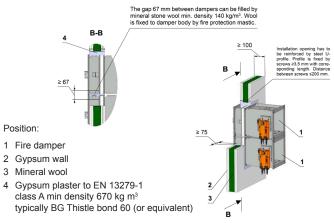
## FDMQ Battery El 90 S (Lightweight wall - Gypsum fire stop)

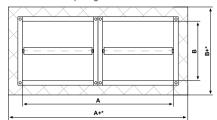


## Notice:

- Installation opening for each damper has minimal dimensions a x b = (A+100) x (2xB+100)mm or (2xA+100) X (B+100)mm
- Gap between damper and construction is filled by mortar or gypsum
- Distance between dampers 60mm
- Flange to flange connection up to 4 dampers can be installed

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

## Builders work opening

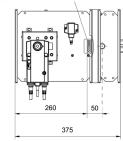


A (B) x no. of dampers

- + 30mm for each flange
- + 70mm min opening
- + 150mm max opening

For example: 200mm x 2 dampers

- + 30mm x 2 flanges
- = 460mm
- + 70mm min BWO = 530mm
- + 150mm max BWO = 610mm

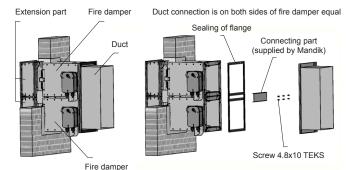


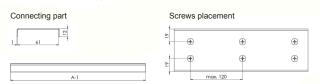
Built in edge

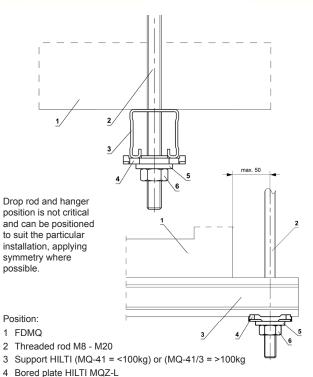
Vertical battery's require equal width, horizontal requires equal height

Built in edge signifies depth of damper insertion into wall

U shaped channel mounted front and rear to create a single unit.



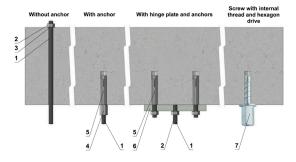




5 Washer for M8 - M20

6 Nut M8 - M20

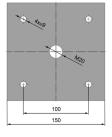
Advice provided by a fixing specialist contractor takes precedence.



120 80 30 30 80

Screw with internal thread and hexagon drive





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

52

70

96

117

150

[mm<sup>2</sup>]

192

M8 36,6

M12 84,3

M10 58

M16 157

M18

M14 115

M20 245

Weight G [kg]

for 1 piece for 1 pair

44

70

104

140

192

234

## 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. Mandik reserves the right to update this information without prior notice.

MVNJ(K <sub>®</sub>	Mandik UK Ltd www.mandik.co.uk Office: 0117 4526376	Redwood House Brotherswood Court Great Park Road Almondsbury Bristol BS32 4QW
Title: FDMQ Battery - Lightweight wall/ Gypsum  Classification: El 90 (ve i<->o) S	CE certified acc. to EN 15650	
	Tested in accordance with EN 1366-2	
	Size: (min-max) 150x150 - 1500x800	
Drawing No: 0000-0000-029 Rev 2	Date: 11/10/21	
	Illustrated: GP	Approved: MF
	-	

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