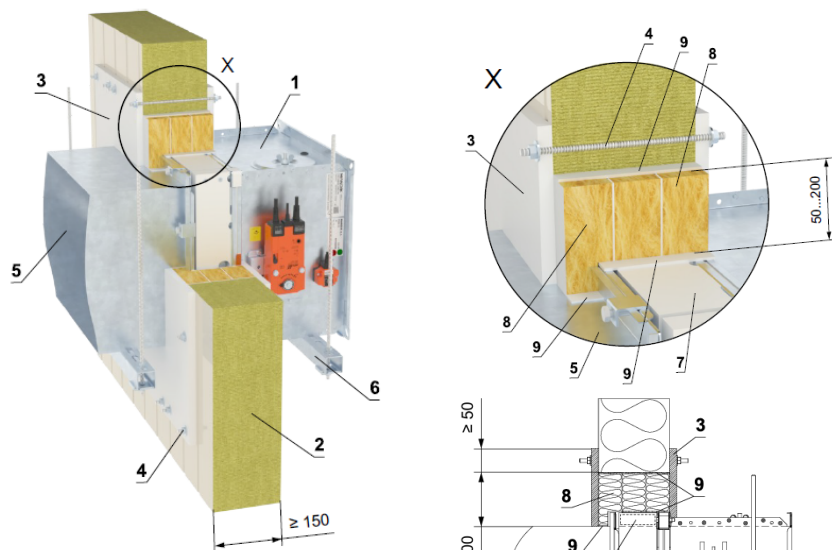


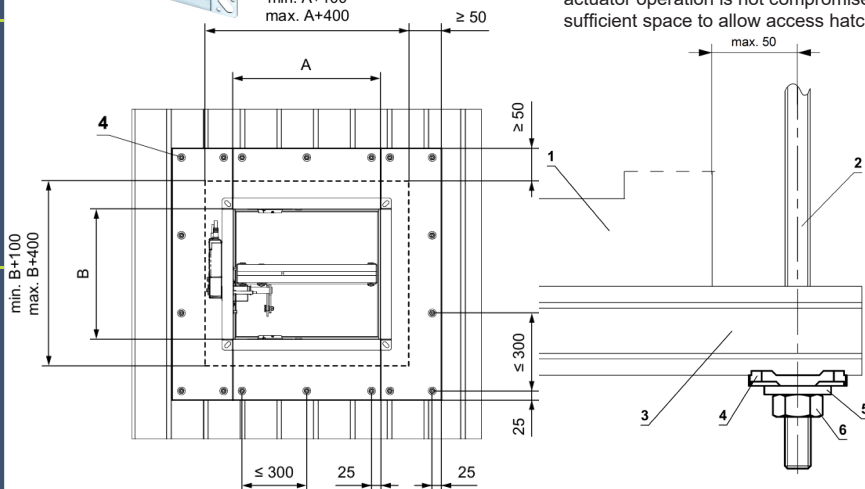
FDMQ 120 - Sandwich Wall Construction - Ablative Coated Batt - EI 120 (V_e) S [H] - UKCA



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

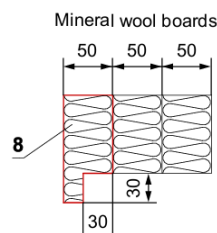


min. A+100
max. A+400

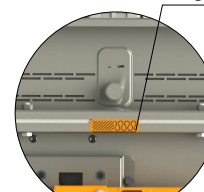


Drop rod and hanger location, please ensure that actuator operation is not compromised and ensure sufficient space to allow access hatch removal.

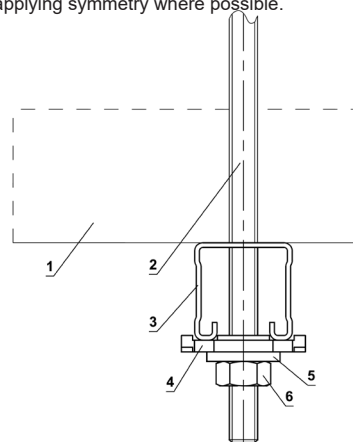
- 1 FDMQ 120
- 2 Sandwich wall construction - min. th. 150 mm (Euroclad Firemaster Extra)
- 3 Fire-resistant board - min. th. 15 mm, min. density 870 kg/m³ (e.g. PROMATECT-H)
- 4 Fixing connection of boards - threaded rod M8 (length of the threaded rod for 150 mm sandwich construction is min. 220 mm, 2 pcs large washer M8, 2 pcs nut M8). The boards must be tightly fixed to the sandwich wall construction!
- 5 Duct
- 6 Fixing profile with threaded rod
- 7 Protective cladding boards - (not part of the damper) but must be used as part of the penetration filling
- 8 Ablative Coated Batt (e.g. Firestop Board HILTI CFS-CT B 1S 140/50 - min. density 140 kg/m³)
- 9 Fire-resistant mastic - (HILTI CFS-S ACR...) fill the gap from both sides of the fire separation construction and around the perimeter of penetration and damper casing



Built in edge

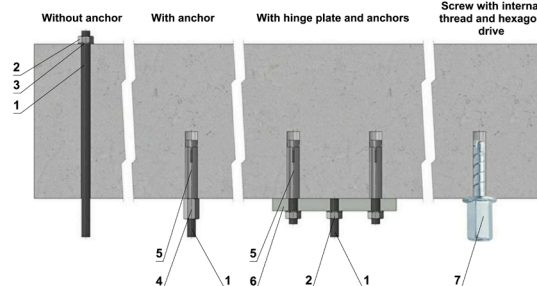


Drop rod and hanger position is not critical and can be positioned to suit the particular installation, applying symmetry where possible.

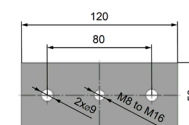


- Position:
- 1 FDMQ 120
 - 2 Threaded rod M8 - M20
 - 3 Support HILTI (MQ-41 = <100kg) or (MQ-41/3 = >100kg)
 - 4 Bored plate HILTI MQZ-L
 - 5 Washer for M8 - M20
 - 6 Nut M8 - M20

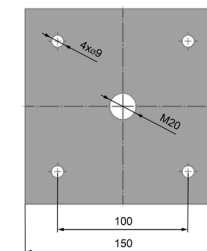
Advice provided by a fixing specialist contractor takes precedence.



Hinge plates



Screw with internal thread and hexagon drive



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.

MANDIK®

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

Title: **FDMQ 120 - Sandwich wall - Ablative Coated Batt**

UKCA certified acc. to EN 15650

Classification:

EI 120 (V_e) S [H]

Tested in accordance with EN 1366-2

Drawing No:

0000-0000-280 Rev 1

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

Date: **25/08/2026**

Illustrated: **AA**

Approved: **MF**

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