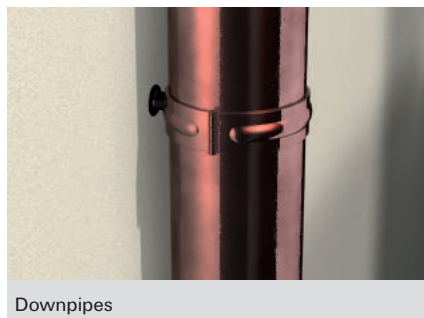


The expansion plug for metric screws and threaded bolts



Downpipes



Folding shutters

BUILDING MATERIALS

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

CERTIFICATES



ADVANTAGES

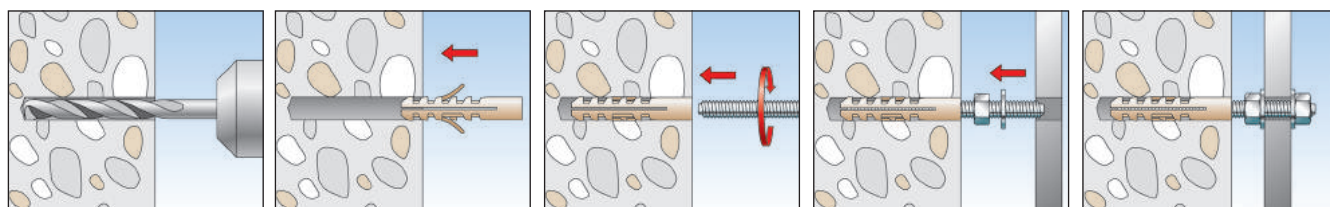
- The internal geometry of the M-S allows for the use of standard metric screws or threaded rods for the ideal adaptation to suit the intended use.
- The rimless plug sleeve allows for the plug to be set as deep as required below the plaster to the bearing substrate to achieve the maximum load-bearing capacity.
- As the plug only expands in two directions, it is possible to direct the expansion forces so that they run parallel to the edge of the building material by turning the plug. This allows for smaller edge distances.
- The slimline plug geometry makes it easy to push the plug into the drill hole, for a fast and simple installation.

APPLICATIONS

- Handles
- Folding shutters
- Trellis
- Downpipes
- Stand-off installation
- Window fittings
- Gratings

FUNCTIONING

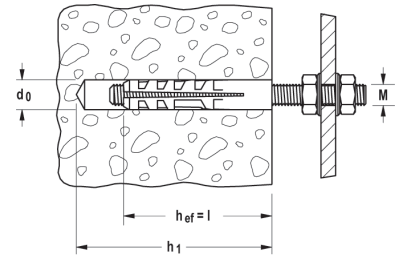
- The M-S is suitable for pre-positioned and push-through installation.
- When turning in the screw, the M-S expands in two directions, thus providing a secure anchoring in the building material.
- The required screw length is given by: Plug length + plaster and/or insulation layer thickness + fixture thickness + 1 x screw diameter.
- Suitable for metric screws and threaded bolts.
- Chamfer the thread to make it easier to screw in screws and threaded rods.



TECHNICAL DATA



Anchor **M-S** for metric screws



Item	Art.-No.	Drill hole diameter d_0 [mm]	Min. drill hole depth h_1 [mm]	Anchor length l [mm]	Thread M	Sales unit [pcs]		
M 6 S	050152	8	55	40	M 6	100		
M 8 S	050153	10	70	50	M 8	50		
M 10 S	050154	14	90	70	M 10	20		
M 12 S	050155	16	100	80	M 12	10		

LOADS

Anchor M-S

Highest recommended loads¹⁾ for a single anchor.

The given loads are valid for metric screws with the specified thread size.

Type			M 6 S	M 8 S	M 10 S	M 12 S
Thread size	[M]		M 6	M 8	M 10	M 12
Recommended loads in the respective base material F_{rec}²⁾						
Concrete	C20/25	[kN]	0,30	0,54	0,66	1,06
Solid brick	Mz 12	[kN]	0,24	0,33	0,46	0,79
Solid sand-lime brick	KS 12	[kN]	0,24	0,33	0,43	0,71

¹⁾ Required safety factors are considered.

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