

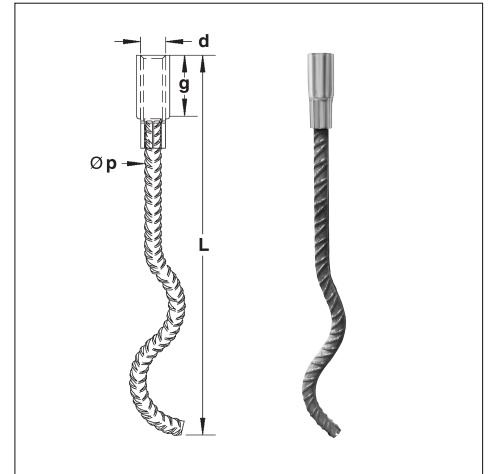
Wavytail Lifting Sockets

long type



List
31
long

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 300	k3112lm	Rd 12 x 300	k3112lr	14.92
800	M 14 x 310	k3114lm	Rd 14 x 310	k3114lr	25.00
1200	M 16 x 320	k3116lm	Rd 16 x 320	k3116lr	37.30
1600			Rd 18 x 360	k3118lr	50.94
2000	M 20 x 400	k3120lm	Rd 20 x 400	k3120lr	63.90
2500	M 24 x 450	k3124lm	Rd 24 x 450	k3124lr	98.17
4000	M 30 x 600	k3130lm	Rd 30 x 600	k3130lr	202.45
6300	M 36 x 750	k3136lm	Rd 36 x 750	k3136lr	428.77
8000	M 42 x 850	k3142lm	Rd 42 x 850	k3142lr	510.00
12500	M 52 x 920	k3152lm	Rd 52 x 920	k3152lr	780.00



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.

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.

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

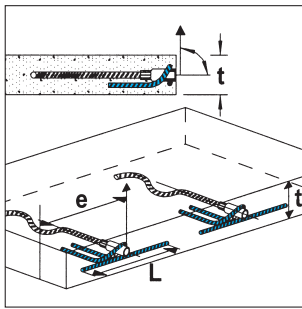
transverse reinforcement with 60° angle

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

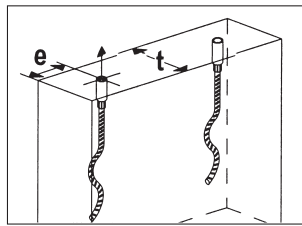
inclined load, straight reinforcement

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

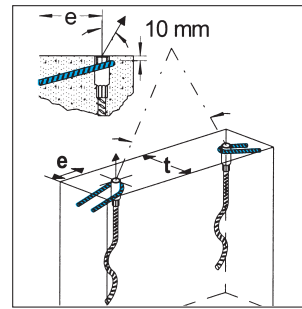
Minimum reinforcement: 2 Q 131 weld mesh (150 x 5 mm). Insure a minimum concrete covering to DIN 1045-1. Additional reinforcement for inclined and transverse loads.



transverse (in transverse direction to the slab)



axial (in the direction of the slab)



inclined (in the direction of the slab)

Load stages	Dimensions	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 [kg]	with lifting loop List 41 [kg]	[kg]
500	M/Rd 12 x 300	6	16	800	300	550	800	1100
800	M/Rd 14 x 310	6	18	900	300	650	850	1150
1200	M/Rd 16 x 320	7	18	1350	300	800	950	1250
1600	Rd 18 x 360	10	25	2100	850	900	1000	1400
2000	M/Rd 20 x 400	10	28	2500	850	1000	1150	1600
2500	M/Rd 24 x 450	10	30	3300	850	1100	1450	2000
4000	M/Rd 30 x 600	14	35	4750	1900	1950	3100	4350
6300	M/Rd 36 x 750	14	40	7500	2000	2700*	-	4500*
8000	M/Rd 42 x 850	20	50	10200	2000	4400*	-	5600*
12500	M/Rd 52 x 920	20	60	16500	3500	5500*	-	7350*

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 [kg]	with lifting loop List 41 [kg]	[kg]
500	M/Rd 12 x 300	6	16	1000	400	750	1000	1400
800	M/Rd 14 x 310	6	18	1150	400	850	1100	1500
1200	M/Rd 16 x 320	7	18	1700	400	1000	1200	1600
1600	Rd 18 x 360	10	25	2400	1100	1150	1300	1800
2000	M/Rd 20 x 400	10	28	2900	1100	1300	1500	2100
2500	M/Rd 24 x 450	10	30	4100	1100	1400	1900	2600
4000	M/Rd 30 x 600	14	35	6100	2500	2500	4000	5600
6300	M/Rd 36 x 750	14	40	9700	2500	3600*	-	5800*
8000	M/Rd 42 x 850	20	50	13150	2500	5700*	-	7200*
12500	M/Rd 52 x 920	20	60	18000	4500	7100*	-	9500*

* with list 40.0 + 40.8 only