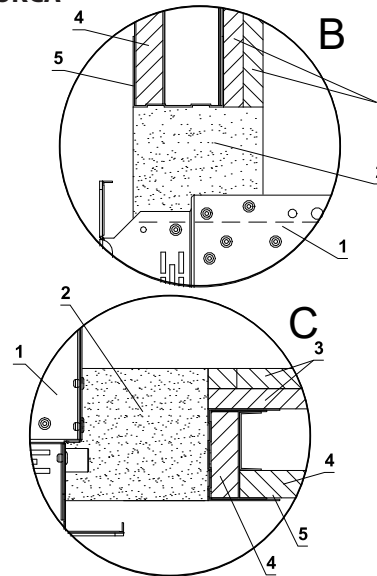
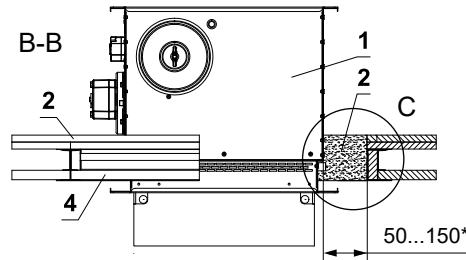
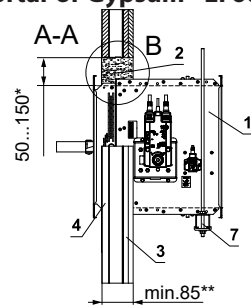
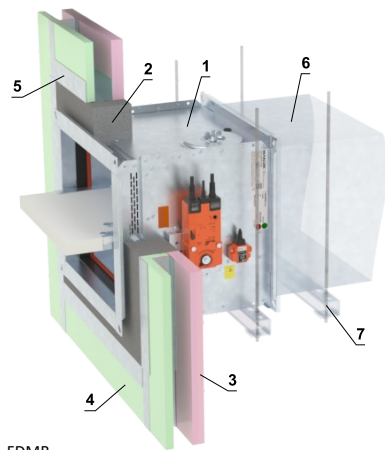


FDMB - Shaft Wall Construction - Mortar or Gypsum - EI 60 (V_e) S [V/H] /EI 90 (V_e) S [V/H] - UKCA



- 1 FDMB
- 2 British gypsum thistle bond 60 (or equivalent can be used)
minimum density 670 kg/m³
- 3 Plasterboard EN 520 - Type F min. 2x12,5 mm**
- 4 Plasterboard EN 520 - Type F min. 1x19 mm**
- 5 Plasterboard profile
- 6 Duct
- 7 Fixing profile with threaded rod

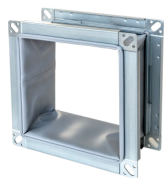
*In the case of fire resistance EI 90, the installation gap is limited to 90 mm +0/-10. For fire resistance EI 60 or lower, an installation gap range of 40–130 mm is permitted.

** For fire resistance of the shaftwall EIS 60

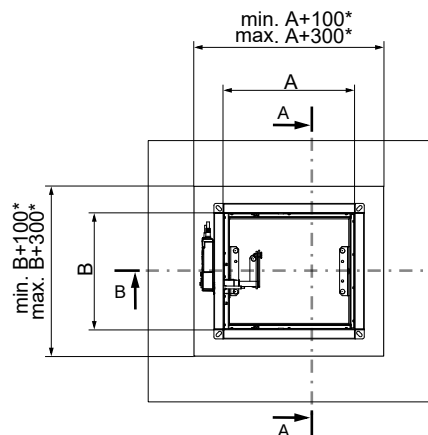
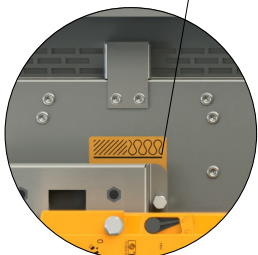
Damper must be installed to the built in edge shown by orange label on the damper.

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

FFDM or alternative breakaway joint must be used either side of the damper. See product TPM for full duct connection details.



Built in edge



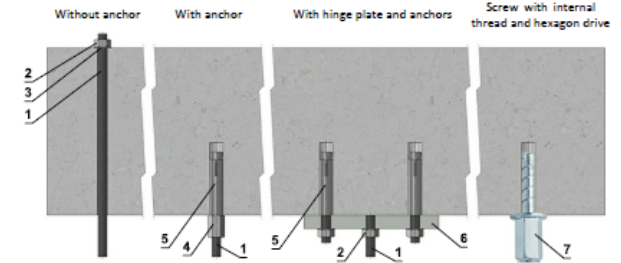
Drop rod and hanger position is not critical and can be positioned to suit the particular installation, applying symmetry where possible.

Position:

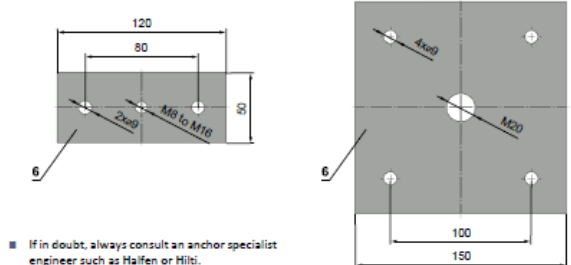
- 1 FDMB
- 2 Threaded rod M8 - M20
- 3 Support HILTI (MQ-41 = <100kg) or (MQ-41/3 = >100kg)
- 4 Bored plate HILTI MQZ-L
- 5 Washer for M8 - M20
- 6 Nut M8 - M20

Advice provided by a fixing specialist contractor takes precedence.

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 [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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Office: 0117 4526376

Title: **FDMB - Shaft wall - Mortar/Gypsum**

UKCA certified acc. to EN 15650

Classification: **EI 60 (V_e) S [V/H] with EI 60 wall
EI 90 (V_e) S [V/H] with EI 90 wall**

Tested in accordance with EN 1366-2

Drawing No: **0000-0000- 141 Rev 1**

Size: (min-max) **100x100 - 1000x500**

Date: **25/08/2026**

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

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