

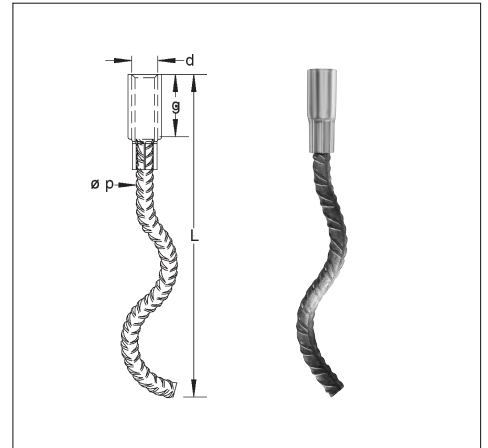
Wavytail Lifting Sockets

short form



List
31
short

Load-stages [kg]	Metric thread		Round thread (Rd)		Approx. weight per 100 pieces [kg]
	d x L [mm]	Reference No.	d x L [mm]	Reference No.	
500	M 12 x 150	k3112km	Rd 12 x 150	k3112kr	9.00
800	M 14 x 180	k3114km	Rd 14 x 180	k3114kr	16.61
1200	M 16 x 230	k3116km	Rd 16 x 230	k3116kr	28.48
1600			Rd 18 x 260	k3118kr	40.27
2000	M 20 x 260	k3120km	Rd 20 x 260	k3120kr	47.38
2500	M 24 x 300	k3124km	Rd 24 x 300	k3124kr	74.27
4000	M 30 x 420	k3130km	Rd 30 x 420	k3130kr	156.80
6300	M 36 x 460	k3136km	Rd 36 x 460	k3136kr	292.29
8000	M 42 x 500	k3142km	Rd 42 x 500	k3142kr	416.00



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 50961 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

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

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

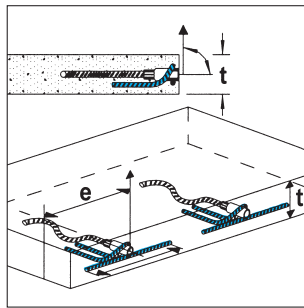
L = stretch length

inclined load, straight reinforcement

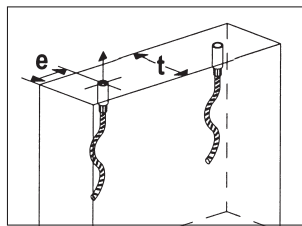
Thread	D [mm]	q [mm]	h [mm]	L [mm]
M+Rd 12	16.5	8	45	260
M+Rd 14	18.0	8	55	330
M+Rd 16	22.2	8	60	350
Rd 18	24.0	10	65	380
M+Rd 20	27.7	10	70	450
M+Rd 24	31.0	10	80	500
M+Rd 30	41.0	14	85	550
M+Rd 36	47.0	14	90	600
M+Rd 42	54.0	20	95	670
M+Rd 52	67.0	20	100	700

L = stretch length

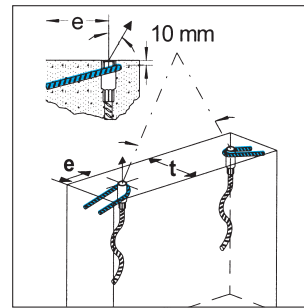
Minimum reinforcement: 2 Q 131 weld mesh (150 x 5 mm). Insure a minimum concrete covering to DIN 1045-1. Additional reinforcement for inclined and transverse loads.



transverse (in transverse direction to the slab)



axial (in the direction of the slab)



inclined (in the direction of the slab)

Load stages	Dimensions	Minimum slab thickness	Minimum distance to edge	Load capacity at $\geq 15 \text{ N/mm}^2$ (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	inclined load up to 45°		
						w/o U-re-bar for inclined load		with U-re-bar for inclined load & lifting loop
[kg]	d x L [mm]	t [cm]	e [cm]	[kg]	[kg]	with lifting loops List 40.0, 40.8 or 42	with lifting loop List 41	with lifting loop List 41
500	M/Rd 12 x 150	6	18	450	160	400	400	700
800	M/Rd 14 x 180	6	22	700	200	450	450	800
1200	M/Rd 16 x 230	8	25	1350	550	500	500	900
1600	Rd 18 x 260	10	30	1500	700	600	850	1150
2000	M/Rd 20 x 260	12	30	1700	750	750	850	1300
2500	M/Rd 24 x 300	12	32	2000	750	800	1300	1850
4000	M/Rd 30 x 420	14	35	3000	1650	1950	2150	3650
6300	M/Rd 36 x 460	14	40	5000	1700	2500*	–	4000*
8000	M/Rd 42 x 500	16	50	5400	1750	3650*	–	5600*

Load stages	Dimensions	Minimum slab thickness	Minimum distance to edge	Load capacity at $\geq 25 \text{ N/mm}^2$ (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	inclined load up to 45°		
						w/o U-re-bar for inclined load		with U-re-bar for inclined load & lifting loop
[kg]	d x L [mm]	t [cm]	e [cm]	[kg]	[kg]	with lifting loops List 40.0, 40.8 or 42	with lifting loop List 41	with lifting loop List 41
500	M/Rd 12 x 150	6	18	580	200	500	500	900
800	M/Rd 14 x 180	6	22	900	260	600	600	1000
1200	M/Rd 16 x 230	8	25	1700	800	650	650	1250
1600	Rd 18 x 260	10	30	1900	900	800	1100	1500
2000	M/Rd 20 x 260	12	30	2200	950	950	1100	1700
2500	M/Rd 24 x 300	12	32	2600	950	1000	1700	2400
4000	M/Rd 30 x 420	14	35	3900	2100	2500	2800	4700
6300	M/Rd 36 x 460	14	40	6450	2200	3200*	–	5100*
8000	M/Rd 42 x 500	16	50	7000	2250	4700*	–	7200*

* with list 40.0 + 40.8 only