DRAFT EDITION 01 - DECEMBER 2019

LIFTING SYSTEM EDILMATIC EMZ

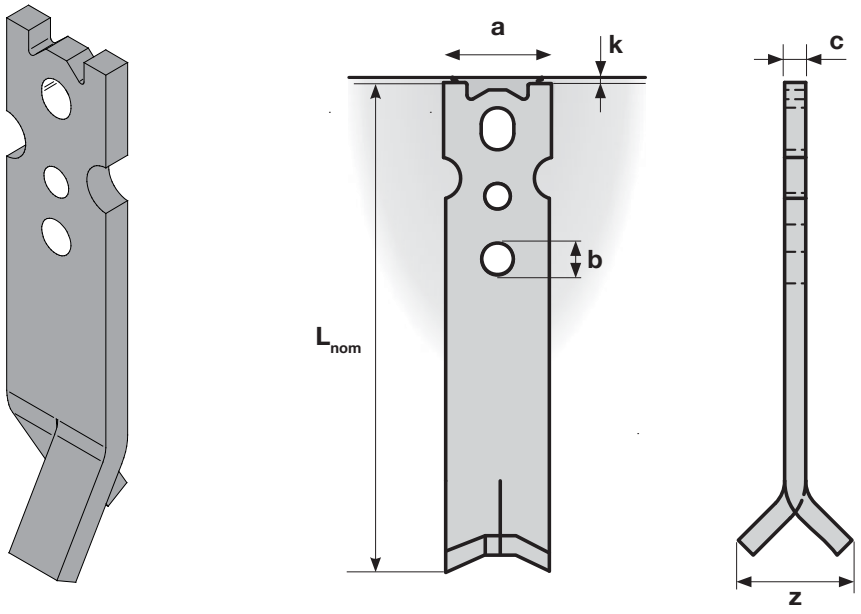
EDILMATIC

Content

EDILMATIC EMZ LIFTING SYSTEM

ZER erection anchor for lifting and tilting

Types and dimensions

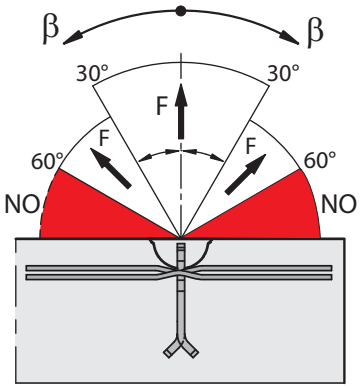


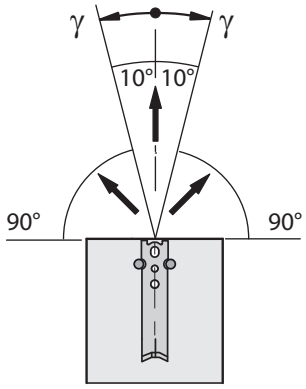
Load group (ton)	Anchor type	Code	Dimensions and sizes (mm)					
			a	b	c	z	L_{nom}	k
2.5 t	1.4 t	ZER1.4G	55	15	6	60	200	10
	2.5 t	ZER2.5G	55	15	12	70	230	10
5.0 t	4.0 t	ZER4G	75	19	15	80	270	10
	5.0 t	ZER5G	75	19	17.5	80	290	10
10 t	7.5 t	ZER7.5G	120	29	15	110	320	15
	10.0 t	ZER10G	120	29	20	110	390	15
26 t	12.5 t	ZER12.5G	150	35	20	140	500	15
	17.0 t	ZER17G	150	35	25	140	500	15
	22.0 t	ZER22G	150	35	30	140	500	15

EDILMATIC EMZ LIFTING SYSTEM

ZER erection anchor for lifting and tilting

Direction of loading and design loads





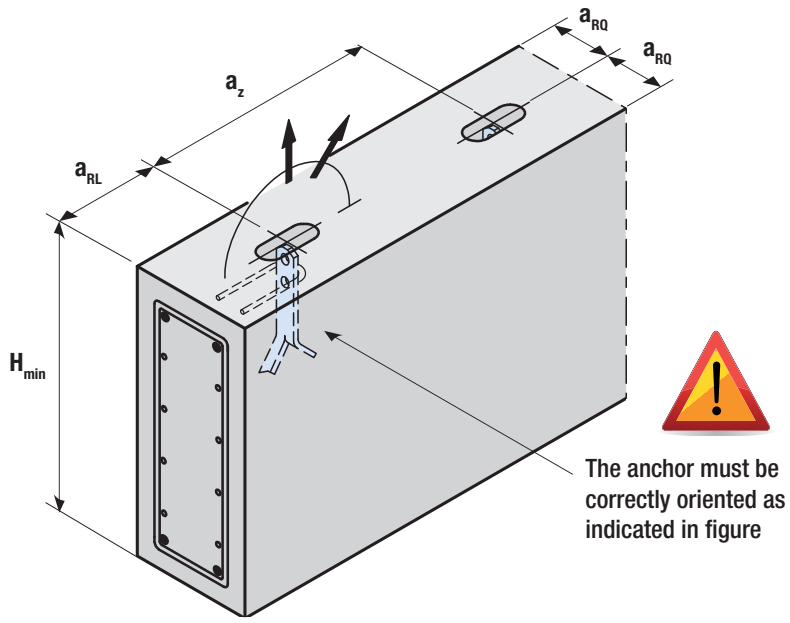
For tilting
[10°≤ γ ≤ 90°]
see page 7

Load group	Anchor type	F_{max} (kN) β ≤ 30° γ ≤ 10°	F_{max} (kN) 30°< β < 60°
2.5 t	1.4 t	14	11.2
	2.5 t	25	20
5.0 t	4.0 t	40	32
	5.0 t	50	40
10 t	7.5 t	75	60
	10.0 t	100	80
26 t	12.5 t	125	100
	17.0 t	170	136
	22.0 t	220	176

EDILMATIC EMZ LIFTING SYSTEM

ZER erection anchor for lifting and tilting

Positioning prescriptions and edge distances

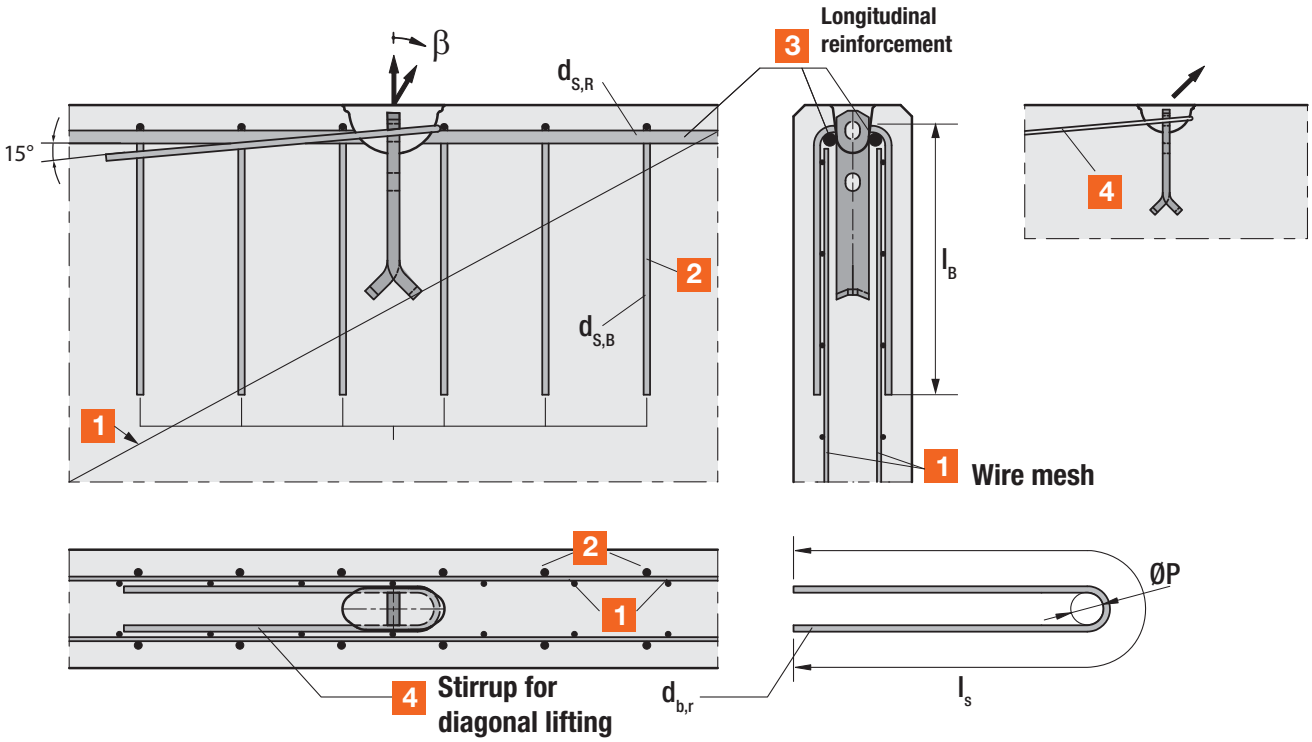


Load group	Anchor type	L_{nom} mm	a_z mm	a_{RL} mm	a_{RQ} mm	H_{min} mm
2.5 t	1.4 t	200	700	350	50	400
	2.5 t	230	800	400	60	460
5.0 t	4.0 t	270	950	475	75	540
	5.0 t	290	1000	500	80	580
10 t	7.5 t	320	1200	600	90	640
	10.0 t	390	1500	750	100	780
26 t	12.5 t	500	1500	750	120	1000
	17.0 t	500	1500	750	150	1000
	22.0 t	500	1500	750	180	1000

EDILMATIC EMZ LIFTING SYSTEM

ZER erection anchor for lifting and tilting

Additional reinforcement

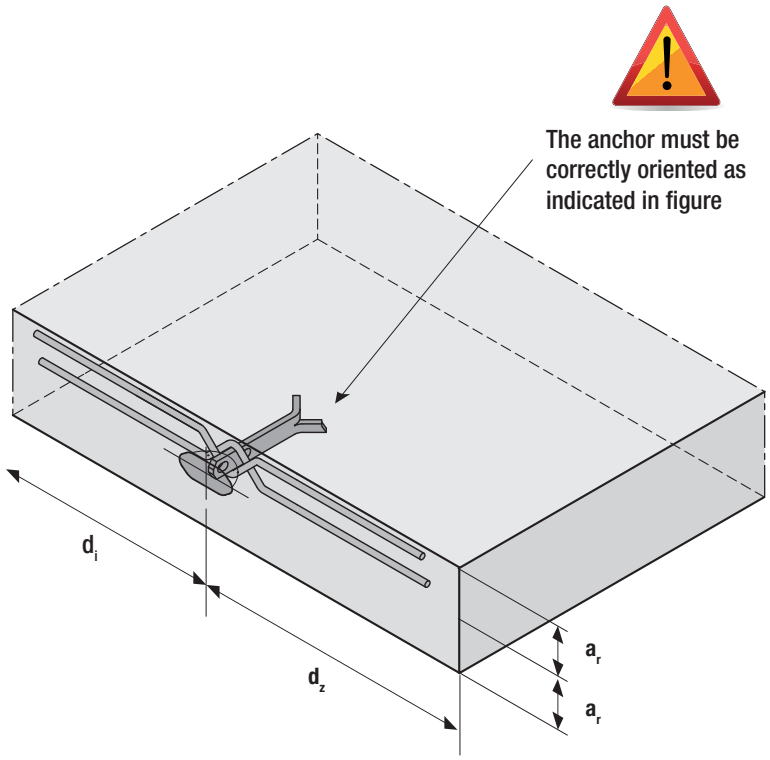


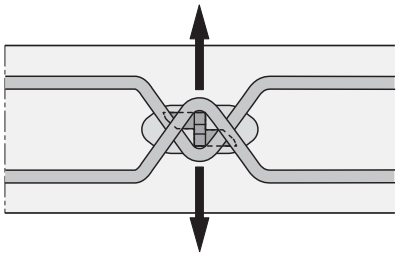
Load group	Anchor type	1 Wire mesh		2 Longitudinal stirrups			3 Longitudinal reinforcement	4 Stirrup for diagonal lifting		
		Ø mm	A_s mm²/m	$n°_{min}$	$d_{S,B}$ mm	l_B mm	$d_{S,R}$ mm	ØP mm	d_{br} mm	l_s mm
2.5 t	1.4 t	6	188	2	6	500	2 x Ø8	47	6	900
	2.5 t	6	188	2	8	600	2 x Ø8	47	8	1200
5.0 t	4.0 t	6	188	2	10	700	2 x Ø10	53	10	1200
	5.0 t	6	188	2	10	800	2 x Ø10	53	12	1550
10 t	7.5 t	6	188	4	10	800	2 x Ø10	71	14	2000
	10.0 t	6	188	6	10	800	2 x Ø12	71	16	2300
26 t	12.5 t	8	335	6	10	800	2 x Ø14	116	20	2300
	17.0 t	8	335	6	12	1000	2 x Ø14	116	24	2600
	22.0 t	10	524	6	12	1200	2 x Ø16	116	28	3000

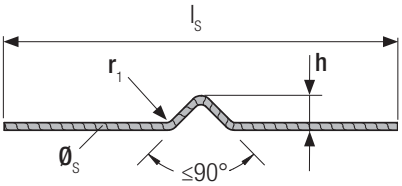
EDILMATIC EMZ LIFTING SYSTEM

ZER erection anchor for lifting and tilting

Prescriptions for tilting and lifting





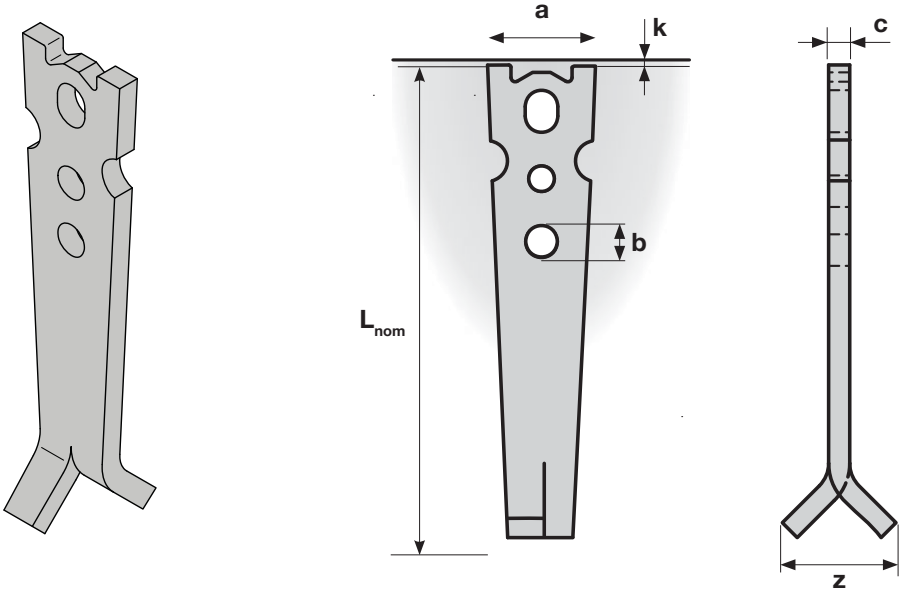


Load group	Anchor type	Load (kN)	Positioning distances			Stirrups for tilting		
			d_z mm	d_i mm	a_r mm	$Ø_s$ mm	r_1 mm	l_s mm
2.5 t	1.4 t	7.0	350	700	50	10	25	700
	2.5 t	12.5	400	800	60	12	25	800
5.0 t	4.0 t	20.0	475	950	75	14	32	950
	5.0 t	25.0	500	1000	80	16	32	1000
10 t	7.5 t	37.5	600	1200	90	20	40	1200
	10.0 t	50.0	750	1500	100	20	40	1500
26 t	12.5 t	62.5	750	1500	120	25	50	1800
	17.0 t	85.0	750	1500	150	25	50	1800
	22.0 t	110.0	750	1500	180	28	50	1800

EDILMATIC EMZ LIFTING SYSTEM

ZER-C conical erection anchor for lifting and tilting

Types and sizes

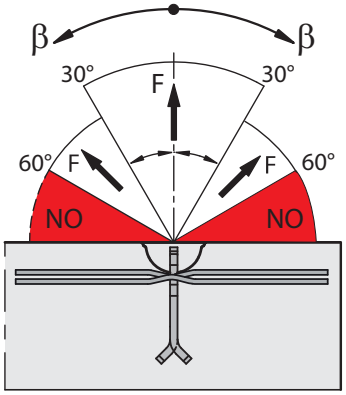


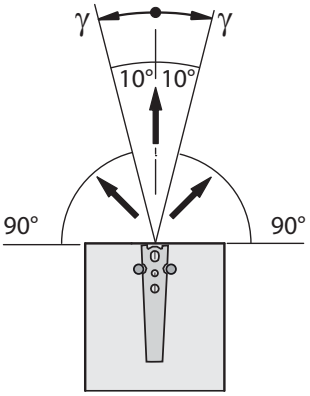
Load group	Anchor type	Code	Dimensions and sizes (mm)					
			a	b	c	z	L_{nom}	k
2.5 t	1.4 t	ZER-C1.4G	55	15	6	60	200	10
	2.5 t	ZER-C2.5G	55	15	12	70	230	10
5.0 t	4.0 t	ZER-C4G	75	19	15	80	270	10
	5.0 t	ZER-C5G	75	19	17.5	80	290	10
10 t	7.5 t	ZER-C7.5G	120	29	15	110	320	15
	10.0 t	ZER-C10G	120	29	20	110	390	15
26 t	12.5 t	ZER-C12.5G	150	35	20	140	500	15
	17.0 t	ZER-C17G	150	35	25	140	500	15
	22.0 t	ZER-C22G	150	35	30	140	500	15

EDILMATIC EMZ LIFTING SYSTEM

ZER-C conical erection anchor for lifting and tilting

Direction of loading and design loads





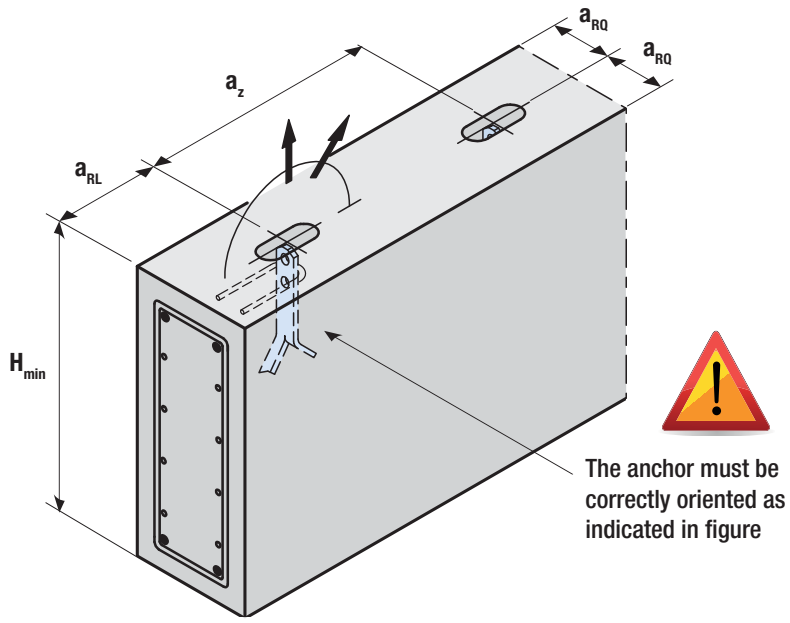
For tilting
[10°≤ γ ≤ 90°]
see page 12

Load group	Anchor type	F_{max} (kN) $\beta \leq 30°$ $\gamma \leq 10°$	F_{max} (kN) $30° < \beta < 60°$
2.5 t	1.4 t	14	11.2
	2.5 t	25	20
5.0 t	4.0 t	40	32
	5.0 t	50	40
10 t	7.5 t	75	60
	10.0 t	100	80
26 t	12.5 t	125	100
	17.0 t	170	136
	22.0 t	220	176

EDILMATIC EMZ LIFTING SYSTEM

ZER-C conical erection anchor for lifting and tilting

Positioning prescriptions and edge distances

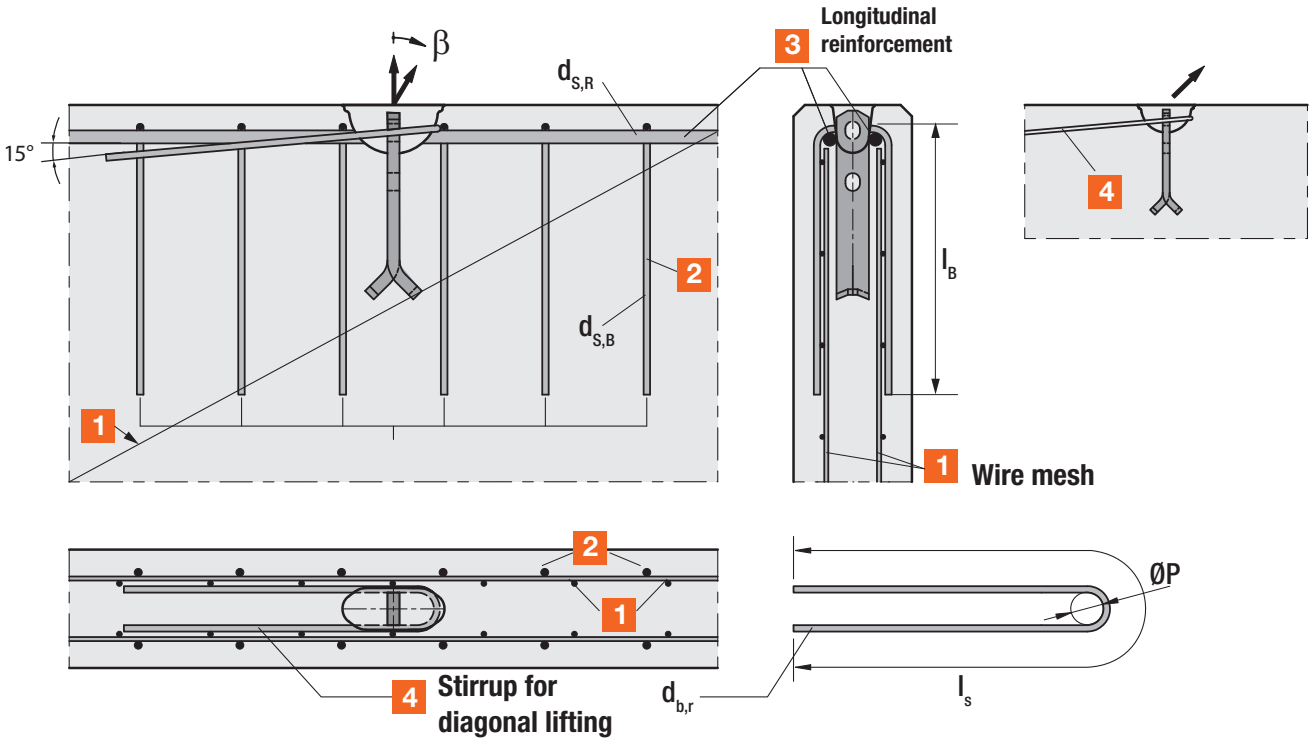


Load group	Anchor type	L_{nom} (mm)	a_z (mm)	a_{RL} (mm)	a_{RQ} (mm)	H_{min} (mm)
2.5 t	1.4 t	200	700	350	50	400
	2.5 t	230	800	400	60	460
5.0 t	4.0 t	270	950	475	75	540
	5.0 t	290	1000	500	80	580
10 t	7.5 t	320	1200	600	90	640
	10.0 t	390	1500	750	100	780
26 t	12.5 t	500	1500	750	120	1000
	17.0 t	500	1500	750	150	1000
	22.0 t	500	1500	750	180	1000

EDILMATIC EMZ LIFTING SYSTEM

ZER-C conical erection anchor for lifting and tilting

Additional reinforcement

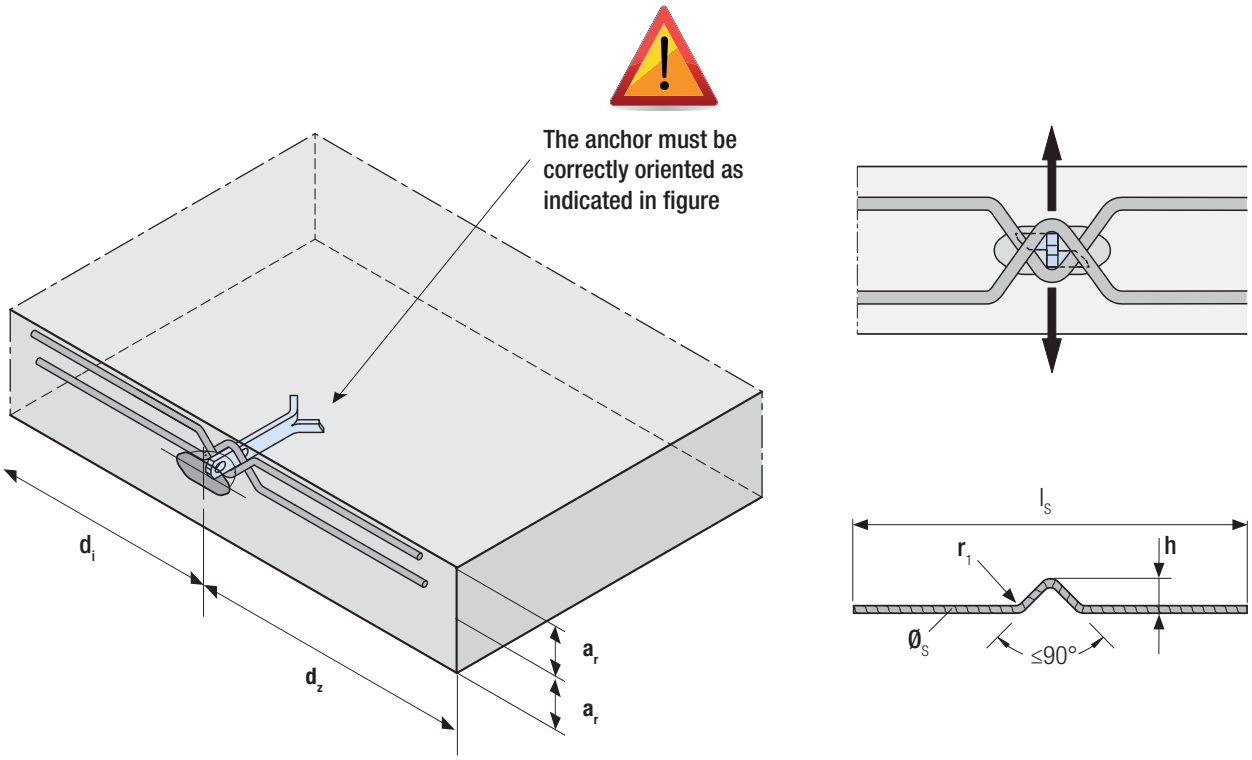


Load group	Anchor type	1 Wire mesh		2 Longitudinal stirrups			3 Longitudinal reinforcement	4 Stirrups for diagonal lifting		
		Ø (mm)	A_s (mm^2/m)	$n°_{min}$	$d_{S,B}$ (mm)	l_B (mm)	$d_{S,R}$ (mm)	ØP (mm)	d_{br} (mm)	l_s (mm)
2.5 t	1.4 t	6	188	2	6	500	2 x Ø8	47	6	900
	2.5 t	6	188	2	8	600	2 x Ø8	47	8	1200
5.0 t	4.0 t	6	188	2	10	700	2 x Ø10	53	10	1200
	5.0 t	6	188	2	10	800	2 x Ø10	53	12	1550
10 t	7.5 t	6	188	4	10	800	2 x Ø10	71	14	2000
	10.0 t	6	188	6	10	800	2 x Ø12	71	16	2300
26 t	12.5 t	8	335	6	10	800	2 x Ø14	116	20	2300
	17.0 t	8	335	6	12	1000	2 x Ø14	116	24	2600
	22.0 t	10	524	6	12	1200	2 x Ø16	116	28	3000

EDILMATIC EMZ LIFTING SYSTEM

ZER-C conical erection anchor for lifting and tilting

Prescriptions for tilting and lifting

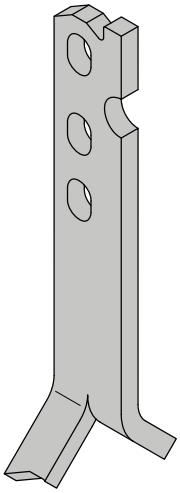


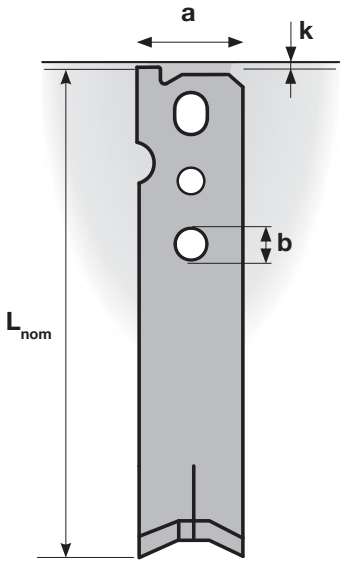
Load group	Anchor type	Design load (kN)	Positioning distances			Reinforcement for tilting		
			d_z (mm)	d_i (mm)	a_r (mm)	$Ø_s$ (mm)	r_1 (mm)	l_s (mm)
2.5 t	1.4 t	7.0	350	700	50	10	25	700
	2.5 t	12.5	400	800	60	12	25	800
5.0 t	4.0 t	20.0	475	950	75	14	32	950
	5.0 t	25.0	500	1000	80	16	32	1000
10 t	7.5 t	37.5	600	1200	90	20	40	1200
	10.0 t	50.0	750	1500	100	20	40	1500
26 t	12.5 t	62.5	750	1500	120	25	50	1800
	17.0 t	85.0	750	1500	150	25	50	1800
	22.0 t	110.0	750	1500	180	28	50	1800

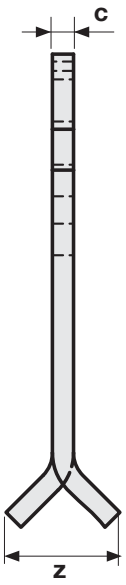
EDILMATIC EMZ LIFTING SYSTEM

ZER-MN unilateral erection anchor for lifting and tilting

Types and sizes





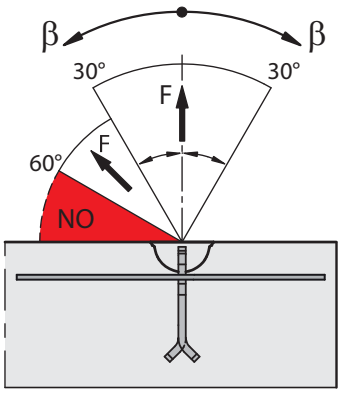


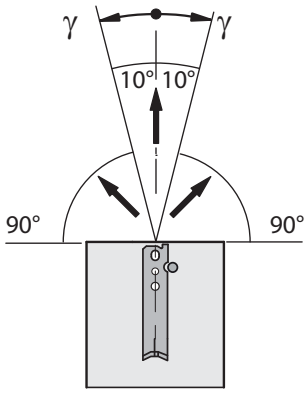
Load group	Anchor type	Code	Dimensions and sizes (mm)					
			a (mm)	b (mm)	c (mm)	z (mm)	L_{nom} (mm)	k (mm)
2.5 t	1.4 t	ZER-MN1.4G	45	15	6	60	200	10
	2.5 t	ZER-MN2.5G	45	15	12	70	230	10
5.0 t	4.0 t	ZER-MN4G	60	19	15	80	270	10
	5.0 t	ZER-MN5G	60	19	17.5	80	290	10
10 t	7.5 t	ZER-MN7.5G	100	29	15	110	320	15
	10.0 t	ZER-MN10G	100	29	20	110	390	15
26 t	12.5 t	ZER-MN12.5G	120	35	20	140	500	15
	17.0 t	ZER-MN17G	120	35	25	140	500	15
	22.0 t	ZER-MN22G	120	35	30	140	500	15

EDILMATIC EMZ LIFTING SYSTEM

ZER-MN unilateral erection anchor for lifting and tilting

Direction of loading and design loads





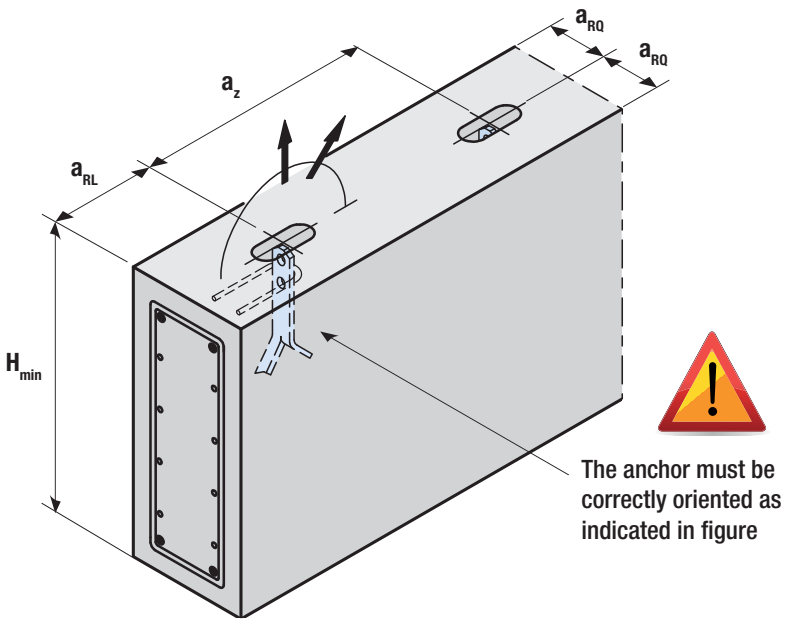
For tilting
[10°≤ γ ≤ 90°]
see page 22

Load group	Anchor type	F_{max} (kN) $\beta \leq 30°$ $\gamma \leq 10°$	F_{max} (kN) $30° < \beta < 60°$
2.5 t	1.4 t	14	11.2
	2.5 t	25	20
5.0 t	4.0 t	40	32
	5.0 t	50	40
10 t	7.5 t	75	60
	10.0 t	100	80
26 t	12.5 t	125	100
	17.0 t	170	136
	22.0 t	220	176

EDILMATIC EMZ LIFTING SYSTEM

ZER-MN unilateral erection anchor for lifting and tilting

Positioning prescriptions and edge distances

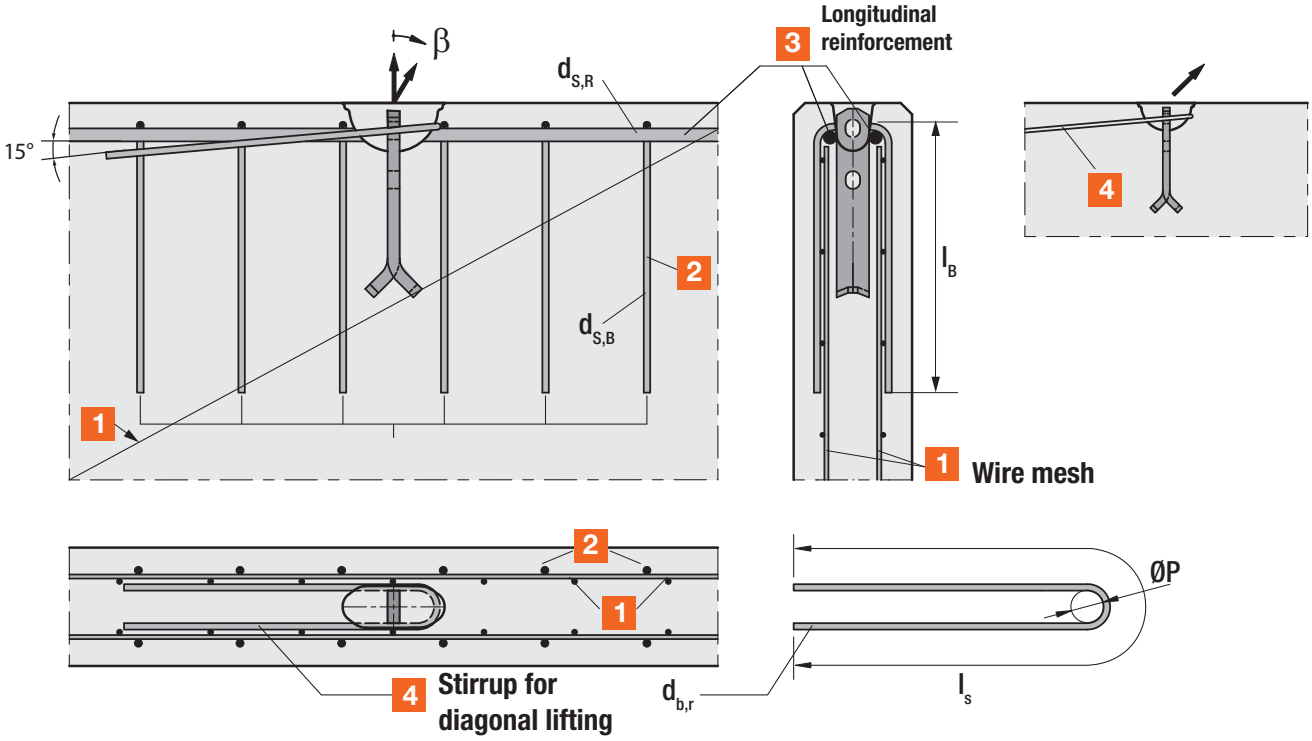


Load group	Anchor type	L_{nom} (mm)	a_z (mm)	a_{RL} (mm)	a_{RQ} (mm)	H_{min} (mm)
2.5 t	1.4 t	200	700	350	45	400
	2.5 t	230	800	400	60	460
5.0 t	4.0 t	270	950	475	70	540
	5.0 t	290	1000	500	70	580
10 t	7.5 t	320	1200	600	80	640
	10.0 t	390	1500	750	100	780
26 t	12.5 t	500	1500	750	120	1000
	17.0 t	500	1500	750	150	1000
	22.0 t	500	1500	750	180	1000

EDILMATIC EMZ LIFTING SYSTEM

ZER-MN unilateral erection anchor for lifting and tilting

Additional reinforcement

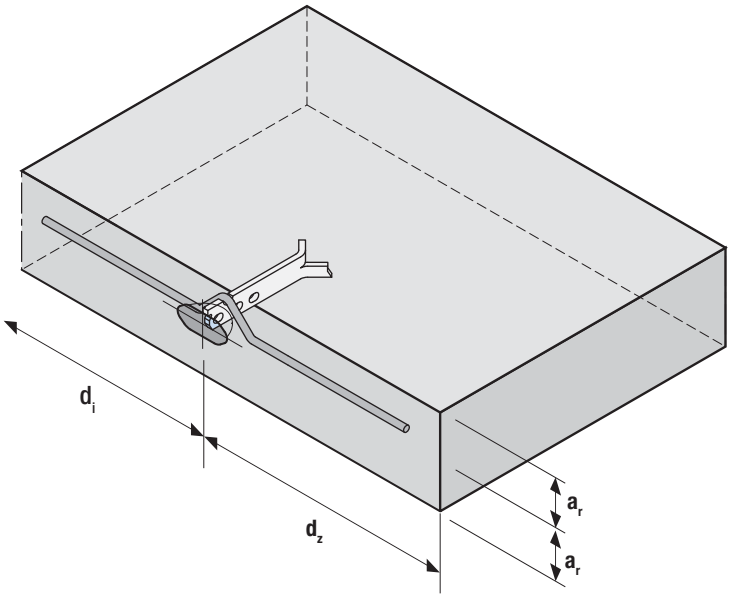


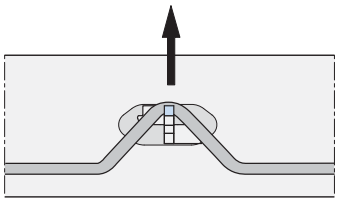
Load group	Anchor type	1 Wire mesh		2 Longitudinal stirrups			3 Longitudinal reinforcement	4 Stirrups for diagonal lifting		
		Ø (mm)	A_s (mm^2/m)	$n°_{min}$	$d_{S,B}$ (mm)	l_B (mm)	$d_{S,R}$ (mm)	ØP (mm)	d_{br} (mm)	l_s (mm)
2.5 t	1.4 t	6	188	2	6	500	2 x Ø8	47	6	900
	2.5 t	6	188	2	8	600	2 x Ø8	47	8	1200
5.0 t	4.0 t	6	188	2	10	700	2 x Ø10	53	10	1200
	5.0 t	6	188	2	10	800	2 x Ø10	53	12	1550
10 t	7.5 t	6	188	4	10	800	2 x Ø10	71	14	2000
	10.0 t	6	188	6	10	800	2 x Ø12	71	16	2300
26 t	12.5 t	8	335	6	10	800	2 x Ø14	116	20	2300
	17.0 t	8	335	6	12	1000	2 x Ø14	116	24	2600
	22.0 t	10	524	6	12	1200	2 x Ø16	116	28	3000

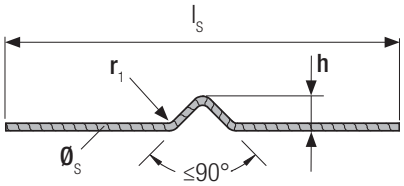
EDILMATIC EMZ LIFTING SYSTEM

ZER-MN unilateral erection anchor for lifting and tilting

Prescriptions for tilting and lifting





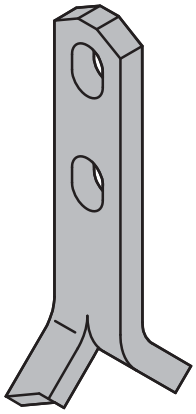


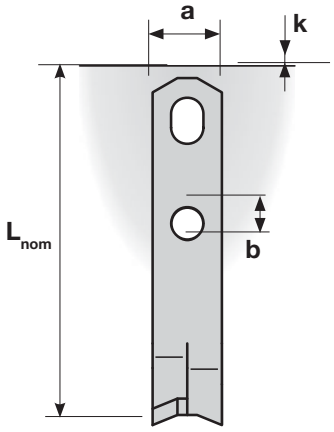
Load group	Anchor type	Design load (kN)	Positioning distances			Reinforcement for tilting		
			d_z mm	d_i mm	a_r mm	$Ø_s$ mm	r_1 mm	l_s mm
2.5 t	1.4 t	7.0	350	700	45	10	25	700
	2.5 t	12.5	400	800	60	12	25	800
5.0 t	4.0 t	20.0	475	950	70	14	32	950
	5.0 t	25.0	500	1000	70	16	32	1000
10 t	7.5 t	37.5	600	1200	80	20	40	1200
	10.0 t	50.0	750	1500	100	20	40	1500
26 t	12.5 t	62.5	750	1500	120	25	50	1800
	17.0 t	85.0	750	1500	150	25	50	1800
	22.0 t	110.0	750	1500	180	28	50	1800

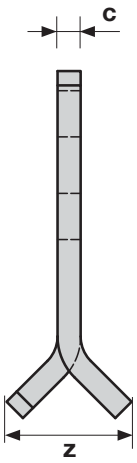
EDILMATIC EMZ LIFTING SYSTEM

ZE-TD-BS spread anchor for vertical lifting

Types and sizes





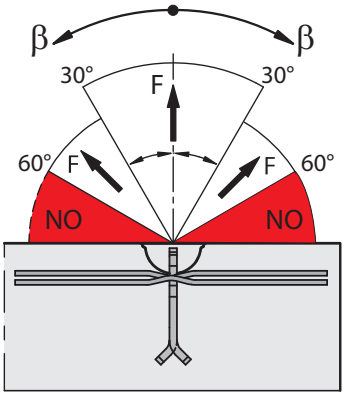


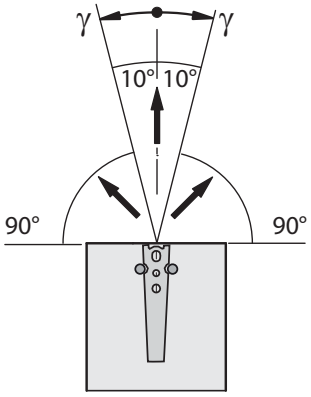
Load group	Anchor type	Dimensions and sizes (mm)					
		L_{nom} (mm)	a (mm)	b (mm)	c (mm)	z (mm)	k (mm)
2.5 t	0.7 t	110	30	14	5	60	10
	1.4 t	110	30	14	6	60	10
		160					
	2.0 t	130	30	14	8	60	10
		160					
		210					
	2.5 t	150	30	14	10	60	10
		200					
		250					
5.0 t	3.0 t	160	40	18	10	70	10
		200					
		280					
	4.0 t	180	40	18	12	70	10
		240					
		320					
	5.0 t	180	40	18	15	70	10
		240					
		400					
10 t	5.3 t	220	60	26	12	120	10
		260					
		340					
	7.5 t	260	60	26	15	120	15
		300					
		420					
	10.0 t	300	60	26	20	120	15
		370					
		520					
26 t	14.0 t	370	80	26	20	120	15
		260					
	22.0 t	500	90	35	28	120	15
		620					

EDILMATIC EMZ LIFTING SYSTEM

ZE-TD-BS spread anchor for vertical lifting

Direction of loading and design loads





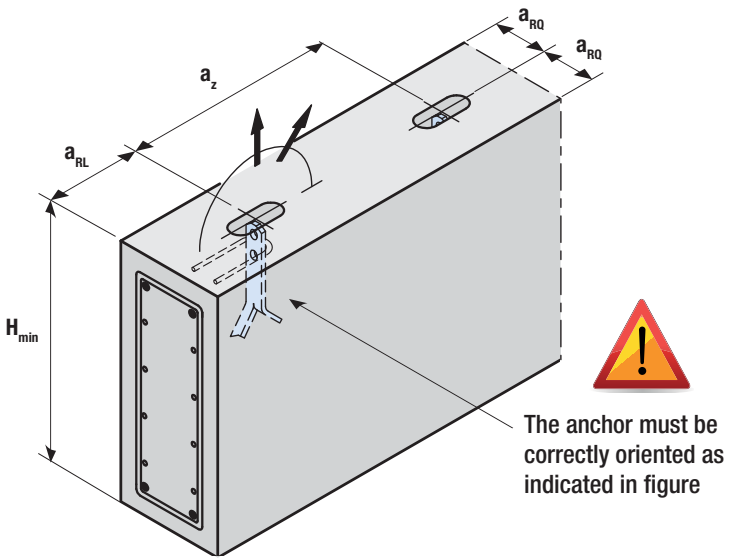
For tilting
[10°≤ γ ≤ 90°]
see page 12

Load group	Anchor type	F_{max} (kN) $\beta \leq 30°$ $\gamma \leq 10°$	F_{max} (kN) $30° < \beta < 60°$
2.5 t	0.7 t	7	5.6
	1.4 t	14	11.2
	2.0 t	20	16
	2.5 t	25	20
5.0 t	3.0 t	30	24
	4.0 t	40	32
	5.0 t	50	40
10 t	5.3 t	53	42
	7.5 t	75	60
	10.0 t	10	80
26 t	14.0 t	14	112
	22.0 t	22	176

EDILMATIC EMZ LIFTING SYSTEM

ZE-TD-BS spread anchor for vertical lifting

Positioning prescriptions and edge distances

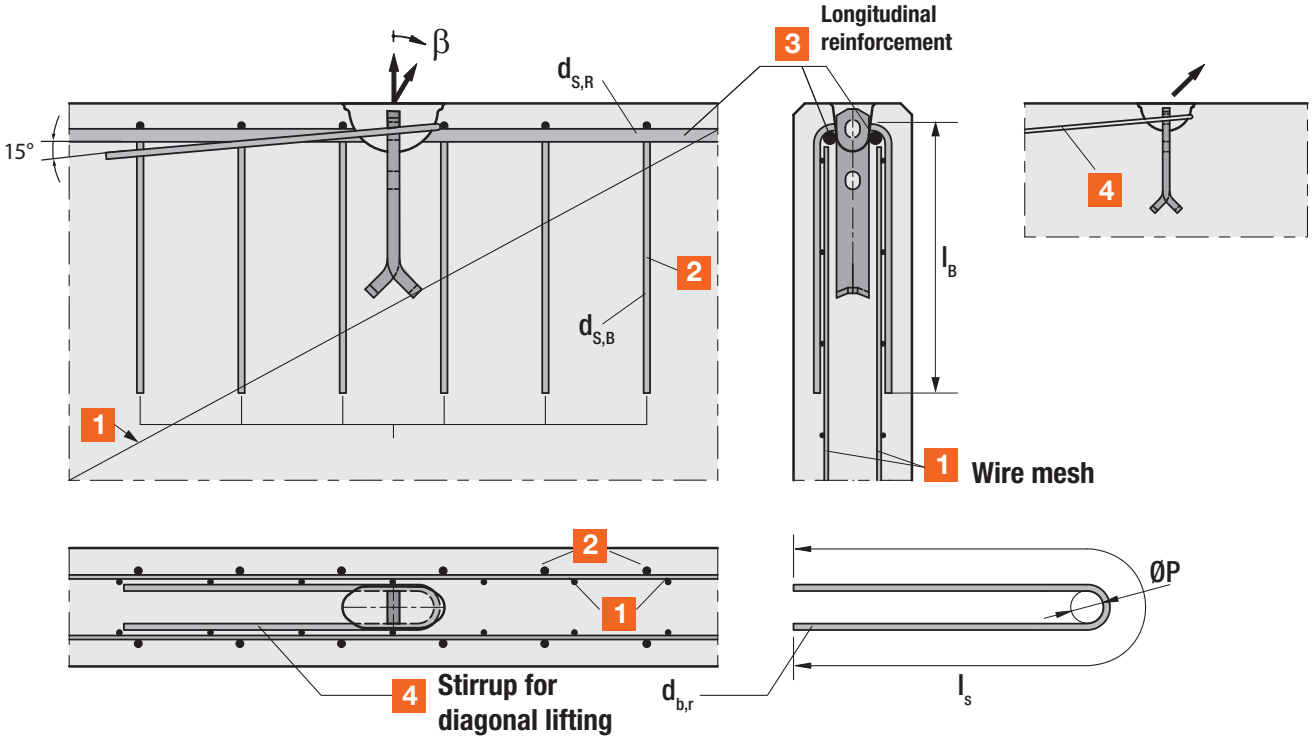


Load Group	Anchor type	L_{nom}	Concrete class			H_{min}	a_{RL}	A_z
			15 N/mm²	25 N/mm²	35 N/mm²			
			a_{RQ}					
2.5 t	0.7 t	110	35	35	35	200	280	280
	1.4 t	110	60	40	35	190	380	380
		160	35	35	35	290	530	530
	2.0 t	130	80	55	45	225	450	450
		160	60	40	35	285	570	570
		210	45	35	35	385	770	770
	2.5 t	150	90	65	50	260	520	520
		200	65	45	35	360	720	720
		250	50	35	35	460	920	920
5.0 t	3.0 t	160	105	75	60	275	550	550
		200	80	60	45	350	710	710
		280	55	40	40	510	1025	1025
	4.0 t	180	140	100	80	310	610	610
		240	100	70	55	425	850	850
		320	70	50	40	590	1175	1175
	5.0 t	180	190	135	110	300	600	600
		240	135	95	75	420	840	840
		400	75	55	45	740	1480	1480
10 t	5.3 t	220	190	135	110	400	750	750
		260	135	95	75	460	900	900
		340	95	75	60	600	1240	1240
	7.5 t	260	210	150	120	450	900	900
		300	180	125	100	530	1060	1060
		420	120	85	70	770	1540	1540
	10.0 t	300	270	190	150	515	1030	1030
		370	210	150	120	655	1310	1310
		520	140	100	80	955	1910	1910
26 t	14.0 t	370	350	250	200	615	1230	1230
		260	265	190	150	795	1590	1590
	22.0 t	500	450	320	260	850	1700	1700
		620	350	250	200	1090	2180	2180

EDILMATIC EMZ LIFTING SYSTEM

ZE-TD-BS spread anchor for vertical lifting

Additional reinforcement

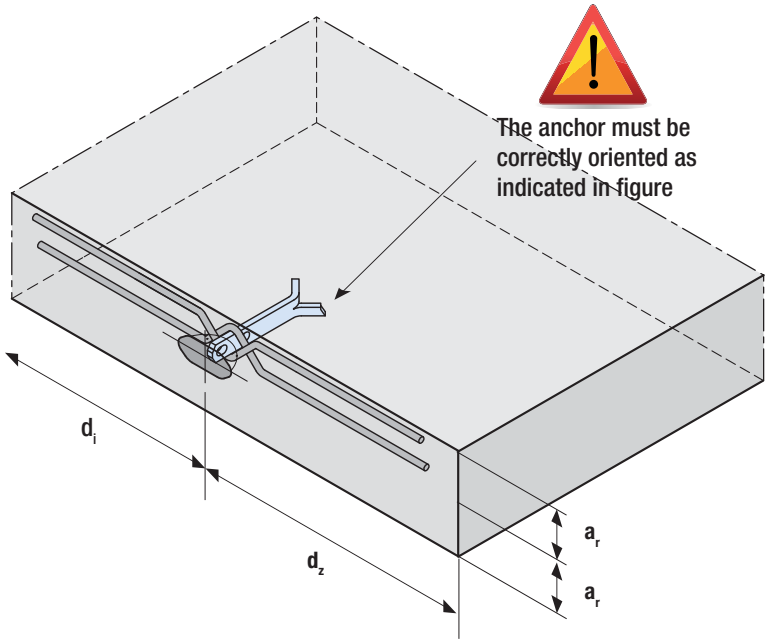


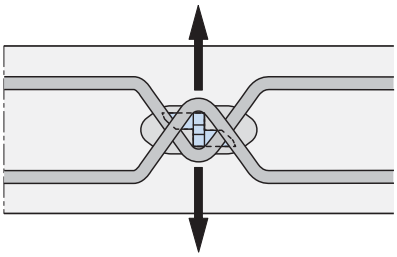
Load group	Anchor type	1 Wire mesh		2 Longitudinal stirrups			3 Longitudinal reinforcement	4 Stirrup for diagonal lifting		
		Ø (mm)	A_s (mm^2/m)	$n°_{min}$	$d_{S,B}$ (mm)	l_B (mm)	$d_{S,R}$ (mm)	ØP (mm)	d_{br} (mm)	l_s (mm)
2.5 t	0.7 t	6	188	4	6	300	2 x Ø8	47	6	600
	1.4 t	6	188	4	6	400	2 x Ø8	47	6	900
	2.0 t	6	188	4	6	500	2 x Ø8	47	6	950
	2.5 t	6	188	4	8	600	2 x Ø10	47	8	1200
5.0 t	3.0 t	6	188	4	8	700	2 x Ø10	47	8	1150
	4.0 t	6	188	4	8	800	2 x Ø10	53	10	1500
	5.0 t	6	188	4	10	800	2 x Ø12	53	12	1550
10 t	5.3 t	6	188	4	10	800	2 x Ø12	71	14	1700
	7.5 t	6	188	4	10	800	2 x Ø12	71	14	2000
	10.0 t	6	188	6	10	1000	2 x Ø14	71	16	2300
26 t	14.0 t	6	188	8	10	1000	2 x Ø16	116	20	2600
	22.0 t	6	188	8	12	1200	2 x Ø20	116	28	3300

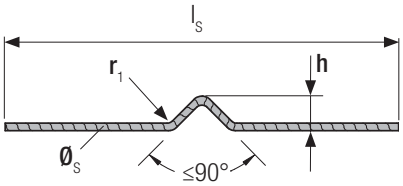
EDILMATIC EMZ LIFTING SYSTEM

ZE-TD-BS spread anchor for vertical lifting

Prescriptions for tilting and lifting





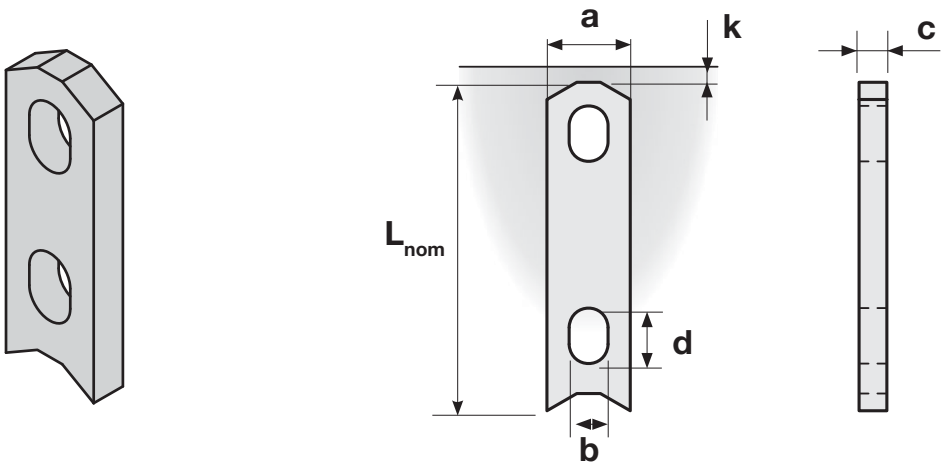


Load Group	Anchor type	L_{nom}	Positioning distances				Reinforcement for tilting		
			Design load (kN)	d_z (mm)	d_i (mm)	a_r (mm)	$Ø_s$ (mm)	r_1 (mm)	l_s (mm)
2.5 t	0.7 t	110	3.5	140	280	35	8	25	600
	1.4 t	110	7.0	190	380	35	10	25	700
		160		265	530	35			
	2.0 t	130	10.0	225	450	45	10	25	700
		160		285	570	35			
		210		385	770	35			
	2.5 t	150	12.5	260	520	50	12	25	800
		200		360	720	35			
		250		460	920	35			
5.0 t	3.0 t	160	15.0	275	550	60	14	32	900
		200		355	710	45			
		280		513	1025	40			
	4.0 t	180	20.0	305	610	80	14	32	950
		240		425	850	55			
		320		588	1175	40			
	5.0 t	180	25.0	300	600	110	16	32	1000
		240		420	840	75			
		400		740	1480	45			
10 t	5.3 t	220	21.5	375	750	110	16	32	1100
		260		450	900	75			
		340		620	1240	60			
	7.5 t	260	37.5	450	900	120	20	40	1200
		300		530	1060	100			
		420		770	1540	70			
	10.0 t	300	50.0	515	1030	150	20	40	1500
		370		655	1310	120			
		520		955	1910	80			
26 t	14.0 t	370	140.0	615	1230	200	25	50	1800
		260		795	1590	150			
	22.0 t	500	110.0	850	1700	260	28	50	1800
		620		1090	2180	200			

EDILMATIC EMZ LIFTING SYSTEM

ZE-TD-BS spread anchor for vertical lifting

Types and sizes

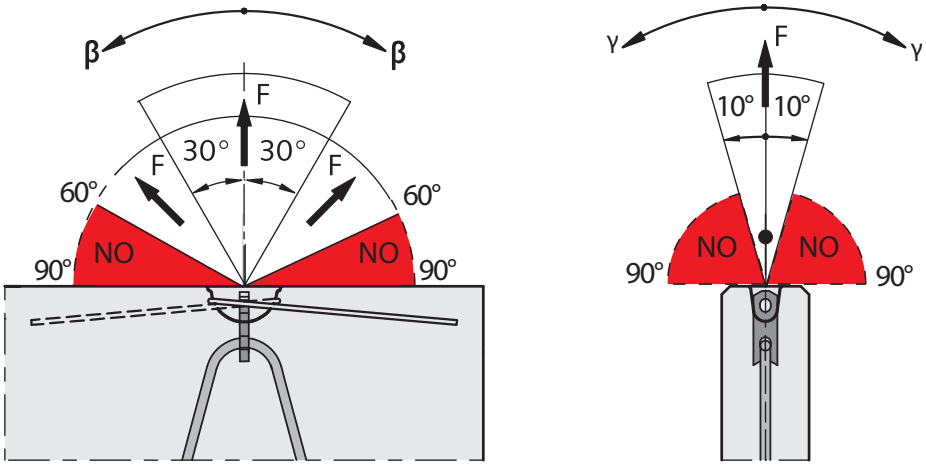


Load group	Anchor type	Dimensions and sizes (mm)				
		L_{nom} (mm)	a (mm)	b x d (mm)	c (mm)	k (mm)
2.5 t	0.7 t	90	30	14x20	5	10
	1.4 t	90	30	14x20	6	10
	2.0 t	90	30	14x20	8	10
	2.5 t	90	30	14x20	10	10
5.0 t	3.0 t	120	40	18x24	10	10
	4.0 t	120	40	18x24	12	10
	5.0 t	120	40	18x24	15	10
10 t	5.3 t	160	60	26x24	12	10
	7.5 t	160	60	26x32	16	15
	10.0 t	170	60	29x35	20	15
26 t	14.0 t	240	80	35x42	20	15
	22.0 t	300	90	35x42	25	15
	22.0 t	300	120	65x80	30	15

EDILMATIC EMZ LIFTING SYSTEM

ZE-TD spread anchor with two holes for vertical lifting

Direction of loading and design loads

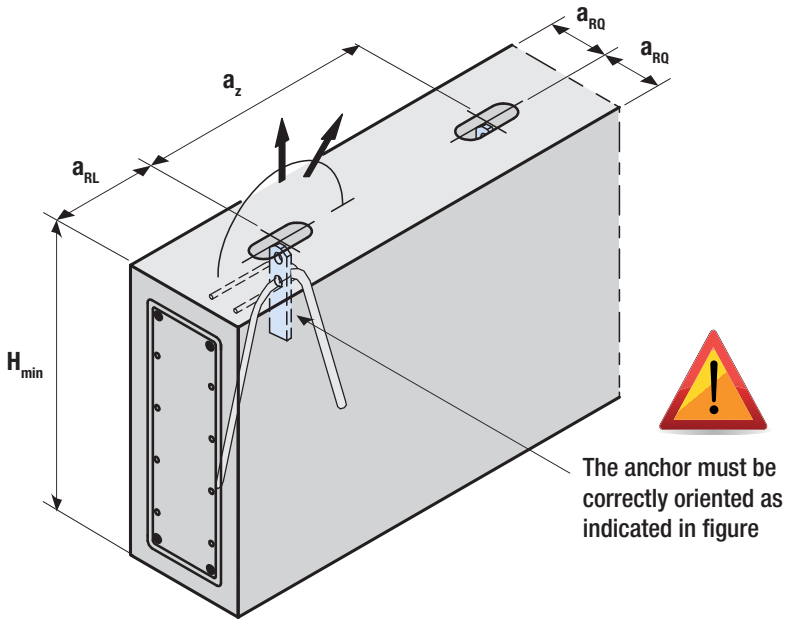


Load group	Anchor type	F_{max} (kN) $\beta \leq 30°$ $\gamma \leq 10°$	F_{max} (kN) $30° < \beta < 60°$
2.5 t	0.7 t	7	5.6
	1.4 t	14	11.2
	2.0 t	20	16
	2.5 t	25	20
5.0 t	3.0 t	30	24
	4.0 t	40	32
	5.0 t	50	40
10 t	5.3 t	53	42
	7.5 t	75	60
	10.0 t	100	80
26 t	14.0 t	140	112
	22.0 t	220	176
	22.0 t	260	206

EDILMATIC EMZ LIFTING SYSTEM

ZE-TD spread anchor with two holes for vertical lifting

Positioning prescriptions and edge distances

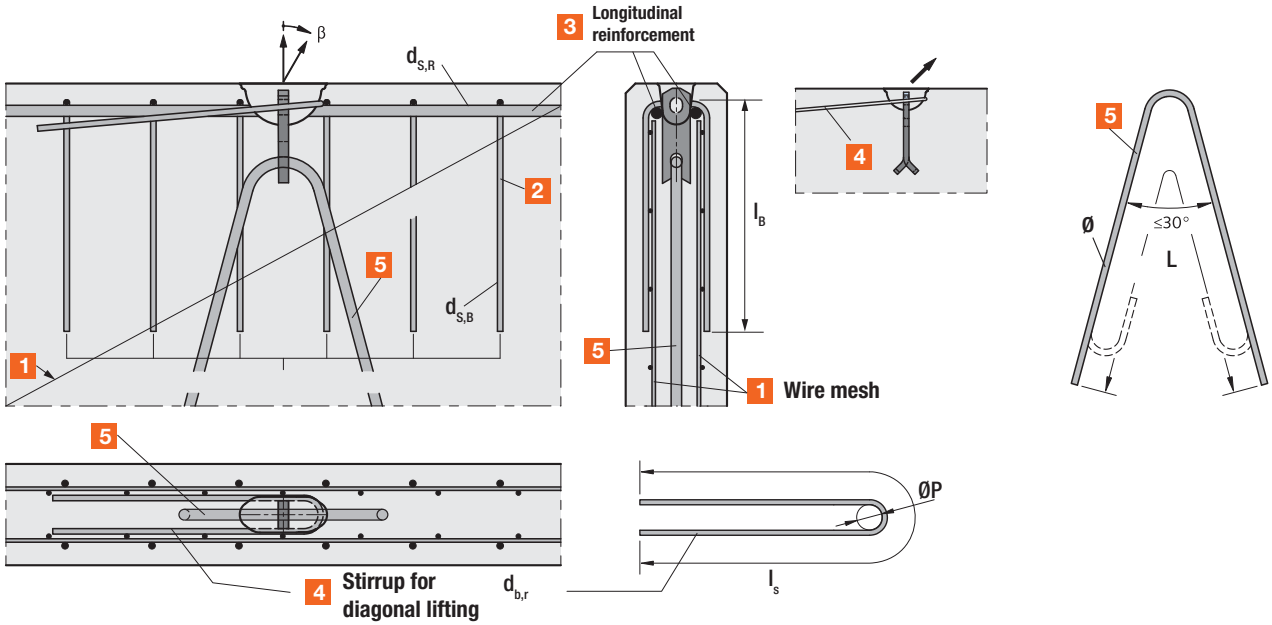


Load group	Anchor type	L_{nom} (mm)	a_z (mm)	a_{RL} (mm)	a_{RQ} (mm)	H_{min} (mm)
2.5 t	1.4 t	200	700	350	45	400
	2.5 t	230	800	400	60	460
5.0 t	4.0 t	270	950	475	70	540
	5.0 t	290	1000	500	70	580
10 t	7.5 t	320	1200	600	80	640
	10.0 t	390	1500	750	100	780
26 t	12.5 t	500	1500	750	120	1000
	17.0 t	500	1500	750	150	1000
	22.0 t	500	1500	750	180	1000

EDILMATIC EMZ LIFTING SYSTEM

ZE-TD spread anchor with two holes for vertical lifting

Additional reinforcement

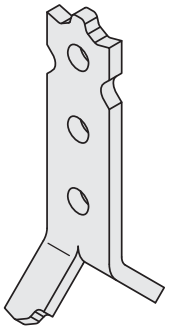


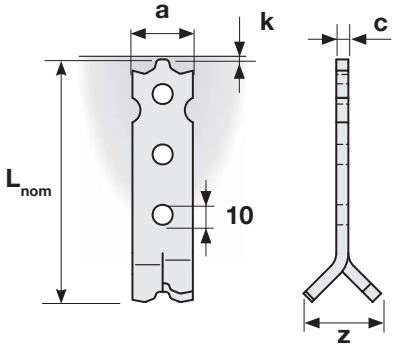
Load group	Anchor type	1 Wire mesh		2 Longitudinal stirrups			3 Longitudinal reinforcement	4 Stirrups for diadonal lifting			5 Additional stirrup	
		Ø (mm)	As (mm²/m)	n°$_{min}$	$d_{S,B}$ (mm)	l_B (mm)	$d_{S,R}$ (mm)	ØP (mm)	d_{br} (mm)	l_s (mm)	Ø (mm)	L (mm)
2.5 t	0.7 t	6	188	4	6	300	2 x Ø8	47	6	600	8	450
	1.4 t	6	188	4	6	400	2 x Ø8	47	6	900	10	650
	2.0 t	6	188	4	6	500	2 x Ø8	47	6	950	12	750
	2.5 t	6	188	4	8	600	2 x Ø10	47	8	1200	12	900
5.0 t	3.0 t	6	188	4	8	700	2 x Ø10	47	8	1150	14	950
	4.0 t	6	188	4	8	800	2 x Ø10	53	10	1500	16	1100
	5.0 t	6	188	4	10	800	2 x Ø12	53	12	1550	16	1300
10 t	5.3 t	6	188	4	10	800	2 x Ø12	71	14	1700	16	1400
	7.5 t	6	188	4	10	800	2 x Ø12	71	14	2000	20	1600
	10.0 t	6	188	6	10	1000	2 x Ø14	71	16	2300	25	1750
26 t	14.0 t	6	188	8	10	1000	2 x Ø16	116	20	2600	28	2150
	14.0 t	6	188	8	10	1000	2 x Ø16	116	20	2600	28	3100
	22.0 t	6	188	8	12	1200	2 x Ø20	116	28	3300	2x28	2650

EDILMATIC EMZ LIFTING SYSTEM

ZE-U universal anchor

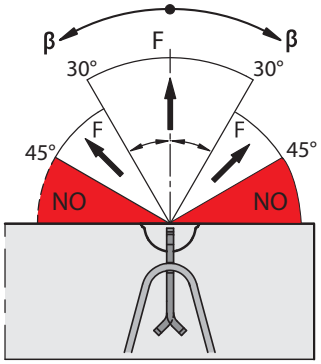
Types and sizes

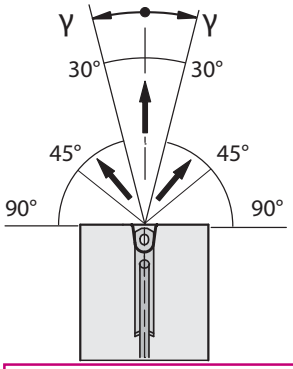




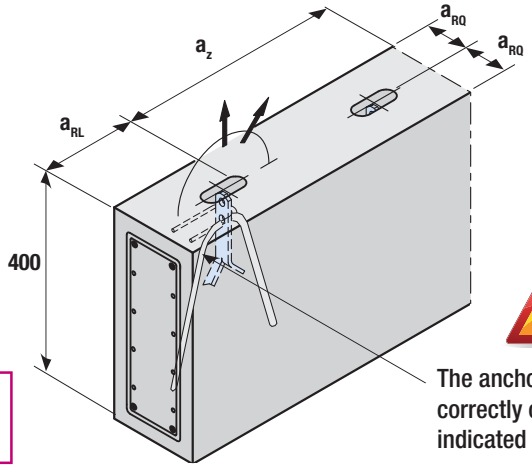
Load group	Anchor type	Dimensions and sizes (mm)					
		L_{nom}	a	b	c	z	k
1.25 t	1.25 t	100	30	10	6	40	10
	1.25 t	125	30	10	6	40	10

Design loads





For tilting
[45°≤ γ ≤ 90°]
see page 28



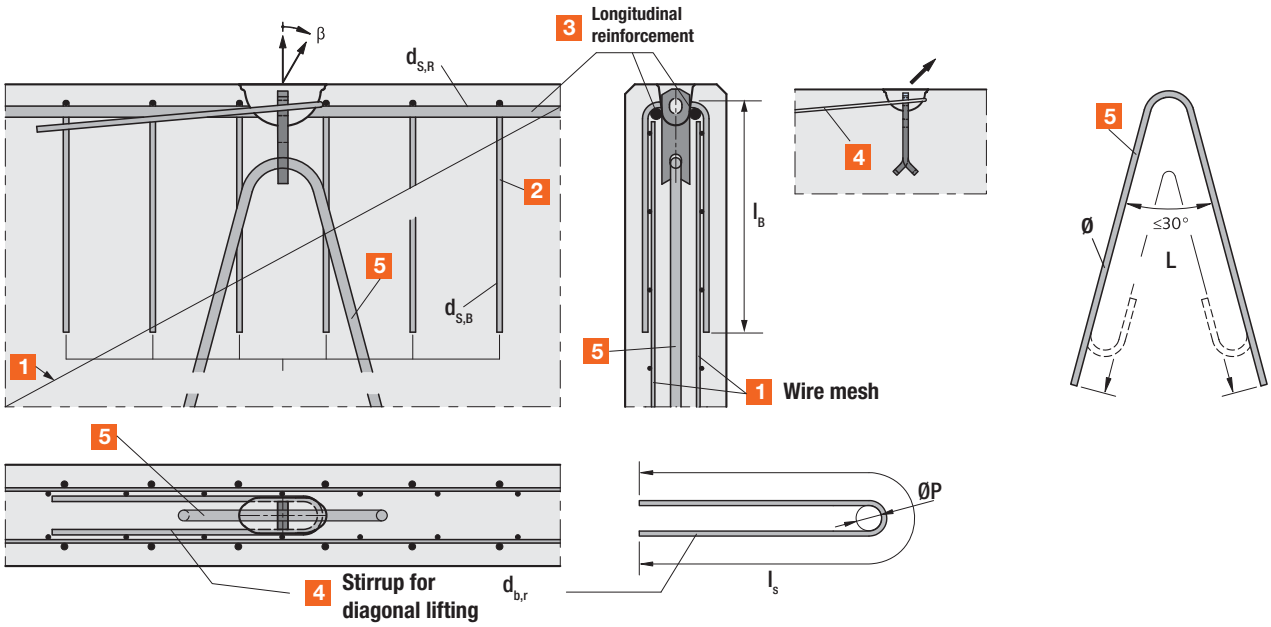
The anchor must be correctly oriented as indicated in figure

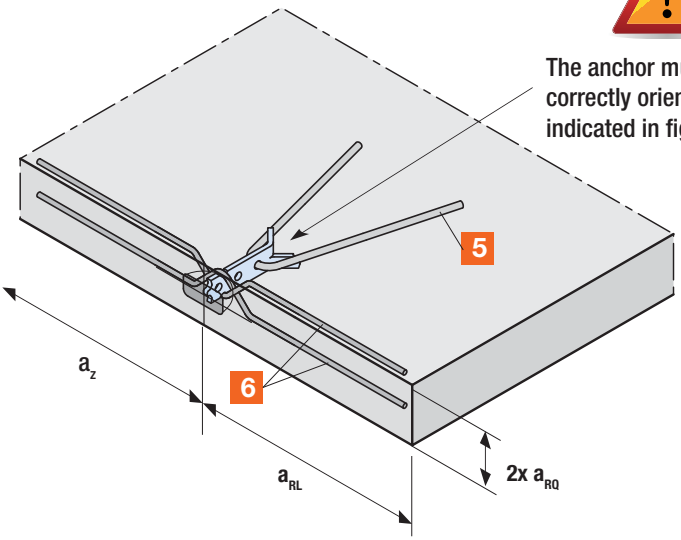
Load group	Anchor type	L_{nom} (mm)	a_{RQ} (mm)	a_{RL} (mm)	a_z (mm)	F_{max} (kN) β ≤ 30° γ ≤ 10°			F_{max} (kN) 30° ≤ β ≤ 45° 30° ≤ γ ≤ 45°		
						Concrete class $f_{ck,cube}$			Concrete class $f_{ck,cube}$		
						15 N/mm²	25 N/mm²	35 N/mm²	15 N/mm²	25 N/mm²	35 N/mm²
1.25 t	1.25 t	100	30	100	250	12.5	12.5	12.5	10.0	10.0	10.0
			40			12.5	12.5	12.5	10.0	10.0	10.0
			50			12.5	11.6	12.5	10.0	10.0	10.0
			60			10.1	12.5	12.5	10.0	10.0	10.0
			70			11.3	12.5	12.5	10.0	10.0	10.0
1.25 t	1.25 t	125	30	100	250	12.5	12.5	12.5	10.0	10.0	10.0
			40			12.5	12.5	12.5	10.0	10.0	10.0
			50			11.1	12.5	12.5	10.0	10.0	10.0
			60			12.5	12.5	12.5	10.0	10.0	10.0
			70			12.5	12.5	12.5	10.0	10.0	10.0

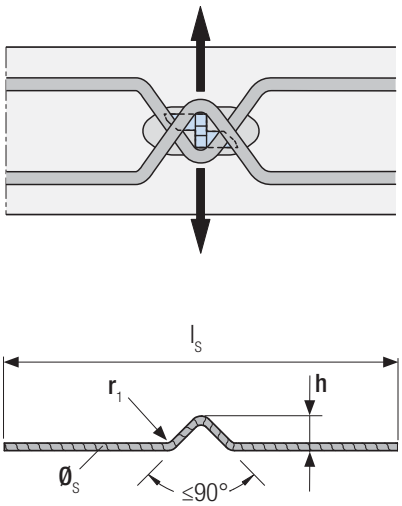
EDILMATIC EMZ LIFTING SYSTEM

ZE-U universal anchor

Prescriptions for tilting and lifting





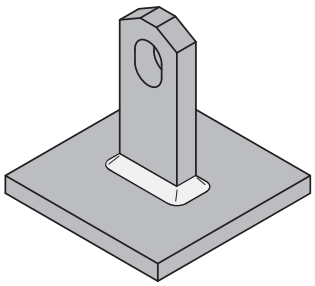


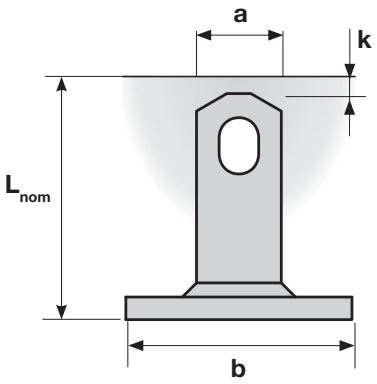
Load group	Anchor type	1 Wire mesh		2 Longitudinal stirrups			3 Longitudinal reinforcement	4 Stirrup for diagonal lifting			5 Additional stirrup		6 Stirrups for tilting		
		Ø mm	A_s mm²/m	$n°_{min}$	$d_{S,B}$ mm	l_B mm	$d_{S,R}$ mm	ØP mm	d_{br} mm	l_s mm	Ø mm	L mm	$Ø_s$ mm	r_1 mm	l_s mm
1.25 t	1.25 t	6	188	4	6	400	2 x Ø8	47	6	900	10	650	8	25	700

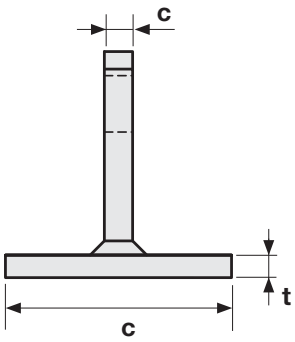
EDILMATIC EMZ LIFTING SYSTEM

ZE-R lowered anchor

Types and sizes





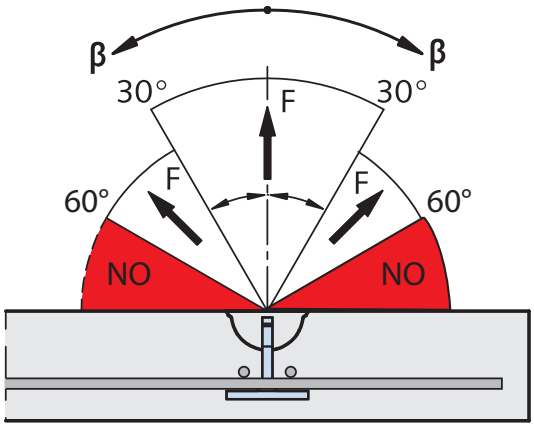


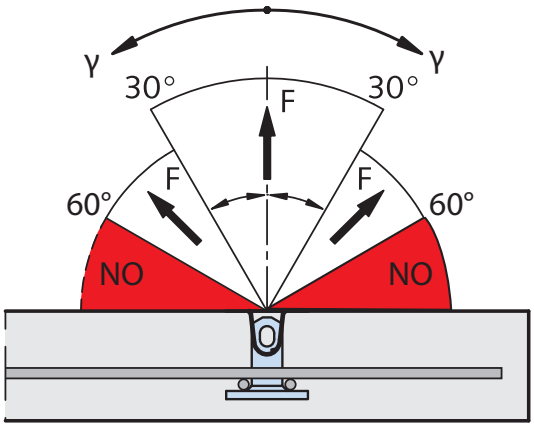
Load group	Anchor type	Code	Dimensions and sizes (mm)						Weight (kg)
			L_{nom}	a	b	c	t	k	
2.5 t	1.4 t	ZER1.4	50	30	80	80	8	10	0.45
	2.5 t	ZER2.5	80	30	100	100	8	10	0.56
5.0 t	5.0 t	ZER5	120	40	100	100	10	10	1.22
10.0t	10.0 t	ZER10	160	60	100	100	12	15	3.11

EDILMATIC EMZ LIFTING SYSTEM

ZE-R lowered anchor

Direction of loading and design loads



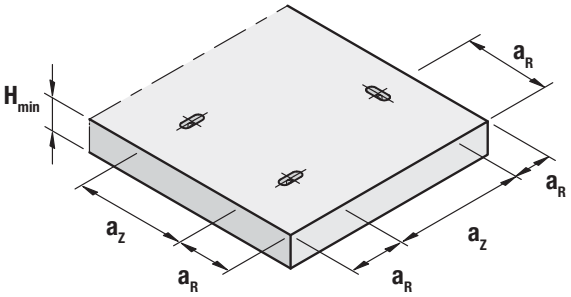


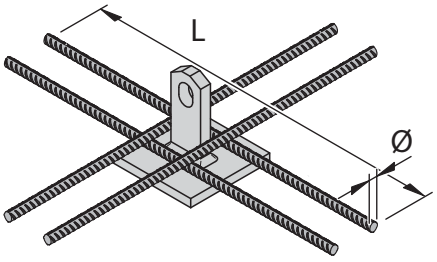
Load group	Anchor type	F_{max} (kN) $\beta \leq 30°$ $\gamma \leq 30°$	F_{max} (kN) $30° \leq \beta \leq 60°$ $30° \leq \gamma \leq 60°$
2.5 t	1.4 t	22.4	17.9
	2.5 t	33.9	27.1
5.0 t	5.0 t	59.0	47.2
10.0 t	10.0 t	93.9	75.1

EDILMATIC EMZ LIFTING SYSTEM

ZE-R lowered anchor

Additional reinforcement



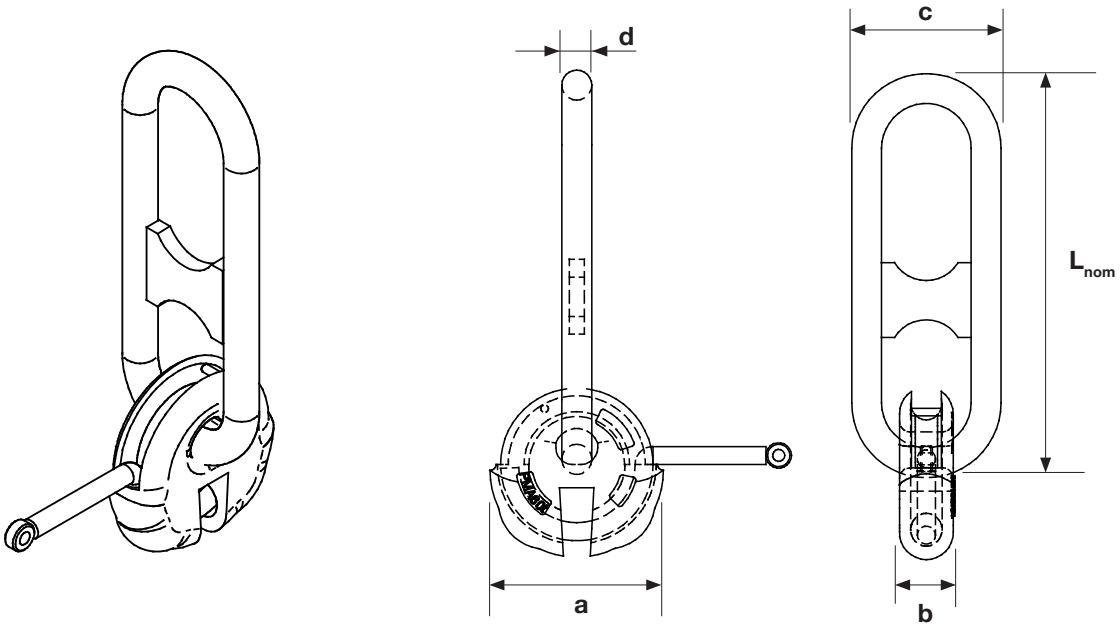


Load group	Anchor type	H_{min} (mm)	a_R (mm)	a_Z (mm)	Ø (mm)	L (mm)
2.5 t	1.4 t	85	115	230	8	200
	2.5 t	110	165	330	10	300
5.0 t	5.0 t	150	240	480	12	450
10.0 t	10.0 t	195	330	660	16	600

EDILMATIC EMZ LIFTING SYSTEM

MSZE standard lifting handle with hot formed ring

Types, geometry and sizes

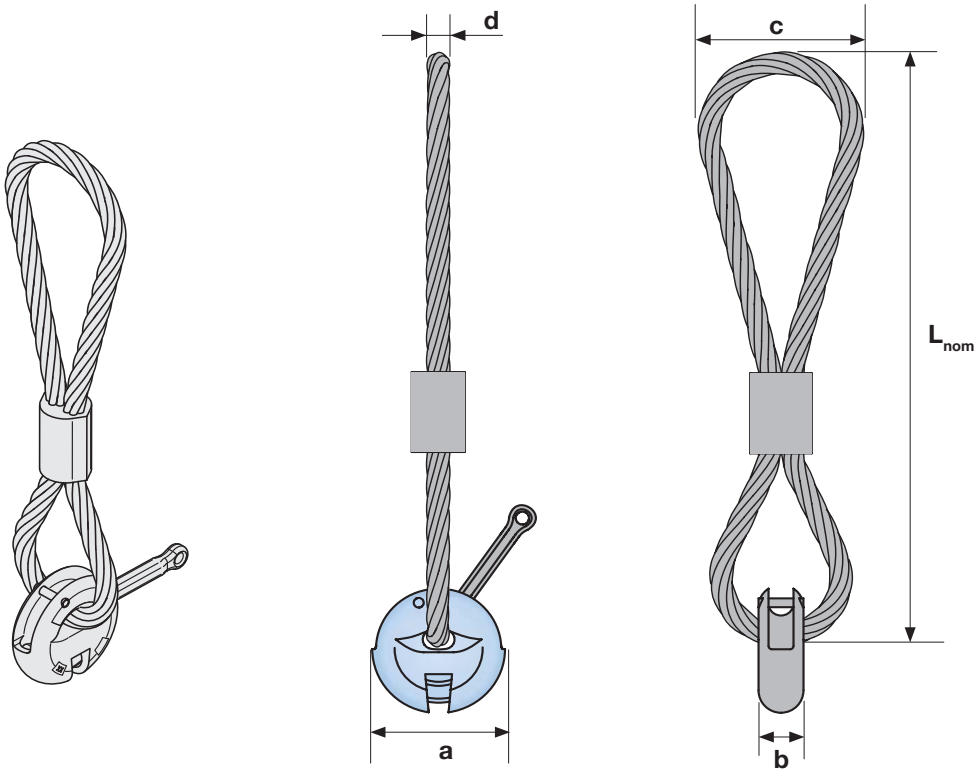


Load group	a (mm)	b (mm)	c (mm)	d (mm)	L_{nom} (mm)
2.5 t	80	27	58	15	225
5.0 t	105	36	65	20	275
10.0 t	150	50	90	25	350
26.0 t	2016	72	120	45	500

EDILMATIC EMZ LIFTING SYSTEM

MSZE-C special lifting handle with steel wire

Types, geometry and sizes



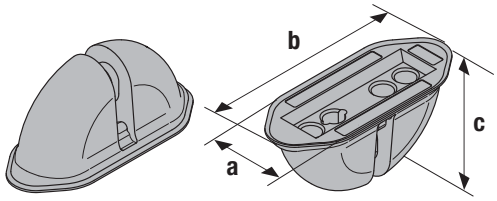
Load group	a (mm)	b (mm)	c (mm)	d (mm)	L_{nom} (mm)
2.5 t	80	27	15	12	225
5.0 t	105	36	20	16	275
10.0 t	150	50	25	25	350
26.0 t	2016	72	30	45	500

EDILMATIC EMZ LIFTING SYSTEM

EMZ recess former

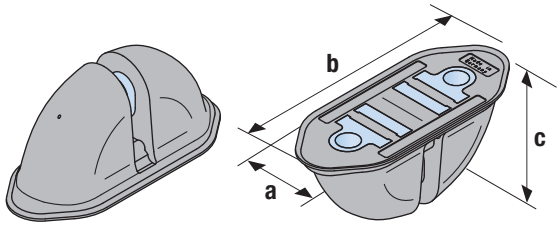
Rubber recess former - Types and sizes

Load group	Dimensions and sizes (mm)		
	a	b	c
2.5 t	ON DEMAND		
5.0 t	52	130	58
10.0 t	78	180	90
26.0 t	ON DEMAND		



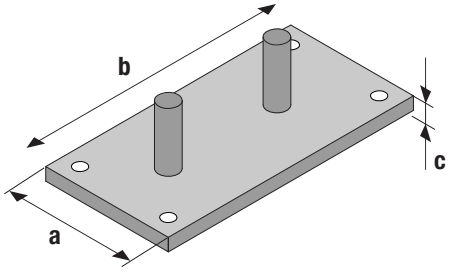
Rubber recess former with magnets - Types and sizes

Load group	Dimensions and sizes (mm)		
	a	b	c
2.5 t	ON DEMAND		
5.0 t	52	130	58
10.0 t	78	180	90
26.0 t	ON DEMAND		



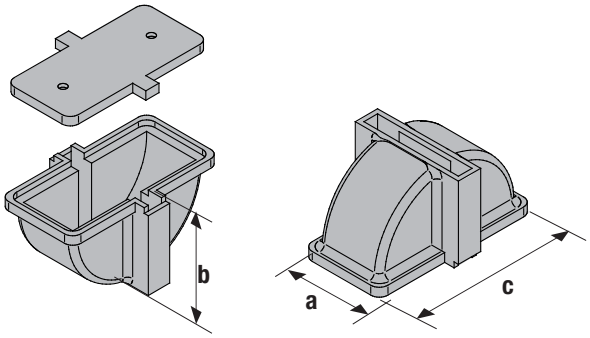
Steel plates for rubber recess former - Geometry

Load group	Dimensions and sizes (mm)		
	a	b	c
2.5 t	ON DEMAND		
5.0 t	33	88	6
10.0 t	48	130	8
26.0 t	ON DEMAND		



Plastic recess former - Types and sizes

Load group	Dimensions and sizes (mm)		
	a	b	c
2.5 t	ON DEMAND		
5.0 t			
10.0 t			
26.0 t			



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