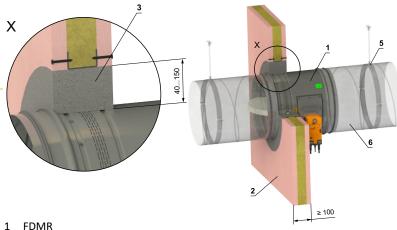
# FDMR (Lightweight Wall - Gypsum/Mortar) EI 120 S - UKCA



- Gypsum wall construction
- British gypsum thistle bond 60 (or equivalent can by used) minimum density 670 kg/m<sup>3</sup>
- 4 Damper bracket
- Circular suspension with threaded rod
- 6 Duct

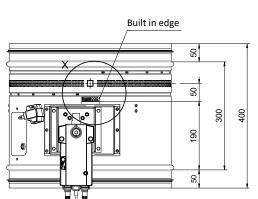
FFDM breakaway joint should be used either side of the damper.

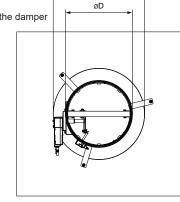
Wall build construction must be symmetrical and in accordance with BS EN 1363-1 and tested in accordance with BS EN 1364-1.

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

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°.

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



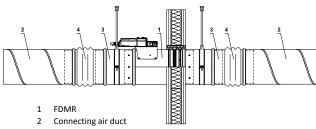


min. øD+80\*

max. ØD+300\*

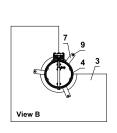
\*In the case of fire resistance EI 120, the installation gap is limited to 50 mm +10/-0. For fire resistance EI 90 or lower, an installation gap range of 50-150 mm is permitted.

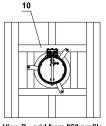
### **Duct Connection**



- Extension piece (if required)
- Damping pad or breakaway connection as DW 144

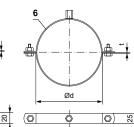
# Placing of mounting brackets In gypsum wall construction





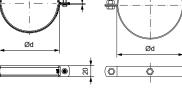


## Ø100-400 t(mm): 1.5



Ø450-800

t(mm): 2,5



#### Ø100-400

With slotted quick closure. With screw M6×20 and head: hex 1/4" and PH2. Connection nut M8+M10.

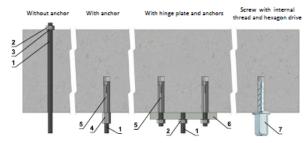
#### Ø450-800

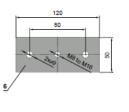
With Ø 10 hole. With bolt and nut H17 M10×30. Connection nut M8+M10.

- 3 Gypsum wall construction
- 4 FDMR
- 6 Circular suspension with threaded rod
- 7 Damper bracket
- 8 M8 anchor with nut
- 9 Screw with hexagon head M8x45 mm
- 10 Gypsum grid from "C" profile

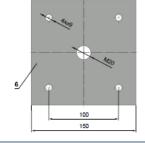
Advice provided by a fixing specialist contractor takes precedence.

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





 If in doubt, always consult an anchor specialis engineer such as Halfen or Hilti



- 1 Threaded rod M8 M20
- 2 Nut M8 M20
- Washer for M8 M20
- 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)

fire resistance 60 min. < t ≤ 120 min.

Load capacities of threaded rods at the required

	Size	As [mm²]	Weight [kg]	
	Size		for 1 rod	for 2 rods
- n = -	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.

MVNJ(K <sub>®</sub>	Mandik UK Ltd www.mandik.co.uk Office: 0117 4526376	2440 The Quadrant Aztec West Bristol BS32 4AQ
Title: FDMR - Lightweight wall - Gypsum/Mortar	UKCA certified acc. to EN 15650	
Classification:	Tested in accordance with EN 1366-2	
El 120 (ve i<->o) S	Size: (min-max)	0Ø-800Ø
Drawing No:	Date: 06/06/2025	
0000-0000-320 Rev 4	Illustrated: AA	Approved: MF
	•	•

Intellectual property of MANDIK Ltd. Unauthorised use shall be punishable by law