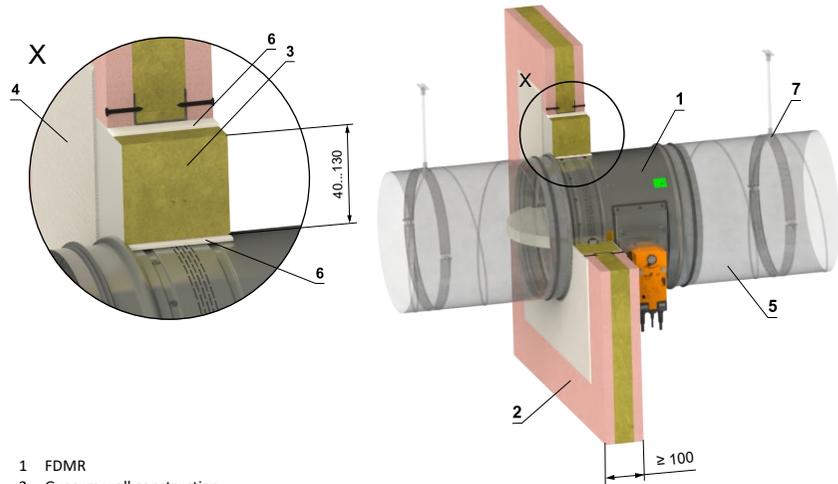


# FDMR (Lightweight Wall - Firebatt) EI 90 S - UKCA



- 1 FDMR
- 2 Gypsum wall construction
- 3 Ablative Coated Batt (e.g. Firestop Board HILTI CFS-CT B 1S 140/50 - min. density 140 kg/m<sup>3</sup> + Firestop acrylic sealant HILTI CFS-S ACR or equivalent)
- 4 Fire stop coating thickness 1 mm (e.g. HILTI CFS-CT, PROMASTOP-CC or equivalent)
- 5 Duct
- 6 Fire resistant mastic - fill the gap on both sides of the fire separation construction and around the perimeter of penetration and damper body. (e.g. HILTI CFS-S ACR)
- 7 Damper bracket
- 8 Circular suspension with threaded rod

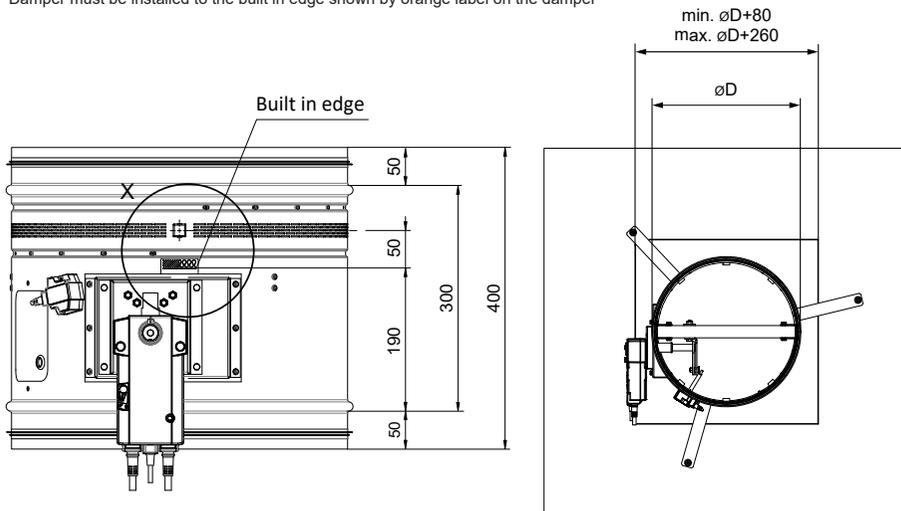
FDMD breakaway joint should be used either side of the damper.

FDMR can be installed with blade axis positioned either vertically or horizontally and with the actuator positioned at 0°, 90° or 270°, but not at 180°.

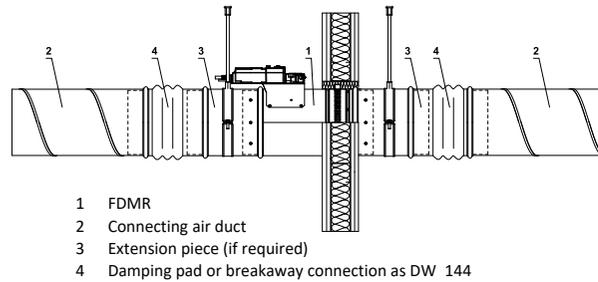
Wall build construction must be symmetrical and in accordance with BS EN 1363-1 and tested in accordance with BS EN 1364-1.

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

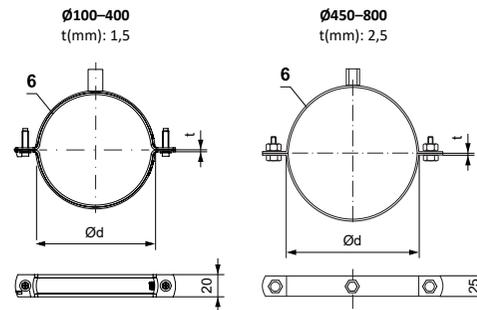
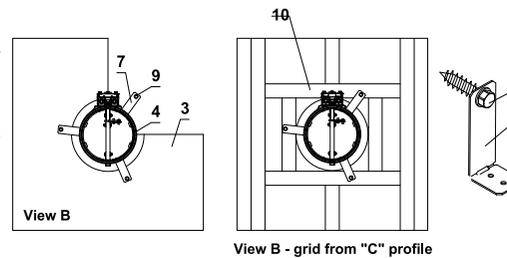


## Duct Connection



- 1 FDMR
- 2 Connecting air duct
- 3 Extension piece (if required)
- 4 Damping pad or breakaway connection as DW 144

## Placing of mounting brackets In gypsum wall construction

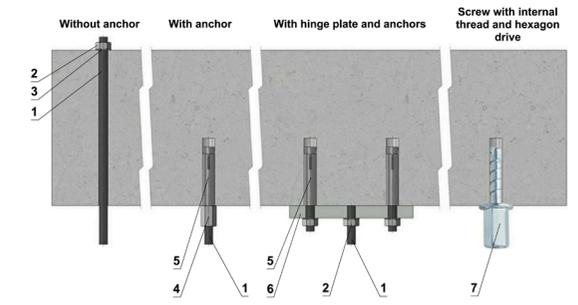


**Ø100-400**  
With slotted quick closure.  
With screw M6x20 and head: hex 1/4" and PH2.  
Connection nut M8+M10.

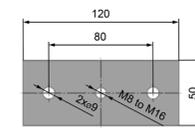
**Ø450-800**  
With Ø 10 hole.  
With bolt and nut H17 M10x30.  
Connection nut M8+M10.

- 3 Gypsum wall construction
- 4 FDMR
- 6 Circular suspension with threaded rod
- 7 Damper bracket
- 8 M8 anchor with nut
- 9 Screw with hexagon head M8x45 mm
- 10 Gypsum grid from "C" profile

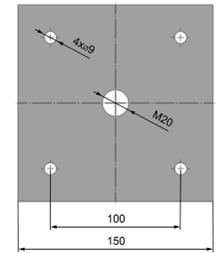
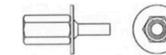
Advice provided by a fixing specialist contractor takes precedence.



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

		Mandik UK Ltd www.mandik.co.uk Office: 0117 4526376	130 Aztec West Park Avenue Bristol BS32 4UB
		Title: <b>FDMR - Lightweight wall - Firebatt</b> UKCA certified acc. to EN 15650	
Classification: <b>EI 90 (ve i-&gt;o) S</b>		Tested in accordance with EN 1366-2	
Drawing No: <b>0000-0000-321 Rev 3</b>		Size: (min-max) <b>100Ø-800Ø</b>	Date: <b>20/06/2023</b>
		Illustrated: <b>AA</b>	Approved: <b>MF</b>
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