

Standard plug F



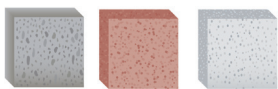
Advantages



- High pull out loads due to high expansion ability (four-sided expansion in the middle section)
- Very good screw guidance, i.e. the screw cannot move out of the plug during the screwing in
- Good twist resistance
- Strong design prevents bending when hammered in
- Good load values even in many perforated bricks and aerated concrete

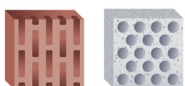
Suitable building materials

Very suitable



- Concrete
- Natural stone
- Solid brick
- Solid sand-lime brick
- Lightweight solid concrete blocks
- Aerated concrete
- Gypsum blocks

Suitable to a limited extent

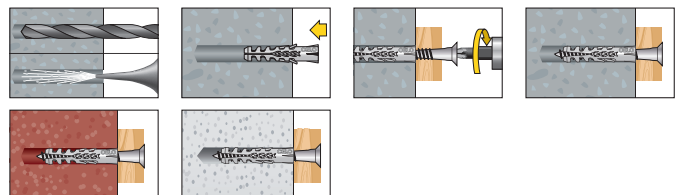


- Hollow brick
- Hollow sand-lime brick
- Lightweight hollow concrete blocks

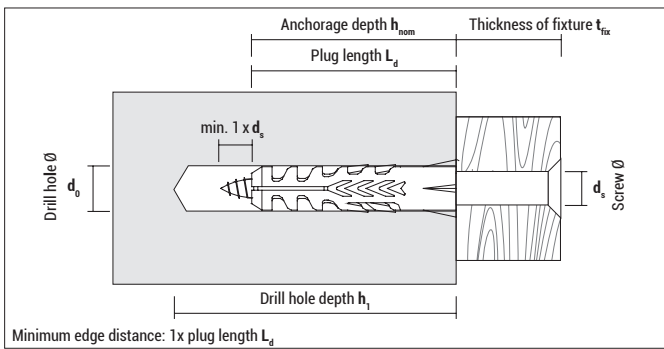
Approvals and certificates



Mounting

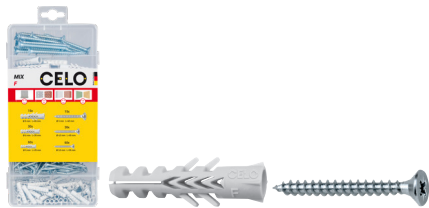


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F without screw

Type	Art-No	d_0 [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	L_d [mm]	d_s [mm]	€/ 100 pcs	[pcs]	[pcs]
F 4	94NF	4	30	20	20	2 - 3		200	12.000
F 5	95NF	5	35	25	25	2,5 - 4		100	6.000
F 6	96NF	6	40	30	30	3,5 - 5		100	6.000
F 7	97NF	7	40	30	30	4 - 5,5		50	3.000
F 8	98NF	8	55	40	40	4,5 - 6		100	2.700
F 10	910NF	10	70	50	50	6 - 8		50	1.350
F 12	912NF	12	80	60	60	8 - 10		25	675
F 14	914NF	14	90	70	70	10 - 12		20	540
F 16	916NF	16	100	80	80	12 - 14		10	270
F 20	920NF	20	120	90	90	16		5	135



Assortment box F with screw (210 pieces in total)

Type	Art-No	Box contains	d_0 [mm]	$h_1 \geq$ [mm]	L_d [mm]	d_s [mm]	€/ box	[box]	Min. sales unit [pcs]
F	MIXNFSZ210	60 Standard plug F 5 incl. SPS 3,5x35 V, Pozi 30 Standard plug F 6 incl. SPS 4,5x45 V, Pozi 15 Standard plug F 8 incl. SPS 5,0x60 V, Pozi	5 6 8	35 40 55	25 30 40	3,5 x 35 4,5 x 45 5,0 x 60		1	5

Packed in robust plastic box



Assortment box MZK and F without screw (156 pieces in total)

Type	Art-No	Box contains	d_0 [mm]	$h_1 \geq$ [mm]	L_d [mm]	d_s [mm]	€/ box	[box]	Min. sales unit [pcs]
MZK and F	MIXNFMZK156	30 Multi-purpose plug MZK 6 15 Multi-purpose plug MZK 8 6 Multi-purpose plug MZK 10 60 Standard plug F 5 30 Standard plug F 6 15 Standard plug F 8	6 8 10 5 6 8	40 60 75 35 40 55	30 49 60 25 30 40	3,0 - 4,5 4,0 - 6,0 6,0 - 8,0 2,5 - 4,0 3,5 - 5,0 4,5 - 6,0		1	5

Packed in robust plastic box

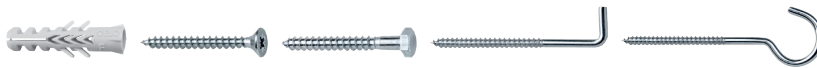
Standard plug F



Blister F without screw



Type	Art-No	d ₀ [mm]	h ₁ ≥ [mm]	h _{nom} ≥ [mm]	L _d [mm]	d _s [mm]	€ / Blister	[pcs]	[Blister]
F 4	54NF20	4	30	20	20	2 - 3		20	10
F 4	54NF50	4	30	20	20	2 - 3		50	10
F 5	55NF20	5	35	25	25	2,5 - 4		20	10
F 5	55NF50	5	35	25	25	2,5 - 4		50	10
F 6	56NF20	6	40	30	30	3,5 - 5		20	10
F 6	56NF50	6	40	30	30	3,5 - 5		50	10
F 7	57NF20	7	40	30	30	4 - 5,5		20	10
F 7	57NF50	7	40	30	30	4 - 5,5		50	10
F 8	58NF20	8	55	40	40	4,5 - 6		20	10
F 8	58NF40	8	55	40	40	4,5 - 6		40	10
F 10	510NF5	10	70	50	50	6 - 8		5	10
F 10	510NF20	10	70	50	50	6 - 8		20	10
F 12	512NF5	12	80	60	60	8 - 10		5	10
F 12	512NF8	12	80	60	60	8 - 10		8	10



Blister F with screw



Type	Art-No	d ₀ [mm]	h ₁ ≥ [mm]	h _{nom} ≥ [mm]	L _d [mm]	d _s x L _s [mm]	Type of screw	€ / Blister	[pcs]	[Blister]
F 4 SPS	54NFSZ20	4	30	20	20	3,0 x 25			20	10
F 5 SPS	55NFSZ20	5	35	25	25	3,5 x 35			20	10
F 6 SPS	56NFSZ20	6	40	30	30	4,0 x 40			20	10
F 6 WH	56NFWH5	6	40	30	30	4,2 x 40			5	10
F 6 RH	56NFRH5	6	40	30	30	4,2 x 65			5	10
F 8 SKS	58NFK5	8	55	40	40	5,0 x 50			5	10
F 8 WH	58NFWH5	8	55	40	40	5,0 x 50			5	10
F 8 RH	58NFRH5	8	55	40	40	5,4 x 80			5	10
F 8 SPS	58NFSZ20	8	55	40	40	5,0 x 50			20	10
F 10 SKS	510NFK5	10	70	50	50	7,0 x 65			5	10
F 12 SKS	512NFK2	12	80	60	60	8,0 x 80			2	10
F 12 SKS	512NFK5	12	80	60	60	8,0 x 80			5	10
F 14 SKS	514NFK2	14	90	70	70	10,0 x 90			2	10

Recommended loads F_{rec} using wood screws with the largest applicable screw diameter and full anchorage depth

Type	Screw Ø d _s [mm]	Concrete F _{rec} [kN]	Solid stone Mz 12 F _{rec} [kN]	Solid sand-lime brick KS 12 F _{rec} [kN]	Aerated concrete AAC2 F _{rec} [kN]	Aerated concrete AAC4 F _{rec} [kN]	Hollow brick HLz 12 F _{rec} [kN]
F 4	3	0,12	0,14	0,14	-	-	0,08
F 5	4	0,23	0,24	0,33	0,04	0,04	0,09
F 6	5	0,31	0,38	0,37	0,05	0,06	0,12
F 8	6	0,34	0,46	0,43	0,07	0,07	0,13
F 10	8	0,77	0,79	0,78	0,10	0,10	0,22
F 12	10	1,55	1,57	1,90	0,15	0,16	0,30
F 14	12	2,71	-	-	-	0,28	0,43
F 20	16	5,50	-	-	-	-	-

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

Values must be reduced by ca. 40% when using chipboard screws (especially in solid building materials)