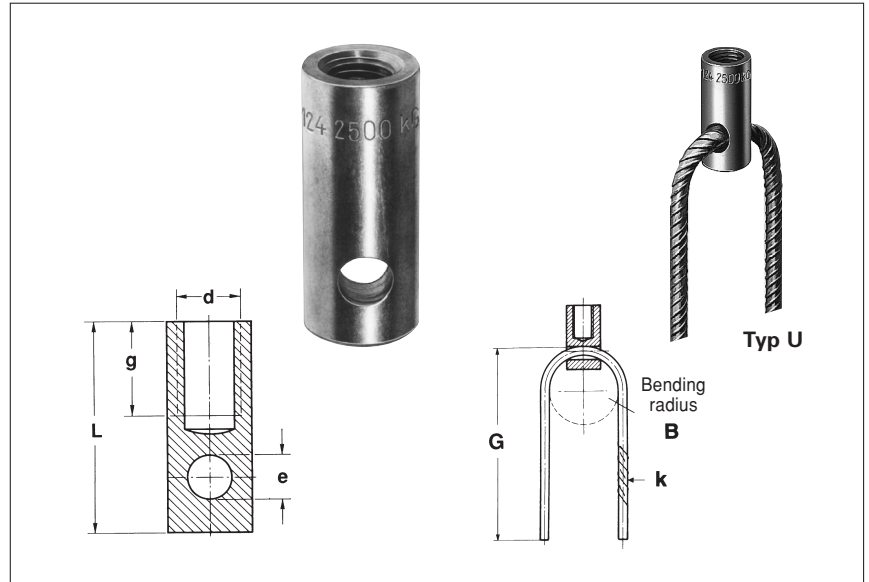


Lifting Sockets

solid type
with crosshole



List
33



Load stages		Mild steel (bk)	Electro plated (zn)	Stainless steel (A4)	Approx. weight per 100 pieces
[kg]	d x L [mm]	Reference No.	Reference No.	Reference No.	[kg]
400	M 10 x 42	k3310bk	k3310zn	k3310va	4,60
500	M 12 x 48	k3312bk	k3312zn	k3312va	6,00
1200	M 16 x 56	k3316bk	k3316zn	k3316va	13,42
2000	M 20 x 68	k3320bk	k3320zn	k3320va	25,00
2500	M 24 x 77	k3324bk	k3324zn	k3324va	34,50
3000	M 27 x 90	k3327bk	k3327zn	k3327va	57,00
4000	M 30 x 96	k3330bk	k3330zn	k3330va	66,30

Load stages are the same for all product groups.

Load capacity is the maximum load that complies with the "Safety Standards for Transport Anchors and Transport Systems in Precast Concrete Elements". All safety factors for the breakage of rope (4), steel and concrete (3) have been included in the calculation.

Dimensions of the sockets with inside thread [mm]

d x L	Steel		Stainless steel	
	g	e	g	e
M 10 x 42	22	9	22	9
M 12 x 48	24	11	24	11
M 16 x 56	26	14	26	14
M 20 x 68	28	16	28	16
M 24 x 77	30	18	30	18
M 27 x 90	35	22	35	22
M 30 x 96	35	22	35	22

Dimensions of the U-re-bars [mm]

k	G	B
6	250	60
8	300	60
10	350	70
12	400	80
14	450	100
16	500	115
16	600	135

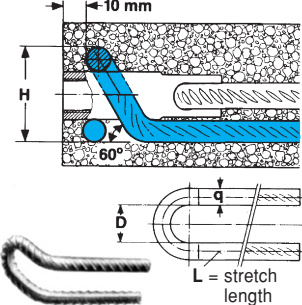
Additional reinforcement must be applied by the user as shown (see table)!

On your request our fixing sockets come with 4 to 6 µm electro plating plus yellow cromate coating.

Special designs on request

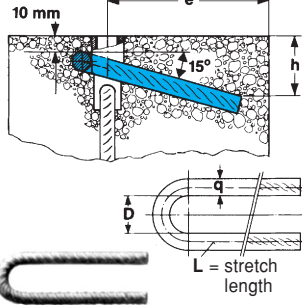


Additional reinforcements for transverse and inclined load



transverse reinforcement with 60° angle

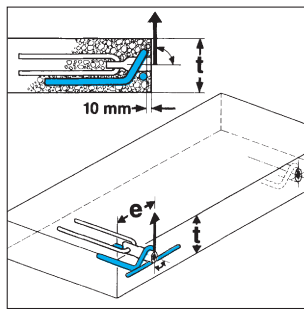
Thread	D [mm]	q [mm]	H [mm]	L [mm]
M+Rd 12	16,5	8	30	260
M+Rd 14	18,0	8	31	330
M+Rd 16	22,2	8	43	350
Rd 18	22,3	10	56	380
M+Rd 20	27,7	10	57	450
M+Rd 24	31,0	10	59	500
M+Rd 30	41,0	14	82	550
M+Rd 36	47,0	14	84	600
M+Rd 42	54,0	20	100	670
M+Rd 52	67,0	20	125	700



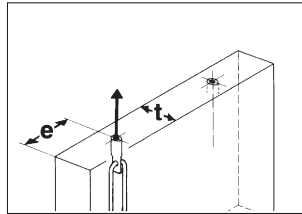
inclined load, straight reinforcement

Thread	D [mm]	q [mm]	h [mm]	L [mm]
M+Rd 12	16,5	8	45	260
M+Rd 14	18,0	8	55	330
M+Rd 16	22,2	8	60	350
Rd 18	24,0	10	65	380
M+Rd 20	27,7	10	70	450
M+Rd 24	31,0	10	80	500
M+Rd 30	41,0	14	85	550
M+Rd 36	47,0	14	90	600
M+Rd 42	54,0	20	95	670
M+Rd 52	67,0	20	100	700

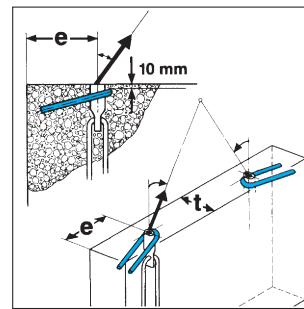
Minimum reinforcement: 2 Q 131 weld mesh (150 x 5 mm). Insure a minimum concrete covering to DIN 1045-1. Additional reinforcement for inclined and transverse loads.



transverse (in transverse direction to the slab)



axial (in the direction of the slab)



inclined (in the direction of the slab)

Load stages	Dimensions d x l [mm]	Minimum slab thickness t [cm]	Minimum distance to edge e [cm]	Load capacity at $\geq 15 \text{ N/mm}^2$ (C12/15)				
				Axial load with all lifting loops List 40.0, 40.8, 41, 42 [kg]	Transverse load with U-re-bar & lifting loops List 40.0, 40.8 or 42 [kg]	inclined load up to 45°		
						w/o U-re-bar for inclined load with lifting loops List 40.0, 40.8 or 42 [kg]	with lifting loop List 41 [kg]	with U-re-bar for inclined load & lifting loop List 41 [kg]
400	M 10 x 42	8	14	500	200	400	450	500
500	M 12 x 48	8	14	550	250	450	500	550
1200	M 16 x 56	10	18	1200	400	750	1000	1100
2000	M 20 x 68	12	25	2000	850	1000	1700	1700
2500	M 24 x 77	12	30	2500	850	1100	2000	2300
3000	M 27 x 90	16	35	3500	1200	2300	2700	3000
4000	M 30 x 96	16	35	4000	1300	2600	2800	3900

Load stages	Dimensions d x l [mm]	Minimum slab thickness t [cm]	Minimum distance to edge e [cm]	Load capacity at $\geq 25 \text{ N/mm}^2$ (C20/25)				
				Axial load with all lifting loops List 40.0, 40.8, 41, 42 [kg]	Transverse load with U-re-bar & lifting loops List 40.0, 40.8 or 42 [kg]	inclined load up to 45°		
						w/o U-re-bar for inclined load with lifting loops List 40.0, 40.8 or 42 [kg]	with lifting loop List 41 [kg]	with U-re-bar for inclined load & lifting loop List 41 [kg]
400	M 10 x 42	8	14	650	300	550	600	650
500	M 12 x 48	8	14	700	350	600	650	700
1200	M 16 x 56	10	18	1400	500	1000	1300	1400
2000	M 20 x 68	12	25	2200	1100	1300	2200	2200
2500	M 24 x 77	12	30	3000	1100	1400	2600	3000
3000	M 27 x 90	16	35	4500	1600	3000	3500	3950
4000	M 30 x 96	16	35	5000	1700	3400	3600	5000