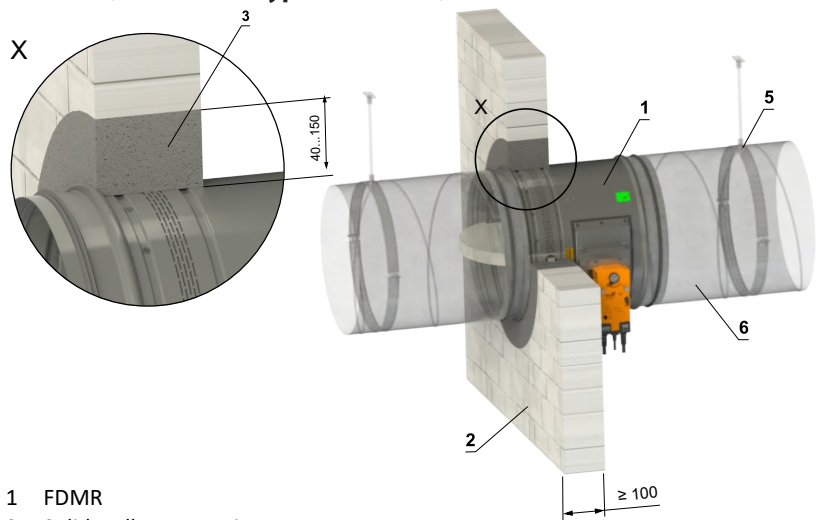


FDMR (Solid wall - Gypsum/Mortar) EI 120 S - UKCA



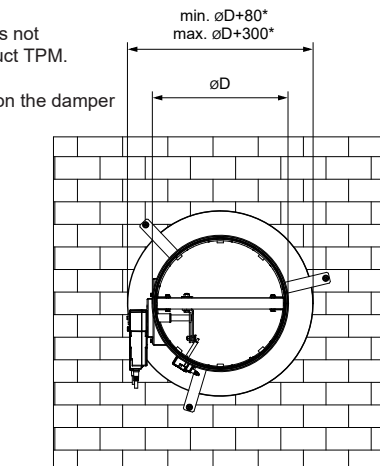
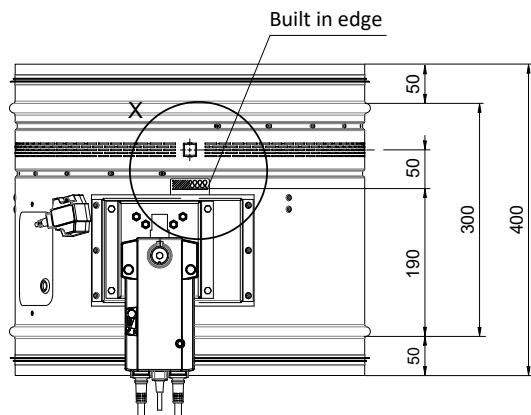
- 1 FDMR
- 2 Solid wall construction
- 3 British gypsum thistle bond 60 (or equivalent can by used) minimum density 670 kg/m³
- 4 Damper bracket
- 5 Circular suspension with threaded rod
- 6 Duct

FFDM breakaway joint should be used either side of the damper.

FDMR 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°.

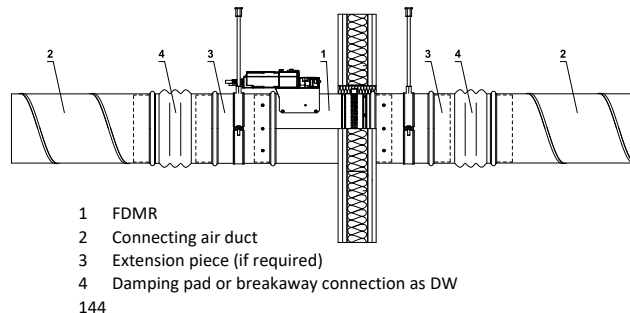
Blade overlaps must be accounted for to ensure blade operation is not compromised. For full blade overlap dimensions please see product TPM.

Damper must be installed to built in edge shown by orange label on the damper

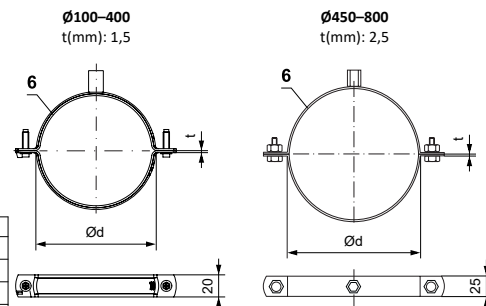
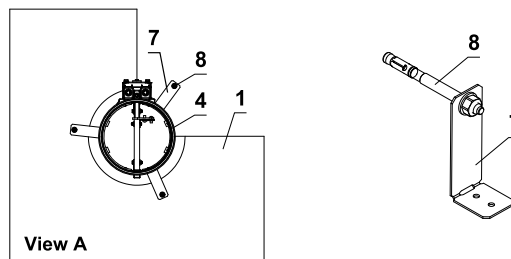


*In the case of fire resistance EI 120, the installation gap is limited to 50 mm +10/-0. For fire resistance EI 90 or lower, an installation gap range of 50–150 mm is permitted.

Duct Connection



Placing of mounting brackets In solid wall construction



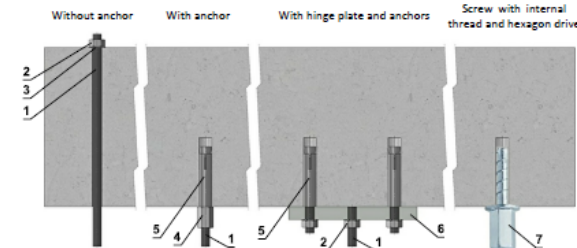
Ø100-400
With slotted quick closure.
With screw M6x20 and head: hex 1/4" and PH2.
Connection nut M8+M10.

Ø450-800
With Ø 10 hole.
With bolt and nut H17 M10x30.
Connection nut M8+M10.

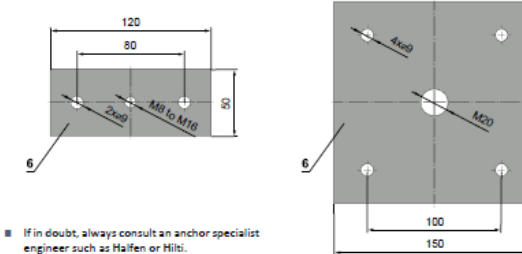
- 1 Solid wall construction
- 4 FDMR
- 6 Circular suspension with threaded rod
- 7 Damper bracket
- 8 M8 anchor with nut

Advice provided by a fixing specialist contractor takes precedence.

Examples of anchoring to the ceiling construction
Follow the instructions of fixing specialist or installation company



Hinge plates



■ If in doubt, always consult an anchor specialist engineer such as Hilti or Hilti.

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

Load capacities of threaded rods at the required fire resistance 60 min. < t ≤ 120 min.

Size	As [mm²]	Weight [kg]	
		for 1 rod	for 2 rods
M8	36,6	22	44
M10	58	35	70
M12	84,3	52	104
M16	157	96	192
M18	192	117	234
M20	245	150	300

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.

MANDIK®

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BS32 4AQ

Title: **FDMR - Solid wall - Gypsum/Mortar**

UKCA certified acc. to EN 15650

Classification: **EI 120 (ve i<->o) S**

Tested in accordance with EN 1366-2

Drawing No: **0000-0000-310 Rev 4**

Size: (min-max) **100Ø-800Ø**

Date: **06/06/2025**

Illustrated: **AA** Approved: **MF**

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