Metal frame fixing F-M

The fixing for stress-free installation of window and door frames with fire classification





Applications

- · Window frames
- · Door frames
- · Squared timbers

Certificates



Advantages

- The F-M metal frame plug achieves fire resistance R 120. This allows for use in areas where fire resistance is relevant.
- The operating principle prevents the window frame from being pulled against the substrate, and ensures a stress-free and long-lasting fixing of the frame.
- $\cdot \,$ The special plug geometry anchors the

Building materials

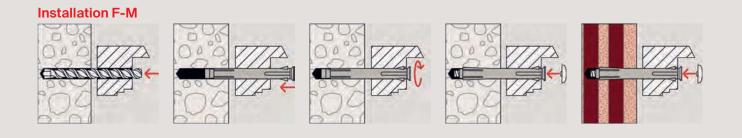
- · Concrete
- · Vertically perforated brick
- Hollow blocks made from lightweight concrete
- · Perforated sand-lime brick
- · Solid sand-lime brick
- · Aerated concrete
- Solid brick made from lightweight concrete
- · Solid brick

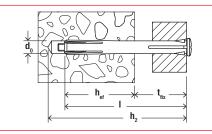
metal and plastic profiles against compressive and tensile loads, and allows for a secure hold of the window frame.

 The cover caps (available separately) can be used to discreetly cover the screw heads.

Functioning

- The F-M is suitable for push-through installation.
- By tightening the screw, the cone is drawn into the sleeve and the fixing is expanded which wedges it inside the drill hole. The window frames are thus fixed in a stress-free manner.
- The maximum installation torque is 5 Nm.





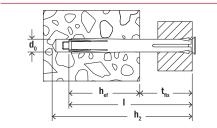
Technical data

Metal frame fixing F-M

F 8 M - with zinc-plated raised countersunk screw and cross drive PZ2

		Drill hole diam- eter	Min. drill hole depth for through fixings	Effect. anchorage depth	Anchor length	Max. fixture thickness	Drive	Sales unit
	Item No.	d _o [mm]	h ₂ [mm]	h _{ef} [mm]	l [mm]	t _{fix} [mm]		[pcs]
Item		[]	[]	[]	[]	[]		[[000]
F 8 M 72	088660 1)	8	90	30	72	42	PZ2	100
F 8 M 92	088662 1)	8	110	30	92	62	PZ2	100
F 8 M 112	088664 1)	8	130	30	112	82	PZ2	100
F 8 M 132	088666 1)	8	150	30	132	102	PZ2	100

1) Screw head Ø 10 mm



Technical data

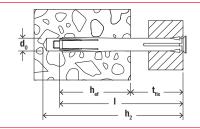
Metal frame fixing F-M

F 10 M - with zinc-plated countersunk head screw and cross drive PZ3

		Drill hole diam- eter	Min. drill hole depth for through fixings	Effect. anchorage depth	Anchor length	Max. fixture thickness	Drive	Sales unit
		d ₀	h ₂	h _{ef}	1	t _{fix}		
	Item No.	[mm]	[mm]	[mm]	[mm]	[mm]		[pcs]
Item								
F 10 M 72	088670 ¹⁾	10	90	30	72	42	PZ3	100
F 10 M 92	088672 ¹⁾	10	110	30	92	62	PZ3	100
F 10 M 112	088674 ¹⁾	10	130	30	112	82	PZ3	100

1) Screw head Ø 13 mm





Technical data

Metal frame fixing F-M

- 0 F 10 M - with zinc-plated countersunk head screw and cross drive PZ3

		Drill hole diam- eter	Min. drill hole depth for through fixings	Effect. anchorage depth	Anchor length	Max. fixture thickness	Drive	Sales unit
		d ₀	h ₂	h _{ef}	L	t _{fix}		
	Item No.	[mm]	[mm]	[mm]	[mm]	[mm]		[pcs]
Item								
F 10 M 132	088676 ¹⁾	10	150	30	132	102	PZ3	100
F 10 M 152	088678 ¹⁾	10	170	30	152	122	PZ3	100
F 10 M 182	088680 1)	10	200	30	182	152	PZ3	50
F 10 M 202	061064 ¹⁾	10	220	30	202	172	PZ3	50

1) Screw head Ø 13 mm

Accessories

Cover cap (F-M)

ADM 10 W

		Colour	Cap height	Cap	Match	Sales unit
	Item No.		[mm]	[Ø mm]		[pcs]
	Item No.		[mm]	נט ווווון		[hcs]
Item						
ASM 10 W	060320	white	3	15	F 10 M	100
ADM 10 W	088688	white	4	16,5	F 10 M	100

Loads

Metal frame fixing F-M

Recommended loads¹ of a single anchor as part of a multiple fixing of non-structural systems.

Туре			F 8 M	F 10 M
Recommended loads in the respective base material $F_{\mathrm{rec}}^{\ 2)}$				
Concrete	≥ C20/25	[kN]	1.00	1.40
Solid brick	≥ Mz 12	[kN]	0.30	1.30
Solid sand-lime brick	≥ KS 12	[kN]	0.70	1.30
Solid brick of lightweight aggregate concrete	≥ V 2	[kN]	-	0.50
Perforated sand-lime brick	≥ KSL 6	[kN]	0.25	0.60

 $^{\eta}$ Required safety factors are considered. 2 Valid for tensile load, shear load and oblique load under any angle.