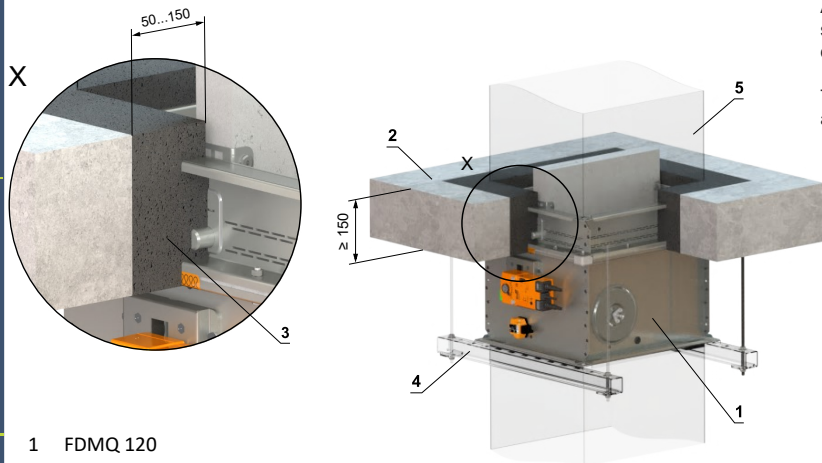


# FDMQ 120 - Solid Ceiling Construction - Mortar or Gypsum - EI 120 (h<sub>o</sub>) S [H] - UKCA



- 1 FDMQ 120
- 2 Solid ceiling construction
- 3 British gypsum thistle bond 60 (or equivalent can by used) minimum density 670 kg/m<sup>3</sup>
- 4 Fixing profile with threaded rod
- 5 Duct

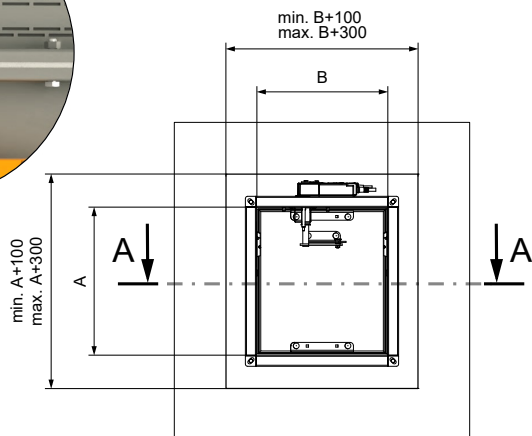
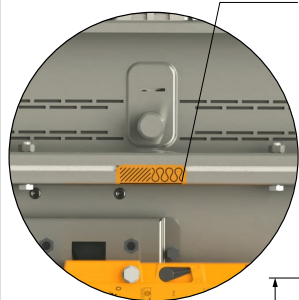
Damper must be installed to the built in edge shown by orange label on the damper.

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.

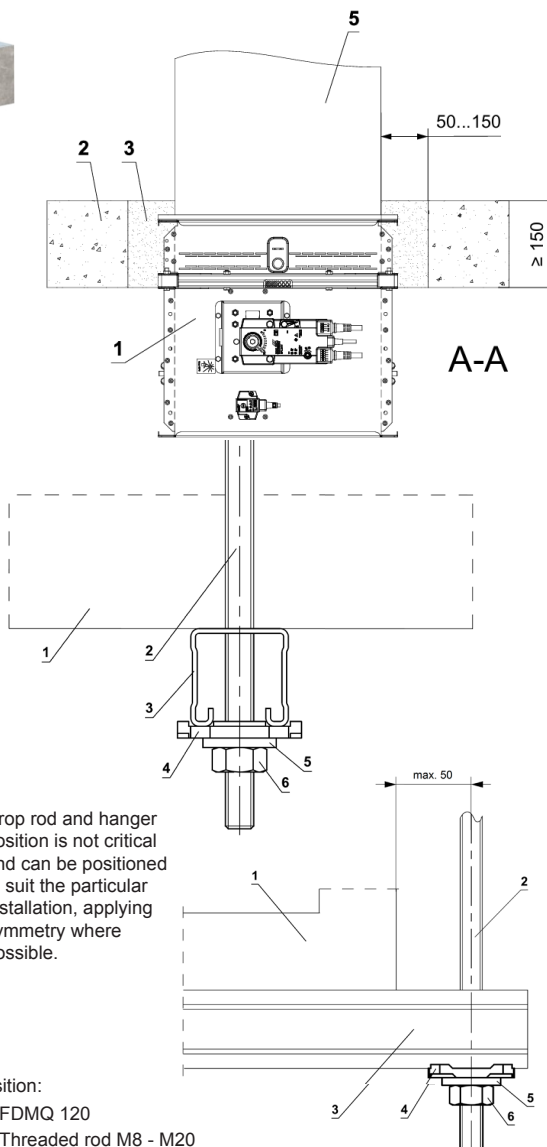


Built in edge



Actuating mechanism can be installed above or below slab. Exact damper supporting method to be designed to suit each individual application by the ductwork specialist contractor.

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

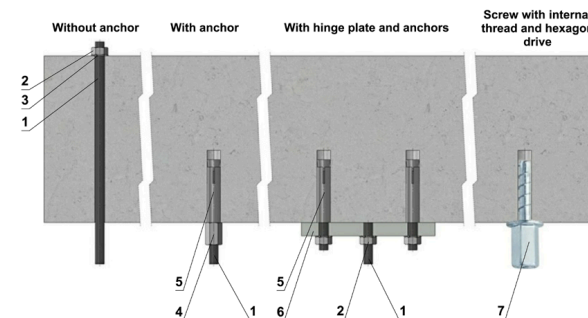


Drop rod and hanger position is not critical and can be positioned to suit the particular installation, applying symmetry where possible.

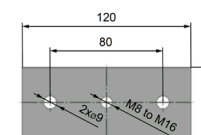
Position:

- 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

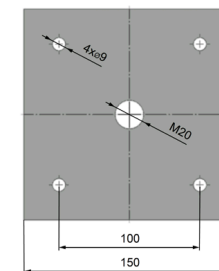
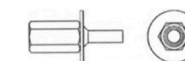
Advice provided by a fixing specialist contractor takes precedence.



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 <sub>s</sub> [mm <sup>2</sup> ] | 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 [help@Mandik.co.uk](mailto:help@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

Title: **FDMQ 120 - Slab - Mortar/Gypsum**

UKCA certified acc. to EN 15650

Classification: **EI 120 (h<sub>o</sub>) S [H]**

Tested in accordance with EN 1366-2

Drawing No: **0000-0000-230 Rev 3**

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

Date: **25/08/2026**

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

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