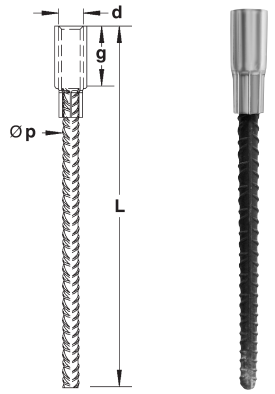
Transport Anchors

with straight bar

List **3 I** straight

Load-stages [kg]	Metric thread d x L [mm]	Reference No.	Round thread (Rd) d x L [mm]	Reference No.	Approx. weight per 100 pieces [kg]
500	M 12 x 200	**k3112gm**	Rd 12 x 200	**k3112gr**	10.80
800	M 14 x 230	**k3114gm**	Rd 14 x 230	**k3114gr**	20.00
1200	M 16 x 270	**k3116gm**	Rd 16 x 270	**k3116gr**	30.66
1600			Rd 18 x 300	**k3118gr**	46.00
2000	M 20 x 350	**k3120gm**	Rd 20 x 350	**k3120gr**	56.00
2500	M 24 x 400	**k3124gm**	Rd 24 x 400	**k3124gr**	85.50
4000	M 30 x 500	**k3130gm**	Rd 30 x 500	**k3130gr**	170.70
6300	M 36 x 650	**k3136gm**	Rd 36 x 650	**k3136gr**	372.00
8000	M 42 x 850	**k3142gm**	Rd 42 x 850	**k3142gr**	509.00
12500	M 52 x 920	**k3152gm**	Rd 52 x 920	**k3152gr**	760.00



The load tables have been compiled on the base of two systems of cube compressive strength: 15 N/mm² and 25 N/mm².

All loads were established by the state material research & testing laboratories by way of appropriate tests.
Safety is guaranteed, as required by "Safety Standards for Transport Anchors and Transport Systems in Precast Concrete Elements" issued by the trade union association.

Bolts and plastic nailing plates as per list 51 are used to fix the anchors to the formwork.

The parts with a thread are electro plated to DIN 50 961 with a 4–6 µm coating

Wavytail Lifting Sockets are also available with a stainless steel socket on request.

Approximate dimensions [mm]		
d	p	g
M + Rd 12	8	25
M + Rd 14	10	25
M + Rd 16	12	27
Rd 18	14	34
M + Rd 20	14	35
M + Rd 24	16	43
M + Rd 30	20	56
M + Rd 36	25	69
M + Rd 42	28	80
M + Rd 52	32	97

This product group is also available as a "GS"-tested anchor.

Feel free to request the "GS"-approval information.

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.

Special designs on request

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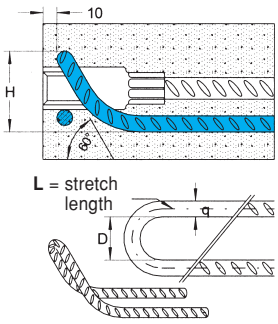
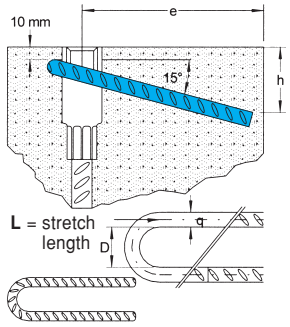
Additional reinforcements for transverse and inclined load



transverse reinforcement with 60° angle

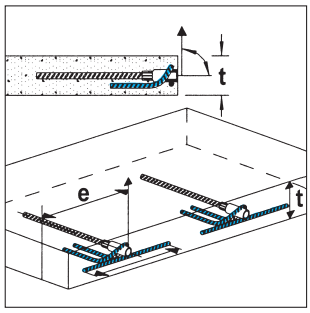
Thread	D [mm]	q [mm]	H [mm]	L [mm]
M+Rd 12	16.5	8	30	260
M+Rd 14	18.0	8	31	330
M+Rd 16	22.2	8	43	350
Rd 18	22.3	10	56	380
M+Rd 20	27.7	10	57	450
M+Rd 24	31.0	10	59	500
M+Rd 30	41.0	14	82	550
M+Rd 36	47.0	14	84	600
M+Rd 42	54.0	20	100	670
M+Rd 52	67.0	20	125	700



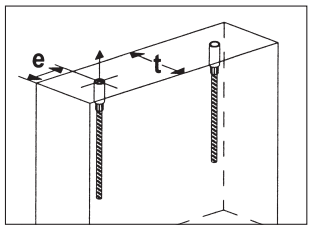
inclined load, straight reinforcement

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

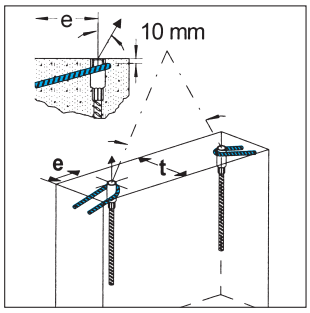
<u>Minimum reinforcement:</u> 2 Q 131 weld mash (150 x 5 mm). Insure a minimum concrete covering to DIN 1045-1. Additional reinforcement for inclined and transverse loads.



transverse (in transverse direction to the slab)



axial
(in the direction of the slab)



inclined
(in the direction of the slab)

Load stages	Dimensions		Minimum slab thickness	Minimum distance to edge	Load capacity at ≥ 15 N/mm² (C12/15)				
					Axial load with all lifting loops List 40.0, 40.8, 41, 42	Transverse load with U-re-bar & lifting loops List 40.0, 40.8 or 42	inclinded load up to 45°		
							w/o U-re-bar for inclined load		with U-re-bar for inclined load & lifting loop List 41
							with lifting loops List 40.0, 40.8 or 42	with lifting loop List 41	
[kg]	d x L [mm]		t [cm]	e [cm]	[kg]	[kg]	[kg]	[kg]	[kg]
500	M/Rd 12 x 200		6	16	650	300	400	400	700
800	M/Rd 14 x 230		6	18	850	300	450	450	800
1200	M/Rd 16 x 270		7	20	1200	300	500	500	1000
1600	Rd 18 x 300		10	20	2400	800	600	850	1150
2000	M/Rd 20 x 350		10	25	1900	800	750	850	1300
2500	M/Rd 24 x 400		10	30	3300	850	800	1300	1850
4000	M/Rd 30 x 500		14	35	4400	1900	2150	2150	3650
6300	M/Rd 36 x 650		14	45	6900	1900	3100*	–	4000*
8000	M/Rd 42 x 850		20	50	9100	2000	4650*	–	5600*
12500	M/Rd 52 x 920		20	60	12500	3500	5500*	–	7350*

Load stages	Dimensions		Minimum slab thickness	Minimum distance to edge	Load capacity at ≥ 25 N/mm² (C20/25)				
					Axial load with all lifting loops List 40.0, 40.8, 41, 42	Transverse load with U-re-bar & lifting loops List 40.0, 40.8 or 42	inclinded load up to 45°		
							w/o U-re-bar for inclined load		with U-re-bar for inclined load & lifting loop List 41
							with lifting loops List 40.0, 40.8 or 42	with lifting loop List 41	
[kg]	d x L [mm]		t [cm]	e [cm]	[kg]	[kg]	[kg]	[kg]	[kg]
500	M/Rd 12 x 200		6	16	800	400	500	500	900
800	M/Rd 14 x 230		6	18	1100	400	600	600	1000
1200	M/Rd 16 x 270		7	20	1500	400	650	650	1200
1600	Rd 18 x 300		10	20	2400	1100	800	1100	1500
2000	M/Rd 20 x 350		10	25	2900	1100	950	1100	1700
2500	M/Rd 24 x 400		10	30	4100	1100	1000	1700	2400
4000	M/Rd 30 x 500		14	35	5700	2500	2500	2800	4700
6300	M/Rd 36 x 650		14	45	8900	2500	3200*	–	5100*
8000	M/Rd 42 x 850		20	50	11700	2500	4700*	–	7200*
12500	M/Rd 52 x 920		20	60	16000	4500	7100*	–	9500*

* with list 40.0 + 40.8 only