

Standard fixings



Multi-purpose plug MZ and MZK



Multi-purpose plug MZ



Multi-purpose plug MZK with collar

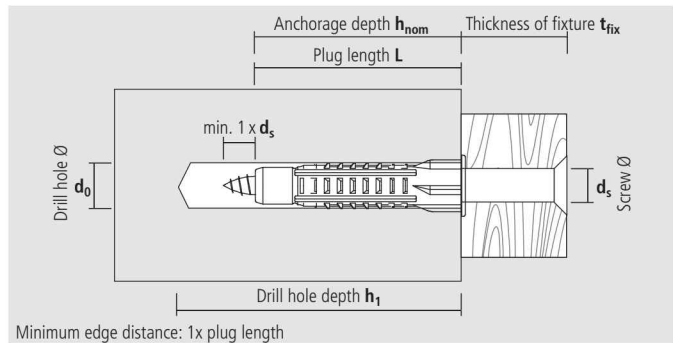


Advantages

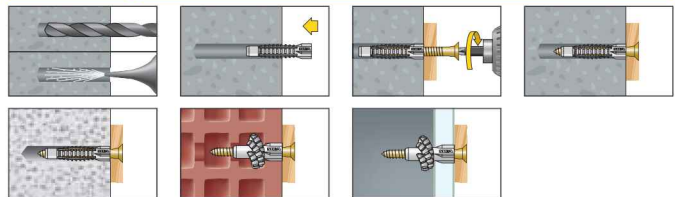
- Knotting plug that has proven its qualities millions of times; excellent performance in almost every building material
- The 4-sided expansion in solid building materials and the knotting in perforated bricks or board materials always provides a secure fixing with high pull out loads
- High quality polyethylene guarantees long lasting elasticity and reliable knotting behaviour
- Compatible with many types and sizes of screws

Suitable building materials

- ✓ Concrete
- ✓ Natural stone
- ✓ Solid brick
- ✓ Solid sand-lime brick
- ✓ Lightweight solid concrete blocks
- ✓ Aerated concrete
- ✓ Gypsum blocks
- ✓ Hollow brick
- ✓ Hollow sand-lime brick
- ✓ Lightweight hollow concrete blocks
- ✓ Plasterboard
- ✓ Chipboard



Mounting



Watch video at www.celo-apolo.de/en



MZ without collar

Type	Art-No		d_0 [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	L [mm]	h_{min}^1 [mm]	d_s [mm]	Price	Packing	
	new	old							€/100 pcs	[pcs]	[pcs]
MZ 6	96MZ	500170	6	40	29	29	7	3 - 4,5		100	6000
MZ 6-40	9640MZ	500173	6	50	40	40	7	3 - 4,5		100	4800
MZ 8	98MZ	500172	8	60	48	48	9	4 - 6		100	1800
MZ 10	910MZ	500174	10	75	59	59	12	6 - 8		50	900
MZ 12	912MZ	500175	12	85	71	71	15	8 - 10		50	600
MZ 14	914MZ	500176	14	95	75	75	15	10 - 12		25	300

¹ Min. thickness of structural part or board (e. g. for applications in plasterboard)



MZK with collar

Type	Art-No		d_0 [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	L [mm]	h_{min}^1 [mm]	d_s [mm]	Price	Packing	
	new	old							€/100 pcs	[pcs]	[pcs]
MZK 6	96MZK	500180	6	40	29	30	7	3 - 4,5		100	4800
MZK 6-41	9641MZK	500183	6	50	40	41	7	3 - 4,5		100	2700
MZK 8	98MZK	500182	8	60	48	49	9	4 - 6		100	1800
MZK 10	910MZK	500184	10	75	59	60	12	6 - 8		50	900
MZK 12	912MZK	500190	12	85	71	72	15	8 - 10		50	600
MZK 14	914MZK	500191	14	95	75	76	15	10 - 12		25	300

¹ Min. thickness of structural part or board (e. g. for applications in plasterboard)

Standard fixings



Multi-purpose plug MZ and MZK



MZK with collar, incl. PZ chipboard screw (MZK 6, 6-41 and 8) and Hexagon wood screw (MZK 10) respectively									Price	Packing	
Type	Art-No		d ₀	h ₁ ≥	h _{nom} ≥	L	h _{min} ¹	d _s x L _s ²	€/100 pcs	[pcs]	[boxes]
	new	old	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
MZK 6 SPS	96MZKSZ	–	6	40	29	30	7,0	4,5 x 45		50	2400
MZK 6-41 SPS	9641MZKSZ	–	6	50	40	41	7,0	4,5 x 50		50	1350
MZK 8 SPS	98MZKSZ	–	8	60	48	49	9,5	5,0 x 70		50	900
MZK 10 SKS	910MZKK	–	10	75	59	60	12,0	6,0 x 80		25	450

¹ Min. thickness of structural part or board (e. g. for applications in plasterboard)

² Screw length



MZK with collar, in round box									Price	Packing	
Type	Art-No		d ₀	h ₁ ≥	h _{nom} ≥	L	h _{min} ¹	d _s	€/box	[pcs]	[boxes]
	new	old	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
MZK 6-41	9641EXPMZK	500283	6	50	40	41	7,0	3 - 4,5		200	10
MZK 8	98EXPMZK	500282	8	60	48	49	9,5	4 - 6		90	10
MZK 10	910EXPMZK	500284	10	75	59	60	12,0	6 - 8		50	10
MZK 12	912EXPMZK	500290	12	85	71	72	15,0	8 - 10		25	10

¹ Min. thickness of structural part or board (e. g. for applications in plasterboard)



MZK Round box dispenser (empty); 44 x 56 x 30 cm (W x H x D)		Price	Packing
Type	Art-No	€/pcs	[pcs]
	new		
MZK-cover for round box dispenser	010507420		1
Round box dispenser	010507411		1
Hook for dispenser	010507441		1

Loads for wood screws F_{rec} and F_{eff} for the largest applicable screw diameter and full anchorage depth

Type	d _s	Concrete C20/25		Solid sand-lime brick KSV 12		Solid brick MZ 12		Aerated concrete P2		Aerated concrete P4		Hollow brick HLz 12		Plasterboard 12,5 mm		Chipboard 16 mm	
	[mm]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]
MZ/MZK 6	4,5	0,30	2,08	0,26	1,81	0,16	1,09	0,04	0,30	0,06	0,43	0,22	1,57	0,06	0,45	0,21	1,47
MZ/MZK 6-41	4,5	0,72	5,03	0,51	3,54	0,27	1,90	0,06	0,43	0,12	0,83	0,21	1,44	0,08	0,57	0,15	1,05
MZ/MZK 8	6	0,52	3,64	0,59	4,10	0,43	3,03	0,11	0,77	0,14	1,01	0,27	1,90	0,09	0,63	0,23	1,58
MZ/MZK 10	8	1,56	10,90	1,07	7,50	0,68	4,78	0,13	0,94	0,25	1,72	0,31	2,15	0,08	0,58	0,25	1,72
MZ/MZK 12	10	2,02	14,12	1,31	9,20	–	–	0,23	1,63	0,39	2,72	0,42	2,92	0,11	0,74	0,37	2,56
MZ/MZK 14	12	–	–	–	–	–	–	0,37	2,59	0,59	4,11	0,33	2,31	–	–	–	–

F_{rec}: Recommended loads incl. safety factor of 7

F_{eff}: Effective pull out loads excl. safety factor

Loads for chipboard screws F_{rec} and F_{eff} for the largest applicable screw diameter and full anchorage depth

Type	d _s	Concrete C20/25		Solid sand-lime brick KSV 12		Solid brick MZ 12		Aerated concrete P2		Aerated concrete P4		Hollow brick HLz 12		Plasterboard 12,5 mm		Chipboard 16 mm	
	[mm]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]	F _{rec} [kN]	F _{eff} [kN]
MZ/MZK 6	4,5	0,06	0,39	0,06	0,44	0,05	0,38	0,02	0,17	0,03	0,20	0,08	0,56	0,03	0,23	0,14	1,00
MZ/MZK 6-41	4,5	0,17	1,19	0,15	1,05	0,08	0,58	0,04	0,26	0,05	0,33	0,17	1,20	0,09	0,61	0,21	1,55
MZ/MZK 8	6	0,24	1,71	0,24	1,67	0,21	1,49	0,06	0,40	0,10	0,68	0,26	1,81	0,09	0,62	0,29	2,06
MZ/MZK 10 ¹	6	0,17	1,22	0,17	1,18	0,16	1,09	0,07	0,50	0,12	0,84	0,35	2,45	0,10	0,69	0,29	2,02

F_{rec}: Recommended loads incl. safety factor of 7

F_{eff}: Effective pull out loads excl. safety factor

¹ Load values apply to chipboard screws with Ø 6