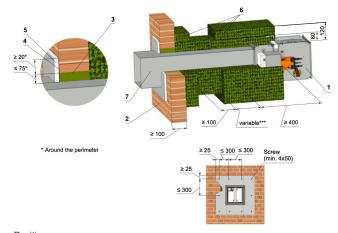
FDMA EI 90 S (Remote solid wall construction)



Position:

Screws has to be fixed in wall/ceiling construction. (If it is needed use steel bracket)

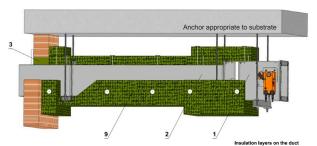
- 1 Fire damper
- 2 Solid wall construction
- 3 Mineral stone wool min. density 140 kg/m³
- 4 Fire protection mastic min. thickness 1mm
- 5 Cement lime plate min. thickness 15mm (min. density 870 kg/m³)
- 6 Stone wool bound with use of an organic resin with crushed stone as a refrigerant, min. density 300 kg/m3 and min. thickness 60 mm
- 7 Ductwork connected with breakaway joints

Used materials - example:

- 3 Promapyr. Rockwool Steprock HD. Hilti CFS-CT C 1S 140/50
- 4 Promastop P, K, Hilti CFS-CT
- 5 Promatect H
- 6 Rockwool Wired Mat 105 th, 60mm
- Stuffing box, fire protection mastic, cement lime plate and insulation materials can be replaced by another approved fire sealing system for damper installation with equivalent material properties.
- Depends on the distance of the flap from the construction, when the maximum distance from the construct is not limited and according to EN 15882-2 must use the required number of supports according to 1366-1:2014.

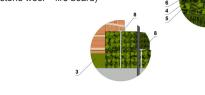
For builders work opening (BWO) please refer to ductwork manufacturers tested penetration detail.

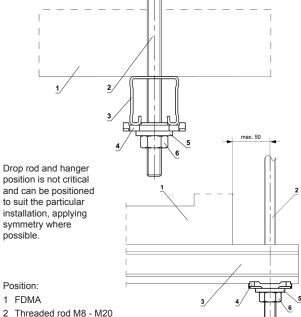
Insulation to be installed with manufacturers installation practices taking priority.



Position:

- 1 Fire damper
- 2 BS EN 1366-1 fire rated duct
- 3 Soft padding (stone wool + fire board)
- 4 Threaded rod
- 5 Mounting rail
- 6 Nut
- 7 Washer
- 8 Weld pin
- 9 Insulation

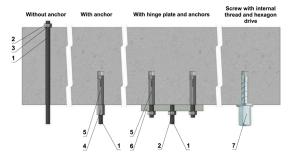


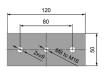


- 1 FDMA

- 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

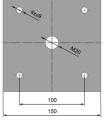
Advice provided by a fixing specialist contractor takes precedence.





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

[mm²]

157 M16

192

M8 36,6

M12 84,3

M18

M10 58

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.

