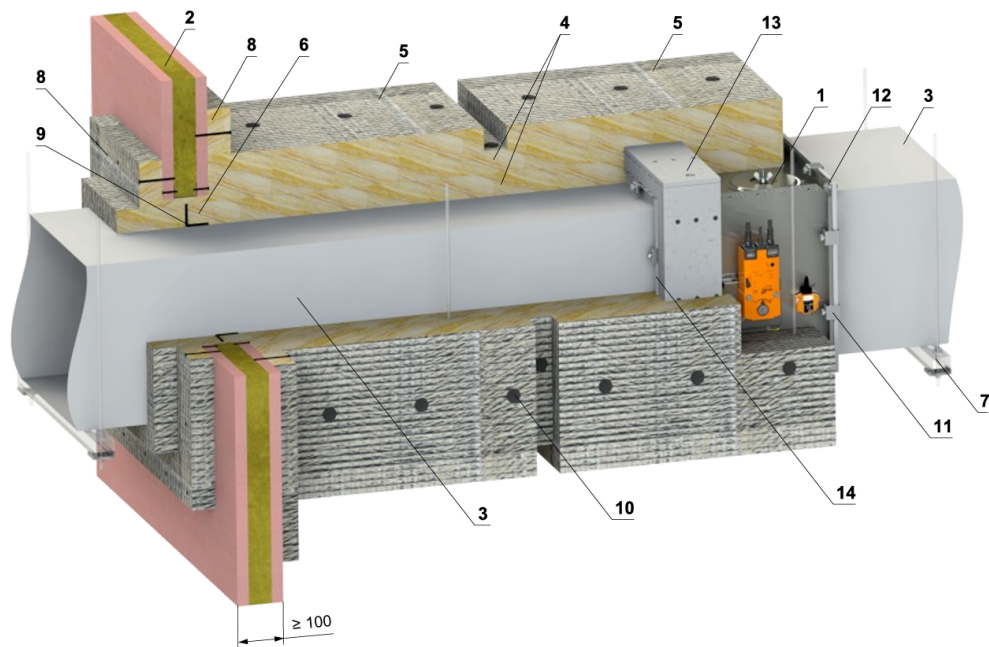
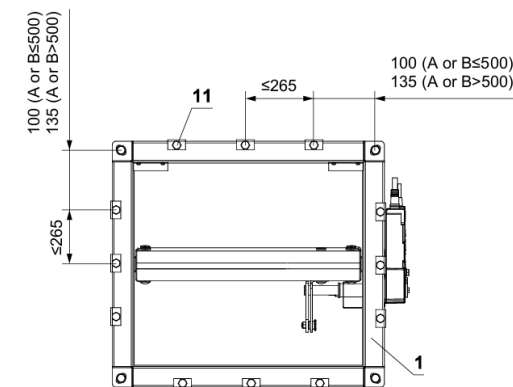
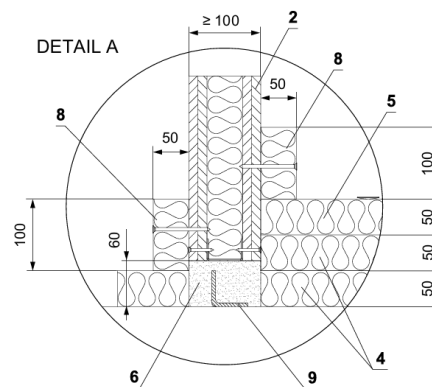
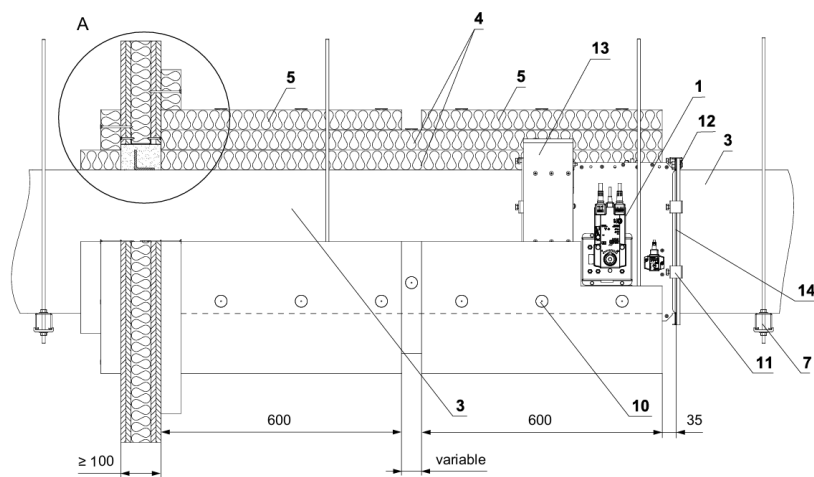


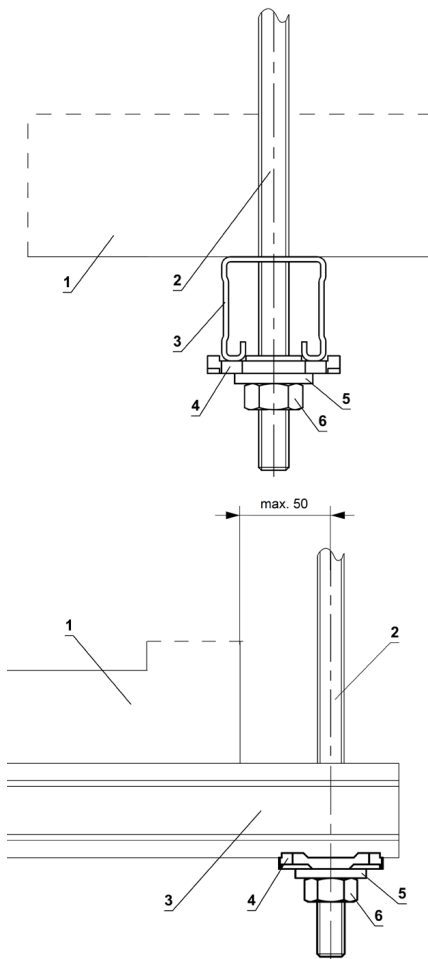


- 1 FDMQ 120
- 2 Gypsum wall construction
- 3 Flamebar EN fire Duct - made of galvanised sheet metal, thickness is dependant on duct size, type BW18 fire sprayed with Flamebar BW18 (insulated duct), type BW11 fire sprayed with Flamebar BW11 (not insulated duct)
- 4 Insulation - two layers of stone wool FPL 110 SLAB, thickness 2x 50 mm, density 105 kg/m³, the second layer of insulation is provided with aluminium foil on the outside (FPL 110 FOIL FACED SLAB) - visible edges of mineral wool are covered with self-adhesive aluminium tape
- 5 Insulation collar - additional insulation of the fire damper and gypsum wall construction - third layer of insulation FPL 110 FOIL FACED SLAB, thickness 50 mm and width 600 mm
- 6 Filling - FPL 110 mineral wool - fill the gap between the duct and the wall
- 7 Fixing profile with threaded rod
- 8 Penetration insulation pattress - FPL 110 FOIL FACED SLAB, thickness 50 mm - glued with Idenden 10-450 and fixed with screws to the wall construction
- 9 Reinforcement of the duct - steel L-profile 50x50x5 mm or flange to Flamebar spec. on all sides of the duct within 100 mm of the wall
- 10 Insulation pins - riveted to the duct - after the insulation boards are pushed over the insulation pins, secure the ends with disc plates in each insulation layer
- 11 Steel clamp - flange connection with Flamebar G-Clamps with M8 bolts, max. spacing 200 mm
- 12 Bolt assembly - flange connection at corners - M10 bolt and nut
- 13 VRM-Q 120
- 14 Sealing - all joints between duct segments are insulated with Flamebar Fibre Gasket self-adhesive tape and Flamebar Intumescent Sealant

- Minimum and maximum distance between the wall and the fire damper is unlimited.
- The fire damper and duct must be suspended separately.
- The duct must be suspended on both sides of the fire damper in accordance with national standards.
- The duct between the fire damper and the fire separating construction must be suspended using threaded rods and mounting profiles or another suspension system in accordance with national standards.
- Fire damper inspection holes are covered with insulation, therefore it's necessary to install an access door in the connecting duct. (This must be a Flamebar access door if installed in the fire duct.)
- Load on suspension system depends on weight of the fire damper and duct system
- Max. length between two suspension systems is 1500 mm.
- Installation must be done in such a way that all load transfer from the fire separating construction to the damper is completely eliminated.
- Reinforcing frame VRM-Q 120 must always be used for this type of installation. VRM-Q 120 is not part of the fire damper and must be ordered separately for each installation!
- The installation opening is lined with a UW/CW profile.

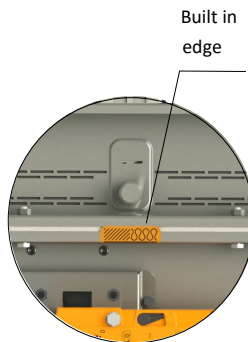


MANDIK®		Mandik UK Ltd www.mandik.co.uk Office: 0117 4526376		2440 The Quadrant Aztec West Bristol BS32 4AQ	
Title: FDMQ 120 - Remote from Gypsum wall - Flamebar EN Fire Duct		UKCA certified acc. to EN 15650			
Classification: EI 120 (V_e) S [H]		Tested in accordance with EN 1366-2			
Drawing No: 0000-0000-253 Rev 1		Size: (min-max) 150x150 - 1500x800	Date: 25/08/2026		
		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:

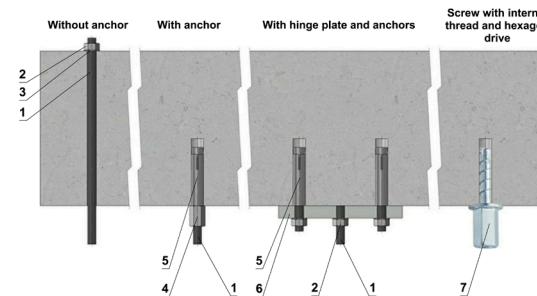
- 1 FDMQ 120
- 2 Threaded rod M8 - M20
- 3 Support HILTI (MQ-41 = <100kg) or (MQ-41/3 = >100kg)
- 4 Bored plate HILTI MQZ-L
- 5 Washer for M8 - M20
- 6 Nut M8 - M20

Wall build construction must be symmetrical and in accordance with BS EN 1363-1 and tested in accordance with BS EN 1364-1.

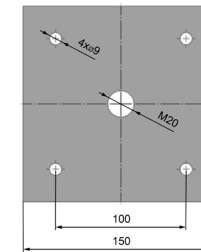
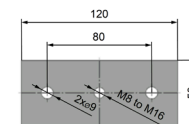
Blade overlaps must be accounted for to ensure blade operation is not compromised. For full blade overlap dimensions please see product TPM.

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

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.

MANDIK®

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Aztec West Bristol
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Classification: **EI 120 (V_e) S [H]**

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Drawing No: **0000-0000-253 Rev 1**

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

Date: **25/08/2026**

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