The versatile metal cavity fixing with metric screws

Curtain rails

Shelves

BUILDING MATERIALS

- Gypsum plasterboard and gypsum fibreboards
- Cavity floor slabs
- Light building boards made of wood wool
- Chipboard
- Plywood boards

ADVANTAGES

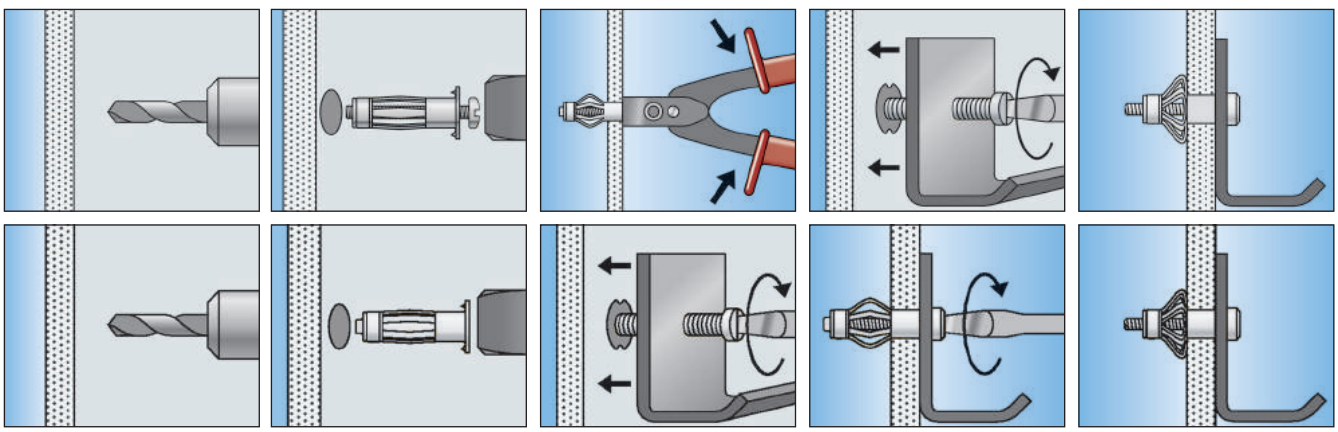
- Due to the extensive range, the HM is suitable for board building materials with a thickness of 3-50 mm and thus suitable for a number of different applications.
- The metric internal thread allows the attachment to be removed and refitted several times, thus offering the best possible flexibility.
- The HM's expanding arms ensure a large supporting surface, thus allowing a high load-bearing capacity.
- The claws around the edge of the fixing penetrate the board building material, preventing the fixing from rotating, thus ensuring a secure installation.

APPLICATIONS

- Pictures
- Lighting
- Light shelves
- Towel rails
- Mirror cabinets
- Curtain rails
- Sub-structures

FUNCTIONING

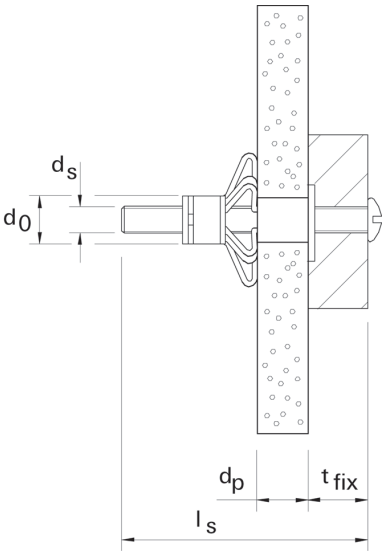
- The metal cavity fixing HM is suitable for pre-positioned installation.
- The fixing should be selected based on the thickness of the board building material, to allow the very best expansion in the cavity.
- During installation, the expanding arms swing open and press onto the reverse side of the board.
- The HM can be installed using installation pliers. If using a battery operated screwdriver or screwdriver for installation, the pre-assembled screws must be removed first. When screwing in and expanding the fixing, the attachment, or a max. 6 mm plate, needs to be used as a turning stop.



Metal cavity fixing HM

TECHNICAL DATA

HM-S with metric screw



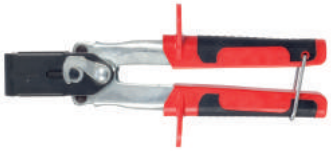
HM-SS with hexagon headed screw

HM-H with angle hook

Item	Art.-No.	Drill hole diameter d_0 [mm]	Min. drill hole depth h_1 [mm]	Anchor length l [mm]	Screw $d_s \times l_s$ [mm]	Panel thickness d_p [mm]	Fixture thickness t_{fix} [mm]	Drive	Sales unit [pcs]
HM 4 x 32 S	**519769**	8	40	32	M 4 x 40	3 - 13	≤ 15 - 25	PH2	50
HM 4 x 45 S	**519770**	8	52	45	M 4 x 52	16 - 23	≤ 12 - 21	PH2	50
HM 4 x 60 S	**519771**	8	65	60	M 4 x 65	31 - 40	≤ 12 - 21	PH2	50
HM 5 x 37 S	**519772**	10	45	37	M 5 x 45	6 - 15	≤ 8 - 17	PH2	50
HM 5 x 52 S	**519774**	10	58	52	M 5 x 58	7 - 21	≤ 10 - 24	PH2	50
HM 5 x 65 S	**519775**	10	71	65	M 5 x 71	20 - 34	≤ 12 - 26	PH2	50
HM 6 x 37 S	**519777**	12	45	37	M 6 x 45	6 - 15	≤ 12 - 21	PH3	50
HM 6 x 52 S	**519778**	12	58	52	M 6 x 58	7 - 21	≤ 14 - 28	PH3	50
HM 6 x 65 S	**519782**	12	71	65	M 6 x 71	17 - 34	≤ 13 - 30	PH3	50
HM 6 x 80 S	**519779**	12	88	80	M 6 x 88	32 - 50	≤ 16 - 34	PH3	50
HM 8 x 54 SS	**519783** 1)	12	60	54	M 8 x 60	7 - 21	≤ 16 - 30	SW13	50
HM 4 x 32 H	**519780**	8	45	32	–	3 - 13	–	–	50
HM 5 x 65 H	**519781**	10	71	65	–	20 - 34	–	–	50

1) with hexagon headed screw, assembly only by using the professional installation tool HM Z 1

ACCESSORIES



HM Z 1 - the professional installation tool

HM Z 2 - the DIY installation tool

Item	Art.-No.	Adapted for	Sales unit [pcs]
HM Z 1	**062320**	HM 4 - HM 8	1
HM Z 2	**062321**	HM 4 - HM 6	1

LOADS

Metal cavity fixing HM

Highest recommended loads[1] for a single anchor.

Type			HM 4 x 32 S	HM 4 x 46 S	HM 5 x 37 S	HM 5 x 52 S	HM 5 x 65 S	HM 6 x 37 S	HM 6 x 52 S	HM 6 x 65 S	HM 8 x 55 SS
Thread size		[M]	M4	M4	M5	M5	M5	M6	M6	M6	M8
Recommended loads in the respective base material F_{rec}[2]											
Gypsum plasterboard	9,5 mm	[kN]	0,15	0,15	0,15	0,15	-	0,15	-	-	-
Gypsum plasterboard	12,5 mm	[kN]	0,20	0,20	0,20	0,20	-	0,20	0,20	-	0,20
Gypsum plasterboard	19 mm (2 x 9,5 mm)	[kN]	-	-	-	0,25	-	-	0,25	-	0,25
Gypsum plasterboard	25 mm (2 x 12,5 mm)	[kN]	-	-	-	-	0,30	-	-	0,30	-
Chipboard	10 mm	[kN]	0,25	0,25	0,25	0,25	-	0,25	0,25	-	0,25
Chipboard	13 mm	[kN]	0,25	0,25	0,25	0,25	-	0,25	0,25	-	0,25
Chipboard	28 mm	[kN]	-	-	-	-	0,50	-	-	0,50	-
Plywood	4 mm	[kN]	0,10	-	-	-	-	-	-	-	-
Hardboard	3 mm	[kN]	0,10	-	-	-	-	-	-	-	-
Wood wool slab	16 mm	[kN]	-	0,05	-	0,05	-	-	0,05	-	0,05
Wood wool slab	25 mm	[kN]	-	-	-	-	0,05	-	-	0,05	-
Fibre cement board	8 mm	[kN]	0,25	0,25	0,25	0,25	-	0,25	-	-	-
Gypsum fibreboard	10 mm	[kN]	0,25	0,25	0,25	0,25	-	0,25	0,25	-	0,25
Gypsum fibreboard	15 mm	[kN]	-	0,25	0,25	0,25	-	0,25	0,25	-	0,25

[1] Required safety factors are considered.

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