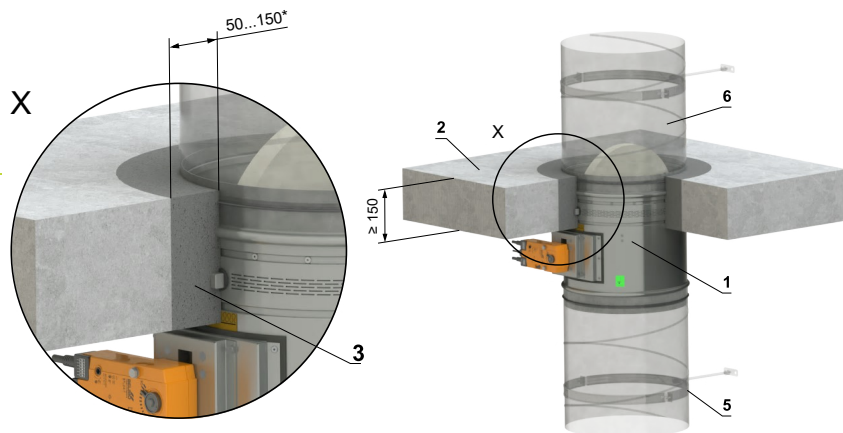


FDMR - Solid Ceiling Construction - Mortar or Gypsum - EI 120 (h₀ i↔o) S* / EI 90 (h₀ i↔o) S - UKCA



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

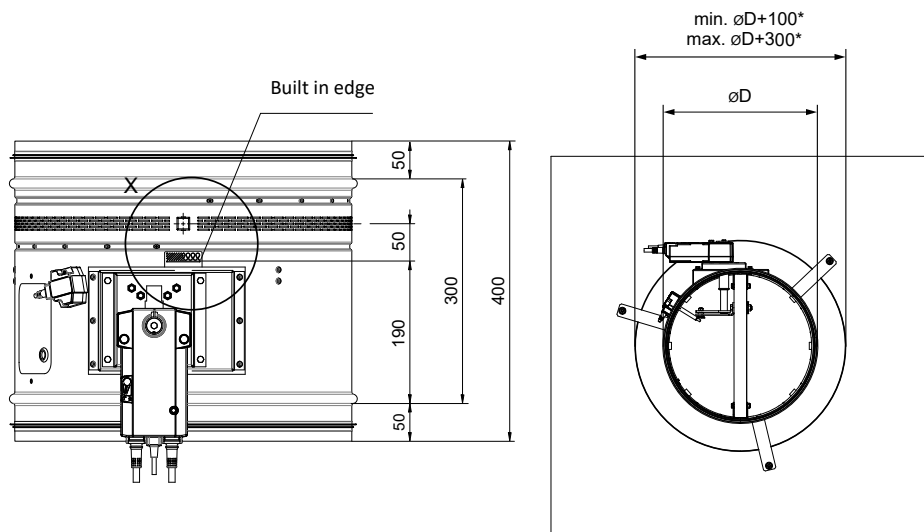
* In the case of fire resistance EI 120, the installation gap is limited to 50 mm +10/-0.

For fire resistance EI 90 or lower, an installation gap range of 50–150 mm is permitted.

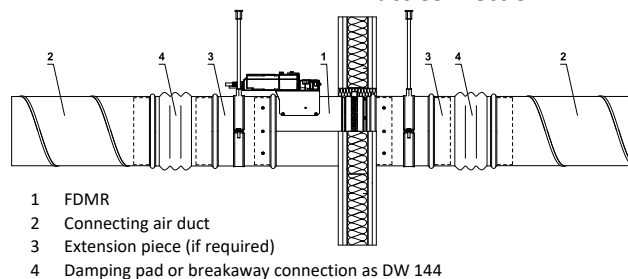
FFDM or alternative breakaway joint must be used either side of the damper

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

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

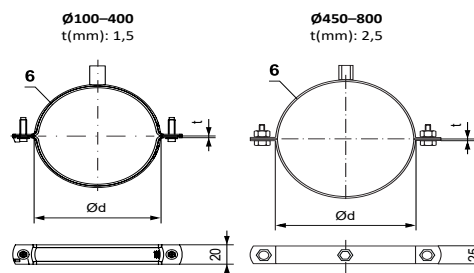
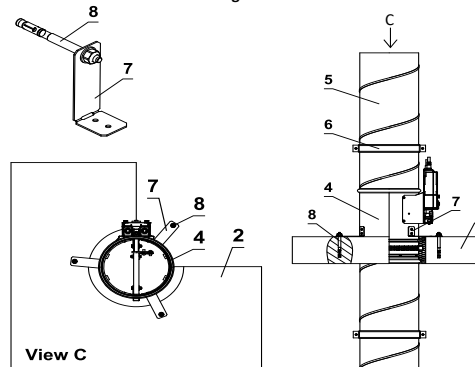


Duct Connection



- 1 FDMR
- 2 Connecting air duct
- 3 Extension piece (if required)
- 4 Damping pad or breakaway connection as DW 144

Placing of mounting brackets In solid ceiling construction



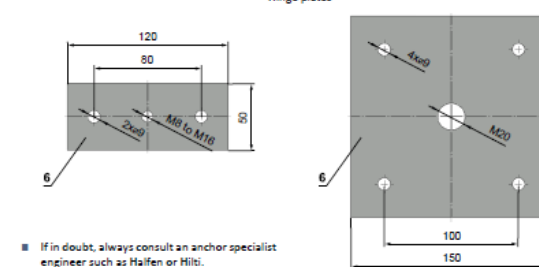
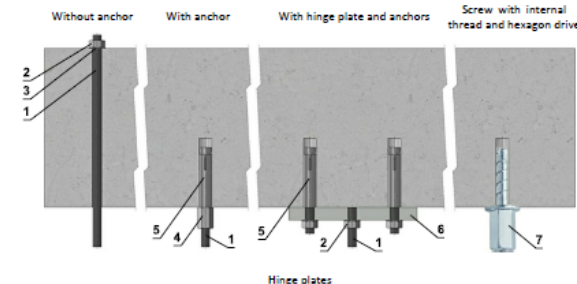
Ø100-400
With slotted quick closure.
With screw M6×20 and head: hex 1/4" and PH2.
Connection nut M8+M10.

Ø450-800
With Ø 10 hole.
With bolt and nut H17 M10×30.
Connection nut M8+M10.

- 2 Solid ceiling construction
- 4 FDMR
- 5 Connecting air duct
- 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



■ If in doubt, always consult an anchor specialist engineer such as Hailfen 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 [mm ²]	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 technical@Mandik.co.uk. Mandik reserves the right to update this information without prior notice.

MANDIK®

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BS32 4AQ

Title: **FDMR - Slab - Gypsum/Mortar**

UKCA certified acc. to EN 15650

Classification: **EI 120 (h₀ i↔o) S**

Tested in accordance with EN 1366-2

Drawing No: **0000-0000-330 Rev 5**

Size: (min-max) **1000-8000**

Date: **25/08/2026**

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

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