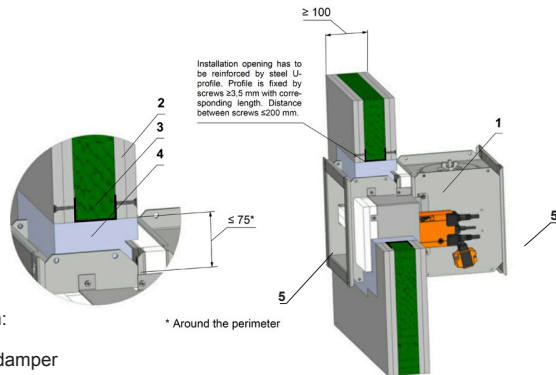


FDMA EI 120 S (Lightweight wall - Gypsum fire stop)



Position:

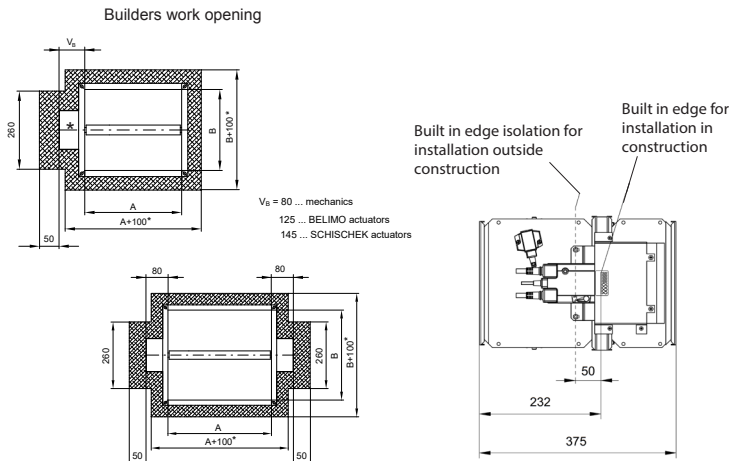
* Around the perimeter

- 1 Fire damper
- 2 Gypsum wall
- 3 Mineral wool (type depending on the type of construction)
- 4 Gypsum plaster to EN 13279-1 class A min density 670 kg m³ typically BG Thistle bond 60 (or equivalent)
- 5 DW144 standard duct supported to flanged breakaway joint on both front and rear of damper

Wall build construction must be symmetrical and in accordance with BS EN 1363-1 and tested in accordance with BS EN 1364-1. FDMA lightweight wall minimum thickness is 100mm

FDMA can be installed with blade axis positioned either vertically or horizontally and with the actuator positioned at 0°, 90° or 270°, but not at 180°.

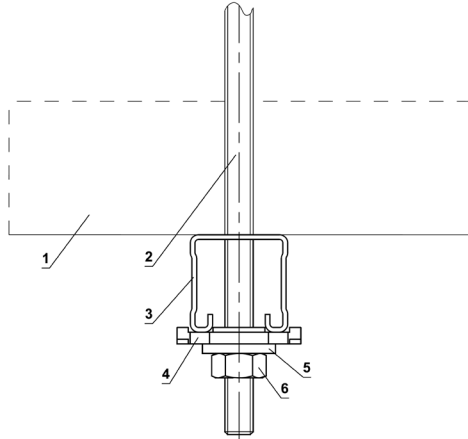
Detail of plasterboard construction according to Rigips instructions (substitutes can be used that have a minimum of 2 x 15mm gypsum boards per side, such as British Gypsum, Knauf or Lafarge products that are the same overall wall thickness & EI performance).



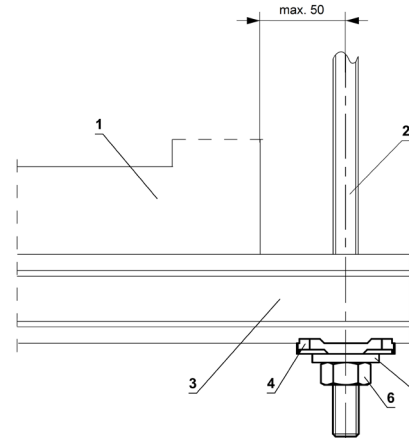
*Actual size based on actuator type - see full TPM
For larger format dampers, potentially two sprig cut-outs are required (only for dampers with mechanical controls).

The recommended dimension of the installation opening is from 25 mm to 50 mm on both sides (it means from A+50 to A+100 or B+50 to B+100). For dimensions exceeding, use two closing sprigs.

Drop rod and hanger location, please ensure that actuator operation is not compromised and ensure sufficient space to allow access hatch removal.



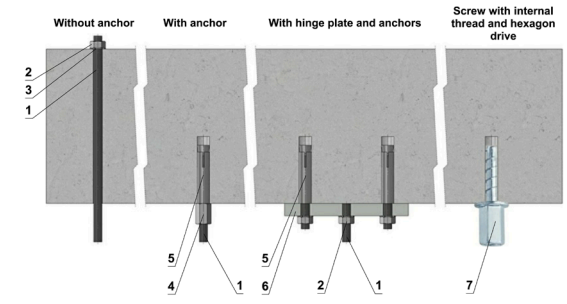
Drop rod and hanger position is not critical and can be positioned to suit the particular installation, applying symmetry where possible.



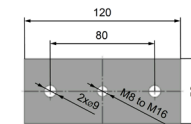
Position:

- 1 FDMA
- 2 Threaded rod M8 - M20
- 3 Support HILTI (MQ-41 = <100kg or MQ-41/3 = >100kg)
- 4 Bored plate HILTI MQZ-L
- 5 Washer for M8 - M20
- 6 Nut M8 - M20

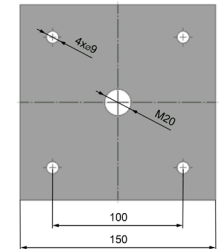
Advice provided by a fixing specialist contractor takes precedence.



Hinge plates



Screw with internal thread and hexagon drive



Load capacities of threaded hanger rods F [N] at the required fire resistance 90 minutes

Size	As [mm]	Weight G [kg]	
		for 1 piece	for 1 pair
M8	36.6	22	44
M10	58	35	70
M12	84.3	52	104
M14	115	70	140
M16	157	96	192
M18	192	117	234
M20	245	150	300

Position:

- 1 Threaded rod M8 - M20
- 2 Nut
- 3 Washer
- 4 Coupling nut
- 5 Anchor
- 6 Hinge plate - min. thickness 10mm
- 7 Concrete screw tested for fire resistance R30-R90, max. tension up to 0.75KN (length 35mm)

Drop rod diameter is based on damper weight, see full Damper TPM for further technical details or contact help@Mandik.co.uk. Mandik reserves the right to update this information without prior notice.

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		www.mandik.co.uk Office: 0117 4526376		CE certified acc. to EN 15650	
Title: FDMA - Lightweight wall/ Gypsum		Tested in accordance with EN 1366-2			
Classification: EI 120 (ve i<->o) S		Size: (min-max) 180x180 - 1600x1000		Date: 29/10/2021	
Drawing No: 0000-0000-015 Rev 4		Illustrated: GP		Approved: MF	
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