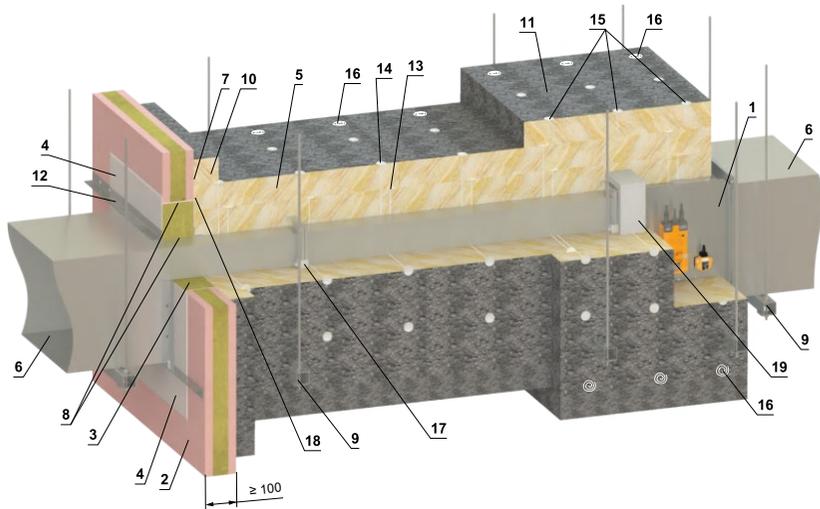
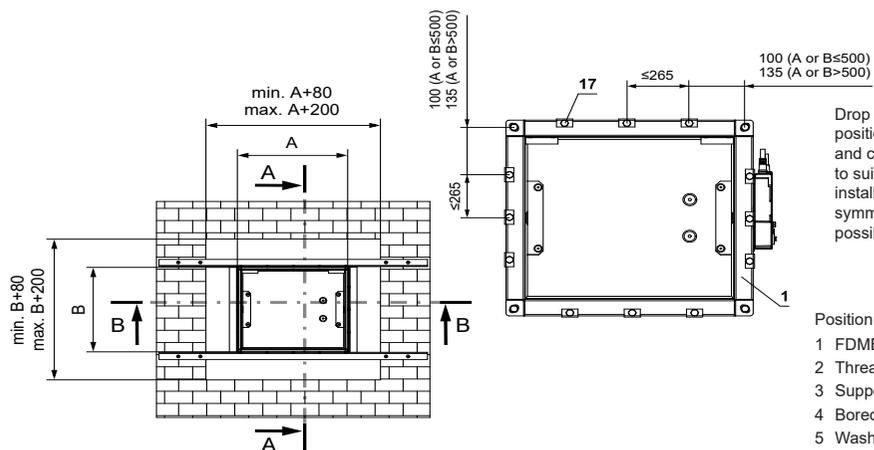


FDMB EI 90 S (Remote from solid wall construction) - For full installation requirements see product TPM

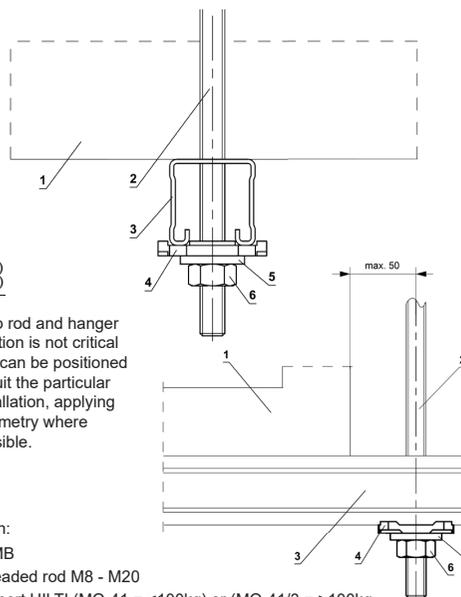


- Minimum and maximum distance between the wall and fire damper when installation remote from the wall is unlimited.
- When installing the insulation, follow the ISOVER manufacturer's instructions.
- The dampers and duct must be suspended separately.
- The duct must be suspended on both sides of damper after national rules.
- Duct between fire damper and fire separating construction must be suspended by using threaded rods and mounting profiles, or another anchoring system according national standards.
- The dampers inspection holes are covered by insulation and therefore it's necessary to make an inspection hole on the connecting duct.
- Load the suspension system depend on weight of the fire damper and duct system
- Max. length between two suspension systems is 1500 mm.
- Damper assembly procedures must be done so as all load transfer from the fire separating constructions to the damper body is absolutely excluded.
- If the threaded rod is located inside the duct insulation, distance between threaded rod and duct is max 30 mm.
- If the threaded rod is located outside the duct isolation, distance between threaded rod and isolation is max. 40 mm.
- The insulation boards are fastened to the duct.
- Reinforcing frame VRM2-B must be used for this kind of installation always. VRM2-B is not a part of the Fire damper and must be ordered separately for each installation case!



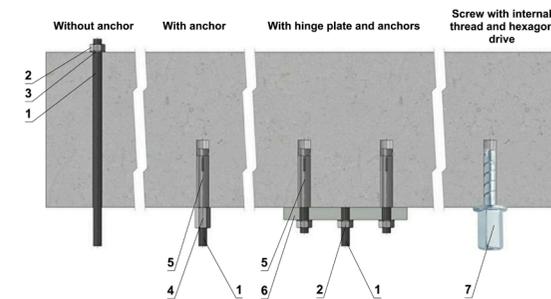
Drop rod and hanger position is not critical and can be positioned to suit the particular installation, applying symmetry where possible.

- Position:
- FDMB
 - Threaded rod M8 - M20
 - Support HILTI (MQ-41 = <100kg) or (MQ-41/3 = >100kg)
 - Bored plate HILTI MQZ-L
 - Washer for M8 - M20
 - Nut M8 - M20

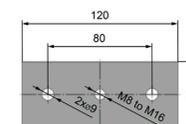


- FDMB
- Gypsum wall construction
- Ablative Coated Batt (e.g. Firestop Board HILTI CFS-CT B 1S 140/50 - min. density 140 kg/m³ + Firestop acrylic sealant HILTI CFS-S ACR or equivalent)
- Fire stop coating thickness 1 mm (e.g. HILTI CFS-CT, PROMASTOP-CC or equivalent)
- Insulation board made of stone wool, with a surface treatment of aluminum foil, min. density 66 kg/m³ (ISOVER Ultimate Protect SLAB 4.0 Alu1, th. 60 mm)
- Standard air ducts, made of galvanized sheet thickness 0,8 mm, flanges 30 mm, acc. to EN 1507 and DIN 24190
- ISOVER Protect BSK glue - apply on the insulation and stick it to the fire separation construction
- 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)
- Fixing profile with threaded rod
- Duct penetration insulation collar - ISOVER Ultimate Protect SLAB 4.0 Alu1, th. 60 mm - glued (pos. 7) and fixed with screws to the wall construction
- Insulating collar of the damper and duct connection - ISOVER Ultimate Protect SLAB 4.0 Alu1, th. 60 mm
- L-profile 30x30x3 mm - dimensions and installation acc. to ISOVER manufacturer
- Stud-welded pins 60 mm - quantity and placing acc. to ISOVER manufa.
- Stud-welded pins 120 mm - quantity and placing acc. to ISOVER manufa.
- Stud-welded pins 180 mm - quantity and placing acc. to ISOVER manufa.
- Fire spiral shaped screws - quantity and placing acc. to ISOVER manufa.
- Steel clamp min. M8 bolts
- ISOVER Protect BSF
- VRM2-B

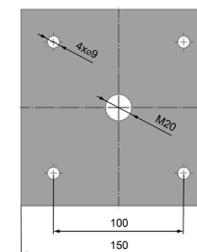
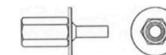
Advice provided by a fixing specialist contractor takes precedence.



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]	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:

- Threaded rod M8 - M20
- Nut
- Washer
- Coupling nut
- Anchor
- Hinge plate - min. thickness 10mm
- 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	Redwood House Brotherswood Court Great Park Road Almondsbury Bristol BS32 4QW
		UKCA certified acc. to EN 15650	
Title: FDMB - Remote solid wall		Tested in accordance with EN 1366-2	
Classification: EI 90 (ve i<->o) S		Size: (min-max) 100x100 - 1000x500 up to 0.5m ²	
Drawing No: 0000-0000-151 Rev 1		Date: 21/06/2023	
		Illustrated: AA	Approved: MF
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