

Metal expansion anchor FMD

The metal anchor for wood and chipboard screws



Pipes



Gas meters

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Applications

- Gas pipes
- Water pipes
- Cable and pipe clips

Advantages

- The metal expansion anchor FMD is especially suited to applications in installation technology.
- The external teeth expand in the building material, thus ensuring a high load-bearing capacity.

- The ribbed internal geometry of the FMD is suitable for wood and chipboard screws, and makes it possible to guide the screw securely. This offers increased installation safety, and enables a broad range of applications.

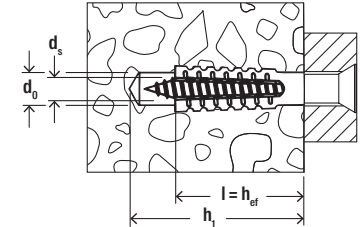
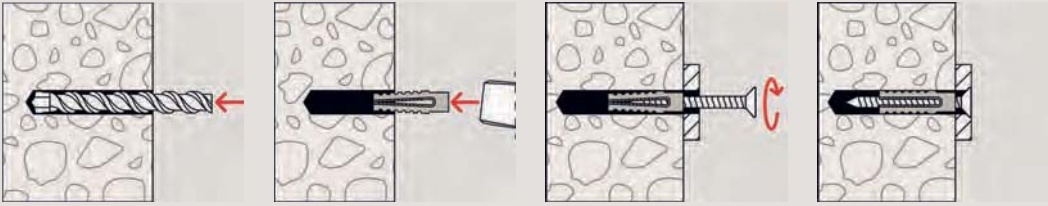
Building materials

- Concrete
- Vertically perforated brick
- Hollow blocks made from lightweight concrete
- Cavity floor slabs made from bricks and concrete
- Perforated sand-lime brick
- Solid sand-lime brick
- Natural stone with dense structure
- Aerated concrete
- Solid brick made from lightweight concrete
- Solid panel made from gypsum

Functioning

- The FMD is suitable for pre-positioned installation.
- Inserting the screw causes the FMD to expand, and the metal teeth fix the anchor securely in the building material.
- The required (stud) screw length is given by: Anchor length + plaster and/or insulation layer thickness + fixture thickness or installation spacing + 1 x screw diameter.
- Suitable for wood and chipboard screws.
- The drill diameter is relative to the compressive strength of the building material. The higher the compressive strength, the greater the drill diameter. The 6x32 and 8x38 sizes can be hammered directly into low-strength aerated concrete without the need for pre-drilling.

Installation FMD



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Technical data

Metal expansion anchor FMD



FMD

Item	Item No.	Drill hole diameter d_0 [mm]	Min. drill hole depth h_1 [mm]	Anchor length l [mm]	Screw diameter d_s [mm]	Sales unit [pcs]
FMD 6 x 32	061224 ¹⁾	6 - 7	38	32	5 - 6	100
FMD 8 x 38	061225 ¹⁾	10 - 12	46	38	6 - 8	100
FMD 8 x 60	061226 ¹⁾	10 - 12	68	60	6 - 8	50
FMD 10 x 60	061209 ¹⁾	12 - 14	68	60	8 - 10	50

¹⁾ The drill diameter is relative to the substrate compressive strength. Generally, the higher the compressive strength, the greater the drill diameter.

Recommended drill hole diameter [mm]

Type		FMD 6 x 32	FMD 8 x 38	FMD 8 x 60	FMD 10 x 60
Concrete	C 20/25	7	10	12	14
Aerated concrete	ACC 4	6	10	10	12
Vertically perforated brick	Hlz 12	7	10	10	12

Loads

Metal expansion fixing FMD

Highest recommended loads¹⁾ for a single anchor.

The given loads are valid for wood screws with maximum diameter.

Type		FMD 8 x 38	FMD 8 x 60	FMD 10 x 60
Wood screw diameter	[mm]	8	8	10
Recommended loads in the respective base material F_{rec} ²⁾				
Aerated concrete	≥ AAC 2 (G2)	[kN] 0.20	0.30	0.40
Aerated concrete	≥ AAC 4 (G4)	[kN] 0.30	0.40	0.60

¹⁾ Required safety factors are considered.

²⁾ Valid for tensile load, shear load and oblique load under any angle.