteristic resistance				TENSION LOAD			
Pull-OUT FAILURE Characteristic resistance N _{m.p.} [kN] . 1.38 1.75	STEEL FAILURE						
Characteristic resistance N _{Mo.2} [kN] - 1.38 1.75 SHEAR LOAD STEEL FAILURE Characteristic resistance with out lever arm V _{Mix} [kN] - 0.28 0.28 TENSION AND SHEAR LOAD Characteristic resistance with lever arm F _m [kN] 0.28 - - - R (for EI) = 60 min Effective embedment depth h _{Mix} [kN] 0.28 - - - TENSION LOAD STEEL FAILURE Characteristic resistance N _{Mix} [kN] - 0.25 0.25 0.25 STEEL FAILURE Characteristic resistance with lever arm V _{Mix} [kN] - 0.25 0.25 0.25 Characteristic resistance with lever arm V _{Mix} [kN] - 0.25 0.25 0.25 Characteristic resistance with lever arm V _{Mix} [kN] 0.25 -	Characteristic resistance	$N_{\rm Rk,s}$	[kN]	-	0.28	0.28	
SHEAR LOAD	PULL-OUT FAILURE						
Characteristic resistance without lever arm V	Characteristic resistance	$N_{\rm Rk,p}$	[kN]	-	1.38	1.75	
Characteristic resistance without lever arm Vmax [kN] . 0.28 0.28				SHEAR LOAD			
Characteristic resistance with lever arm M _{M_{M,S}} [Nm] - 0.25 0.25 TENSION AND SHEAR LOAD Characteristic resistance F _m [kN] 0.28 - - Effective embedment depth h _{eff} [mm] 30.00 24.70 42.00 TENSION LOAD STEEL FAILURE Characteristic resistance N _{M_{M,S}} [kN] - 0.25 0.25 SHEAR LOAD TENSION AND SHEAR LOAD Characteristic resistance without lever arm V _{M_{M,S}} [kN] - 0.25 0.25 0.25 Characteristic resistance with lever arm M _{M,S} [kN] - 0.23 0.23 0.23 Characteristic resistance with lever arm M _{M,S} [kN] 0.25 - - - Effective embedment depth h _Q [mm] 30.00 24.70 42.00 TENSION LOAD TENSION LOAD </td <td>STEEL FAILURE</td> <td></td> <td></td> <td></td> <td></td> <td></td>	STEEL FAILURE						
Tension and Shear Load Characteristic resistance Fime [kN] 0.28 - - -	Characteristic resistance without lever arm	V _{Rk,s}	[kN]	-	0.28	0.28	
Characteristic resistance F	Characteristic resistance with lever arm	$M_{\rm Rk,s}$	[Nm]	-	0.25	0.25	
## R (for EI) = 60 min Effective embedment depth			TEN	SION AND SHEAR LOAD			
Tension Load STEEL FAILURE Characteristic resistance N _{Max} [kN] - 0.25 0.25	Characteristic resistance	F _{Rk}	[kN]	0.28	-	-	
Tension Load STEEL FAILURE				R (for EI) = 60 min			
Tension Load STEEL FAILURE	Effective embedment depth	h.,	[mm]	30.00	24.70	42.00	
STEL FAILURE Characteristic resistance N _{Ric.} [kN] - 0.25 0.25 PULL-OUT FAILURE Characteristic resistance N _{Ric.} [kN] - 1.38 1.75 SHEAR LOAD STEL FAILURE Characteristic resistance with lever arm V _{Ric.} [kN] - 0.25 0.25 Characteristic resistance with lever arm M _{Ric.} [kN] 0.25 - - - Characteristic resistance F _{Ric.} [kN] 0.25 - - - - Effective embedment depth h _{eff} [mm] 30.00 24.70 42.00 42.00 -		ei		TENSION LOAD			
Characteristic resistance N _{RL} [kN] - 0.25 0.25 PULL-OUT FAILURE Characteristic resistance N _{RL} [kN] - 1.38 1.75 SHEAR LOAD STEEL FAILURE Characteristic resistance with lever arm M _{RL} [kN] - 0.25 0.25 0.23 Characteristic resistance with lever arm M _{RL} [kN] - 0.23 0.23 Characteristic resistance F _{RL} [kN] 0.25 - - - R (for EI) = 90 min Effective embedment depth h _{ef} [mm] 30.00 24.70 42.00 STEEL FAILURE Characteristic resistance N _{RL} [kN] - 0.20 0.20 SHEAR LOAD SHEAR LOAD SHEAR LOAD SHEAR LOAD SHEAR LOAD SHEAR LOAD SHEA	CTEEL EALLINE			12.10.011.201.5			
PULL-OUT FAILURE Characteristic resistance N _{RLD} [kN] - 1.38 1.75 SHEAR LOAD STEEL FAILURE Characteristic resistance with lever arm V _{RLS} [kN] - 0.25 0.23 0.23 Characteristic resistance with lever arm M _{RLS} [kN] - 0.23 0.23 Characteristic resistance F _{RR} [kN] 0.25 - - - R (for EI) = 90 min Effective embedment depth h _{eff} [mm] 30.00 24.70 42.00 TENSION LOAD STEEL FAILURE Characteristic resistance N _{RS,0} [kN] - 0.20 0.20 PULL-OUT FAILURE SHEAR LOAD SHEAR LOAD SHEAR LOAD SHEAR LOAD SHEAR LOAD SHEAR LOAD SHEAR LOAD <th colspan<="" td=""><td></td><td>N</td><td>[kN]</td><td><u>.</u></td><td>0.25</td><td>0.25</td></th>	<td></td> <td>N</td> <td>[kN]</td> <td><u>.</u></td> <td>0.25</td> <td>0.25</td>		N	[kN]	<u>.</u>	0.25	0.25
Characteristic resistance $N_{RL,D}$ $[kN]$ - 1.38 1.75 SHEAR LOAD STEEL FAILURE Characteristic resistance without lever arm $V_{RL,S}$ $[kN]$ - 0.25 0.25 Characteristic resistance with lever arm $M_{RL,S}$ $[Nm]$ - 0.23 0.23 TENSION AND SHEAR LOAD Characteristic resistance F_{RR} $[kN]$ 0.25 R (for EI) = 90 min Effective embedment depth h_{ef} $[mm]$ 30.00 24.70 42.00 TENSION LOAD STEEL FAILURE Characteristic resistance $N_{RL,S}$ $[kN]$ - 0.20 0.20 PULL-OUT FAILURE Characteristic resistance $N_{RL,D}$ $[kN]$ - 1.38 1.75 SHEAR LOAD STEEL FAILURE Characteristic resistance without lever arm $V_{RL,S}$ $[kN]$ - 0.20 0.20 Characteristic resistance without lever arm $V_{RL,S}$ $[kN]$ - 0.20 0.20 Characteristic resistance with lever arm $V_{RL,S}$ $[kN]$ - 0.20 0.20 Characteristic resistance with lever arm $V_{RL,S}$ $[kN]$ - 0.20 0.20 Characteristic resistance with lever arm $V_{RL,S}$ $[kN]$ - 0.20 0.20 Characteristic resistance with lever arm $V_{RL,S}$ $[kN]$ - 0.20 0.20 Characteristic resistance with lever arm $V_{RL,S}$ $[kN]$ - 0.20 0.20 Characteristic resistance with lever arm $V_{RL,S}$ $[kN]$ - 0.18 0.18		Rk,s	[]		0125	UIL5	
SHEAR LOAD		N _{ex}	[kN]	_	1.38	1.75	
STEEL FAILURE Characteristic resistance without lever arm $V_{g_{k,a}}$ $[kN]$ - 0.25 0.25 Characteristic resistance with lever arm $M_{g_{k,a}}$ $[Nm]$ - 0.23 0.23 TENSION AND SHEAR LOAD Characteristic resistance F_{g_k} $[kN]$ 0.25 R (for EI) = 90 min Effective embedment depth h_{ef} $[mm]$ 30.00 24.70 42.00 TENSION LOAD STEEL FAILURE Characteristic resistance $N_{g_{k,a}}$ $[kN]$ - 0.20 0.20 PULL-OUT FAILURE Characteristic resistance $N_{g_{k,a}}$ $[kN]$ - 1.38 1.75 SHEAR LOAD STEEL FAILURE Characteristic resistance without lever arm $V_{g_{k,a}}$ $[kN]$ - 0.20 0.20 Characteristic resistance without lever arm $V_{g_{k,a}}$ $[kN]$ - 0.20 0.20 Characteristic resistance with lever arm $V_{g_{k,a}}$ $[kN]$ - 0.20 0.20 Characteristic resistance with lever arm $V_{g_{k,a}}$ $[kN]$ - 0.20 0.20 Characteristic resistance with lever arm $V_{g_{k,a}}$ $[kN]$ - 0.20 0.20		нк,р	. ,	SHEARLOAD			
Characteristic resistance without lever arm $V_{Rk,s}$ $[kN]$ - 0.25 0.25 0.25 Characteristic resistance with lever arm $M_{Rk,s}$ $[Nm]$ - 0.23 0.23 TENSION AND SHEAR LOAD Characteristic resistance F_{Rk} $[kN]$ 0.25	STEEL FAILURE						
Characteristic resistance with lever arm $M_{Rk,\pm}$ [Nm] - 0.23 0.23 0.23 TENSION AND SHEAR LOAD Characteristic resistance F_{Rk} [kN] 0.25 R (for El) = 90 min Effective embedment depth h_{ef} [mm] 30.00 24.70 42.00 TENSION LOAD STEEL FAILURE Characteristic resistance $N_{Rk,\pm}$ [kN] - 0.20 0.20 PULL-OUT FAILURE Characteristic resistance $N_{Rk,0}$ [kN] - 1.38 1.75 SHEAR LOAD STEEL FAILURE Characteristic resistance without lever arm $V_{Rk,\pm}$ [kN] - 0.20 0.20 Characteristic resistance without lever arm $V_{Rk,\pm}$ [kN] - 0.20 0.20 Characteristic resistance with lever arm $V_{Rk,\pm}$ [kN] - 0.20 0.20 Characteristic resistance with lever arm $V_{Rk,\pm}$ [kN] - 0.20 0.20 Characteristic resistance with lever arm $V_{Rk,\pm}$ [kN] - 0.18 0.18		V	[kN]	_	0.25	0.25	
TENSION AND SHEAR LOAD Characteristic resistance FR (for EI) = 90 min Effective embedment depth her [mm] 30.00 24.70 42.00 TENSION LOAD STEEL FAILURE Characteristic resistance NRL,s [kN] - 0.20 0.20 PULL-OUT FAILURE Characteristic resistance NRL,D [kN] - 1.38 1.75 SHEAR LOAD STEEL FAILURE Characteristic resistance without lever arm VRL,s [kN] - 0.20 0.20 Characteristic resistance without lever arm VRL,s [kN] - 0.20 0.20 Characteristic resistance without lever arm VRL,s [kN] - 0.20 0.20 Characteristic resistance with lever arm MRL,s [Nm] - 0.18 0.18				_			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	characteristic resistance with lever drill	Rk,s			0.23	0.23	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sharehaidi waitawa	-					
Effective embedment depth h _{ef} [mm] 30.00 24.70 42.00 TENSION LOAD STEEL FAILURE Characteristic resistance N _{Rk,s} [kN] - 0.20 0.20 PULL-OUT FAILURE Characteristic resistance N _{Rk,p} [kN] - 1.38 1.75 SHEAR LOAD STEEL FAILURE Characteristic resistance without lever arm V _{Rk,s} [kN] - 0.20 0.20 Characteristic resistance with lever arm M _{Rk,s} [Nm] - 0.18 0.18	Characteristic resistance	F _{Rk}	[kN]		-	-	
TENSION LOAD							
STEEL FAILURE Characteristic resistance N _{Rk,s} [kN] - 0.20 0.20 PULL-OUT FAILURE Characteristic resistance N _{Rk,p} [kN] - 1.38 1.75 SHEAR LOAD STEEL FAILURE Characteristic resistance without lever arm V _{Rk,s} [kN] - 0.20 0.20 Characteristic resistance with lever arm M _{Rk,s} [Nm] - 0.18 0.18	Effective embedment depth	h _{ef}	[mm]	30.00	24.70	42.00	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				TENSION LOAD			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	STEEL FAILURE						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Characteristic resistance	N _{Rk,s}	[kN]	·	0.20	0.20	
STEEL FAILURE Characteristic resistance without lever arm V _{Rk,s} [kN] - 0.20 0.20 Characteristic resistance with lever arm M _{Rk,s} [Nm] - 0.18 0.18	Characteristic resistance	N _{Rk,p}	[kN]	•	1.38	1.75	
Characteristic resistance without lever arm $V_{Rk,s}$ [kN] - 0.20 0.20 Characteristic resistance with lever arm $M_{Rk,s}$ [Nm] - 0.18 0.18				SHEAR LOAD			
Characteristic resistance with lever arm M _{Rk,s} [Nm] - 0.18 0.18	STEEL FAILURE						
No.5	Characteristic resistance without lever arm	$V_{\rm Rk,s}$	[kN]	-	0.20	0.20	
TENSION AND SHEAP LOAD	Characteristic resistance with lever arm	M _{Rk,s}	[Nm]	-	0.18	0.18	
TENSION AND SHEAK LOAD			TEN	SION AND SHEAR LOAD			
Characteristic resistance F _{Rk} [kN] 0.20 -	Characteristic resistance	F _{Rk}	[kN]	0.20	-	-	



Design performance data

Size			6						
			R (for EI) = 120 min						
Effective embedment depth	h _{ef}	[mm]	30.00	24.70	42.00				
TENSION LOAD									
STEEL FAILURE									
Characteristic resistance	N _{Rk,s}	[kN]	-	0.14	0.14				
PULL-OUT FAILURE	PULL-OUT FAILURE								
Characteristic resistance	$N_{Rk,p}$	[kN]	-	1.10	1.40				
			SHEAR LOAD						
STEEL FAILURE									
Characteristic resistance without lever arm	$V_{\rm Rk,s}$	[kN]	-	0.14	0.14				
Characteristic resistance with lever arm	$M_{Rk,s}$	[Nm]	-	0.13	0.13				
TENSION AND SHEAR LOAD									
Characteristic resistance	F _{Rk}	[kN]	0.14	-	-				

Hollow concrete slab

Size			6			
Min. installation depth	b	[mm]	35,00			
·	h _{nom}					
Effective embedment depth	h _{ef}	[mm]	24.70			
Min. bottom flange thickness	d _b	[mm]	35.00			
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	Υ _{inst}	-	1.00			
Spacing	S _{cr,N}	[mm]	100.00			
Edge distance	C _{cr,N}	[mm]	50.00			
			SHEAR LOAD			
STEEL FAILURE						
Characteristic resistance with lever arm	$M_{Rk,s}$	[Nm]	31.80			
Partial safety factor	Υ _{Ms}	-	1.50			

Product commercial data

Product Code	Anchor		Quantity [pcs]			Bar Codes		
	Length [mm]	Вох	Outer	Pallet	Вох	Outer	Pallet	Bai Codes
R-LX-06X035-PX-ZP	35	100	100	38400	1.28	1.28	522.7	5906675451053
R-LX-06X040-PX-ZP	40	100	100	38400	1.28	1.28	521.5	5906675490717
R-LX-06X050-PX-ZP	50	100	100	25600	1.61	1.61	441.1	5906675451060
R-LX-06X060-PX-ZP	60	100	100	38400	1.32	1.32	536.9	5906675495460