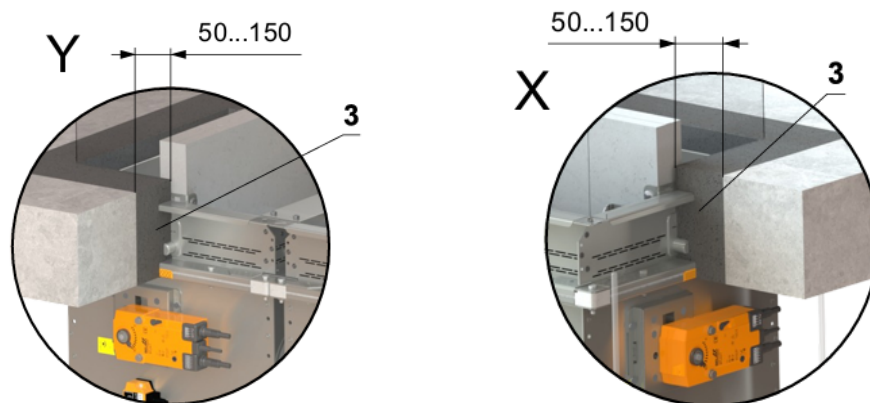
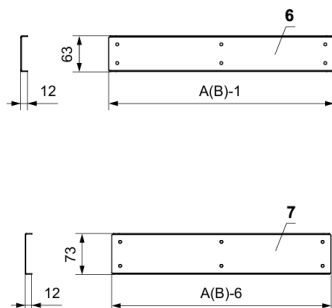
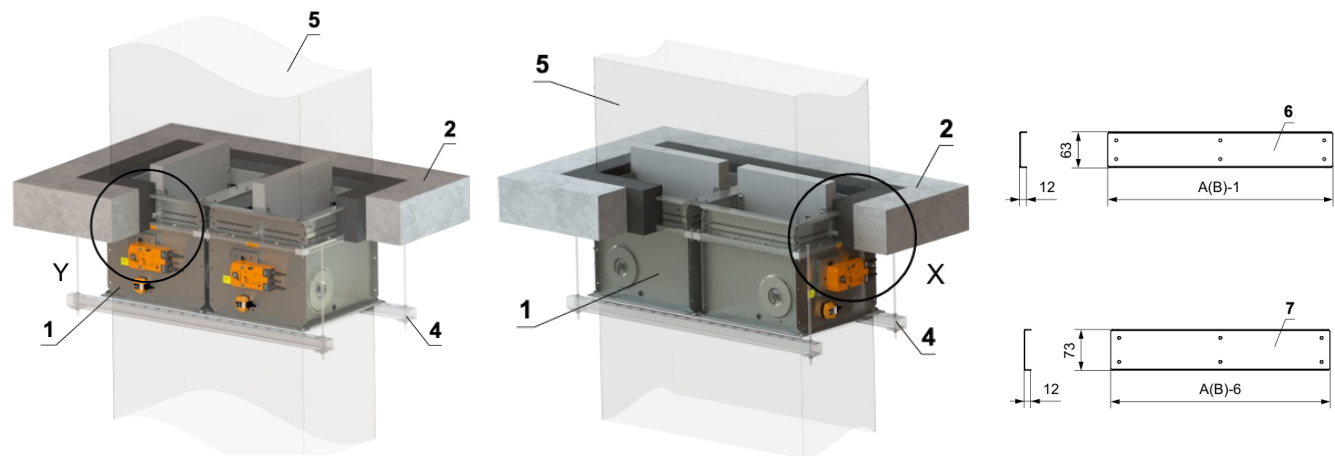
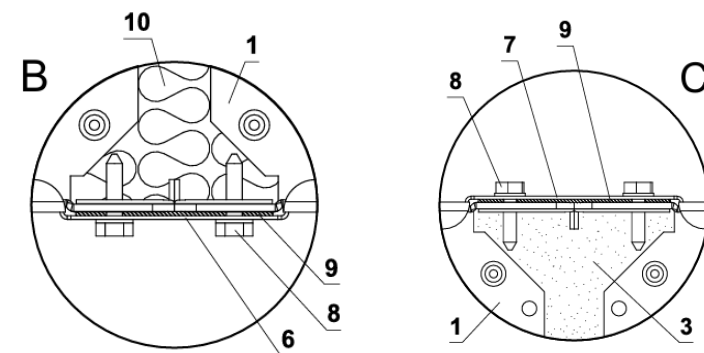
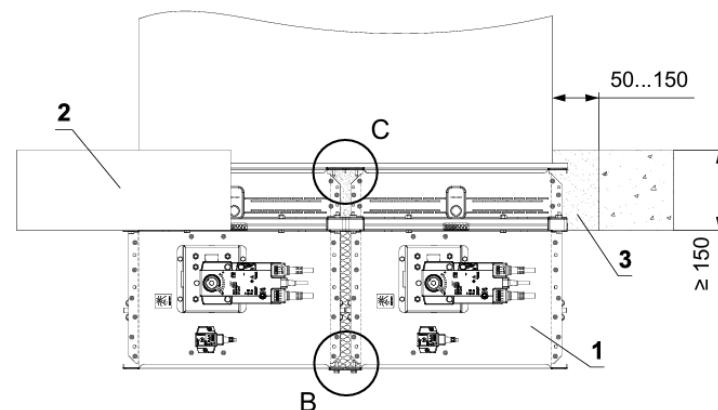




- 1 FDMQ 120
- 2 Solid ceiling construction
- 3 British gypsum thistle bond 60 (or equivalent can be used) minimum density 670 kg/m³
- 4 Fixing profile with threaded rod
- 5 Duct
- 6 U-profile type 3
- 7 U-profile type 1
- 8 Screw TEK 4,8x18 mm (span ≤ 200 mm)
- 9 Seal
- 10 Insulation board made of stone wool, min. density 66 kg/m³ (e.g. ISOVER Ultimate Protect SLAB 4), th. 60 mm



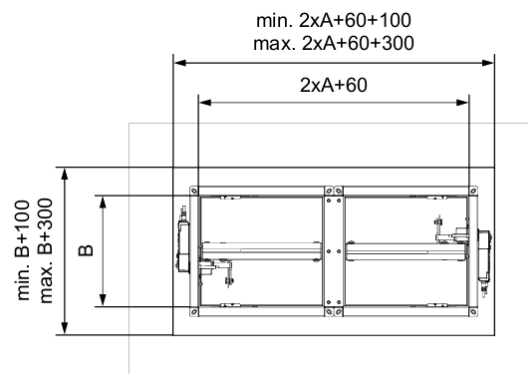
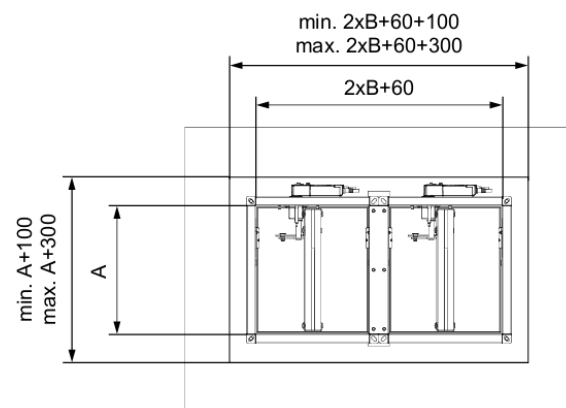
Gap between damper and construction is filled by mortar or gypsum

Distance between dampers 60mm

Flange connection - up to 4 dampers can be installed

The damper can be installed from both sides of the construction, i.e. from the top or the bottom side of the ceiling.

This installation was tested without supports. Supports are optional, if are used, follow the manufacturer's instructions and national standards.



MANDIK®

Mandik UK Ltd
www.mandik.co.uk
Office: 0117 4526376
2440 The Quadrant
Aztec West
Bristol
BS32 4AQ

Title: **FDMQ120 - Battery Solid Ceiling - Mortar/Gypsum**

UKCA certified acc. to EN 15650

Classification:

Tested in accordance with EN 1366-2

EI 120 (h_o) S [H]

Size: (min-max) 150x150 - 1500x800

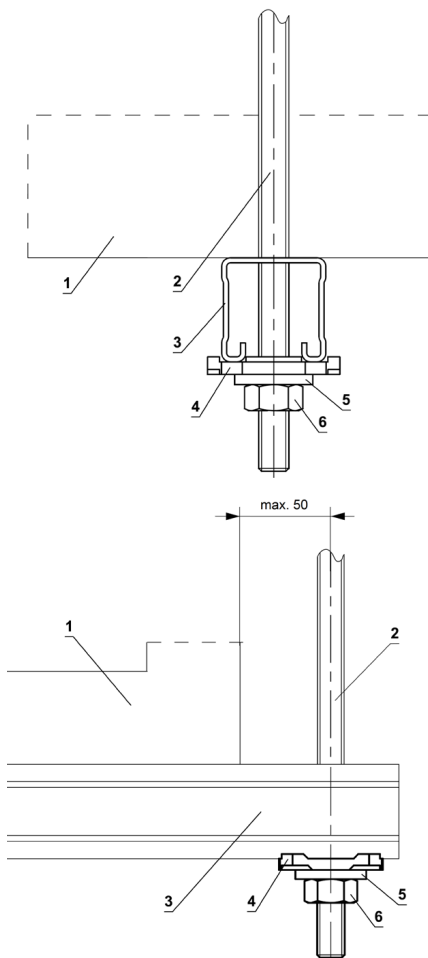
Drawing No:

Date: **25/08/2026**

0000-0000-231 Rev 1

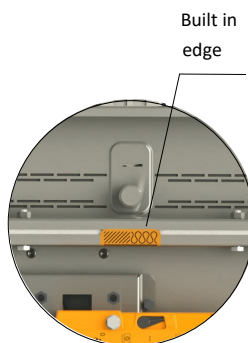
Illustrated: **AA** Approved: **MF**

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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:

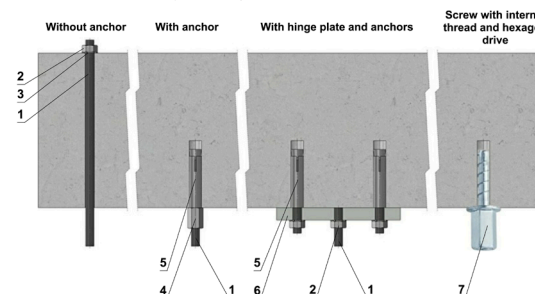
- 1 FDMQ
- 2 Threaded rod M8 - M20
- 3 Support HILTI (MQ-41 = <100kg) or (MQ-41/3 = >100kg)
- 4 Bored plate HILTI MQZ-L
- 5 Washer for M8 - M20
- 6 Nut M8 - M20

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

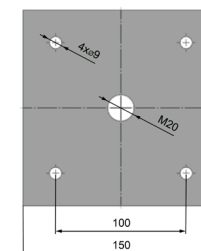
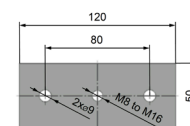


FFDM or alternative breakaway joint must be used either side of the damper. See Product TPM for full duct connection details.

Advice provided by a fixing specialist contractor takes precedence.



Hinge plates



Screw with internal



Irive

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

Size	A _s [mm ²]	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 technical@Mandik.co.uk. Mandik reserves the right to update this information without prior notice.

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Classification:

Tested in accordance with EN 1366-2

EI 120 (h_o) S [H]

Size: (min-max) 150x150 - 1500x800

Drawing No:

Date: 15/05/2026

0000-0000-231 Rev 1

Illustrated: AA Approved: MF

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