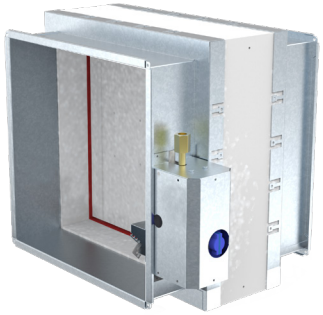
IRBB

Inert gas damper



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GENERAL

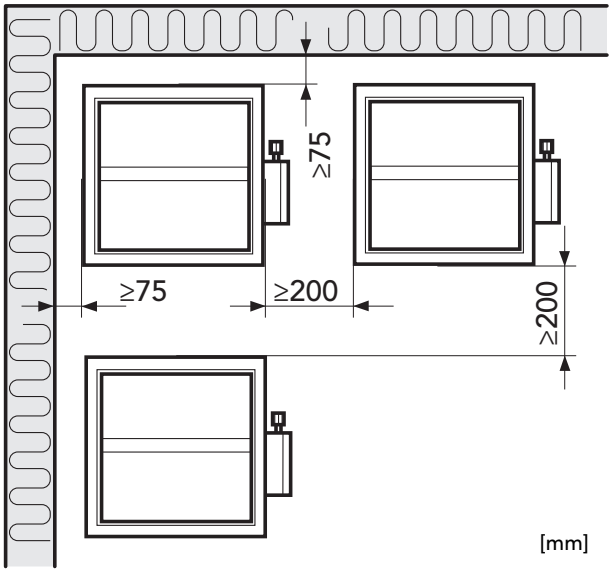
The dampers may be installed in walls separating fire cells with a maximum fire resistance class of EI 60 and EI 120. As the damper forms part of the fire prevention system, it is important that installation is carried out properly in accordance with the installation instructions.

The damper is installed with the damper shaft horizontally, upright or turned 180 degrees (upside down), depending on the installation method.

Dampers that are not connceted to ducts must be fitted with a safety grille or security grille.

For installation in exterior walls, dampers must be supplemented with weather protection equipment, such as exterior wall grilles, hoods, etc. The free area must always be taken into account.

HAGAB ensures that production of its IRBB Inert Gas Damper is carried out in accordance with Manufacturing Control/Type Approval SC0001-13 and its supporting documents.



The minimum distance between dampers must be 200 mm.
The minimum distance to the floor/ceiling/wall must be 75 mm.

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1. INSTALLATION IN WALL

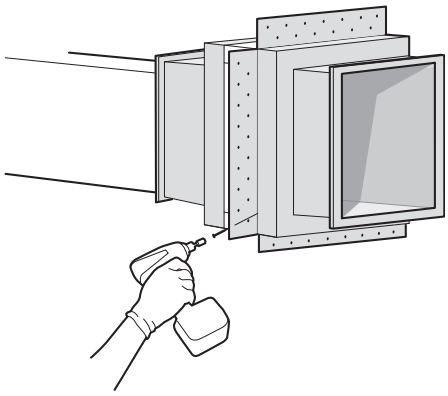
FIRE RESISTANCE CLASS EI 60 OR EI 120

THE WALL CAN BE LIGHTWEIGHT PARTITION, PLASTER-BOARD, CONCRETE OR BRICK WALL THAT MEETS THE FIRE RESISTANCE CLASS EI 60 OR EI 120.

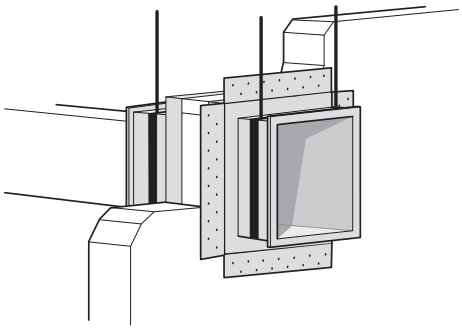
1. Hole cutting
The hole dimensions should be 130 mm larger than the damper's opening width and height.

2. Reinforcement
Walls made of sheet material are reinforced with a stud around the hole.

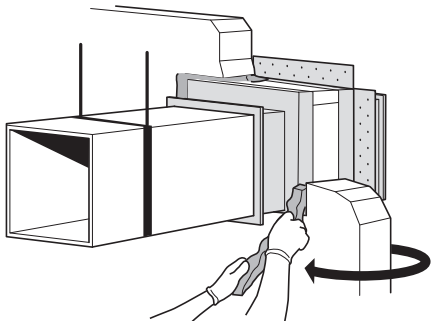
3. Centring in hole cutting
Centre the damper in the hole. The damper shaft should be in a horizontal position. The damper should be inside the wall with the damper blade in the middle of the building structure (the wall). Fasten the supplied mounting brackets around the damper with screws. The damper must be closed during installation.



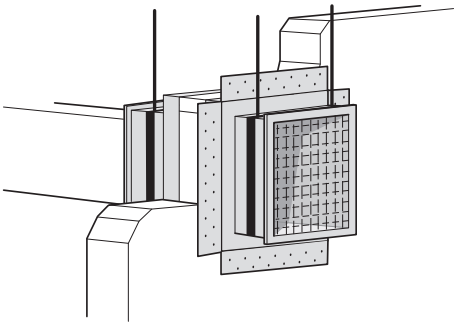
4. Load relief
If necessary, the weight of the damper can be supported against a fixed building structure. The load-bearing capacity of the mounting must comply with the fire-resistance class of the penetrated structural element.



5. Gap filling
The space between the structural element and the damper is insulated with non-combustible mineral wool.



6. Grille
Uncovered damper openings are fitted with a safety grille in galvanized steel.



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HAGAB®

2. MOUNTING AGAINST WALL

FIRE RESISTANCE CLASS EI 60 OR EI 120

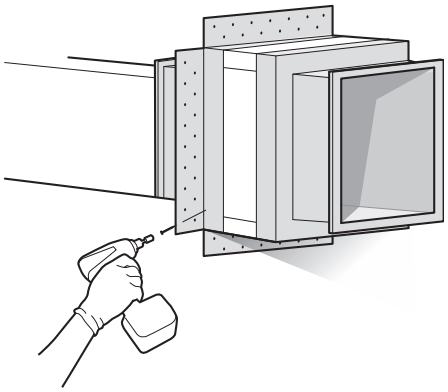
THE WALL CAN BE LIGHTWEIGHT PARTITION, PLASTER-BOARD, CONCRETE OR BRICK WALL THAT MEETS THE FIRE RESISTANCE CLASS EI 60 OR EI 120.

1. Hole cutting
The hole dimensions should be 60 mm larger than the damper's opening width and height.

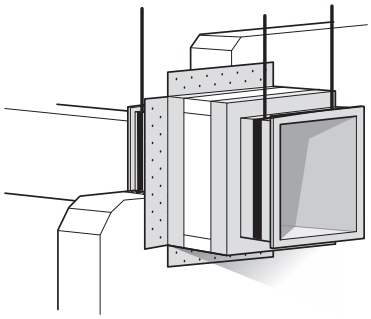
2. Reinforcement
Walls made of sheet material are reinforced with a stud around the hole.

3. Extension
For installation in walls thicker than 135 mm, a duct section can be assembled onto the damper to reach through the hole.

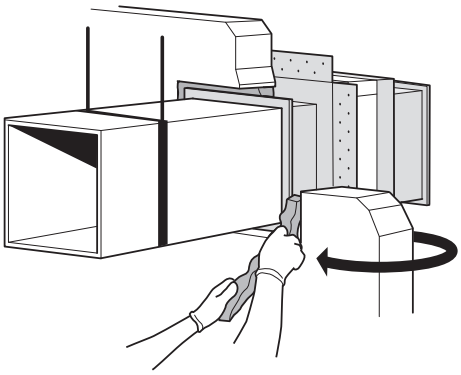
4. Centring in hole cutting
Centre the damper in the hole. The damper shaft should be in a horizontal position. The damper should be inside the wall with the damper blade in the middle of the building structure (the wall). Fasten the supplied mounting brackets around the damper with screws. The damper must be closed during installation.



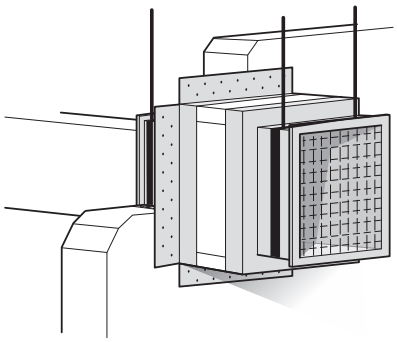
5. Load relief
If necessary, the weight of the damper can be supported against a fixed building structure. The load-bearing capacity of the mounting must comply with the fire-resistance class of the penetrated structural element.



6. Gap filling
The space between the structural element and the damper is insulated with non-combustible mineral wool.



7. Grille
Uncovered damper openings are fitted with a safety grille in galvanized steel.



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3. INSTALLATION ON DUCT

FIRE RESISTANCE CLASS EI 60 OR EI 120

THE WALL CAN BE LIGHTWEIGHT PARTITION, PLASTERBOARD, CONCRETE OR BRICK WALL THAT MEETS THE FIRE RESISTANCE CLASS EI 60 OR EI 120.

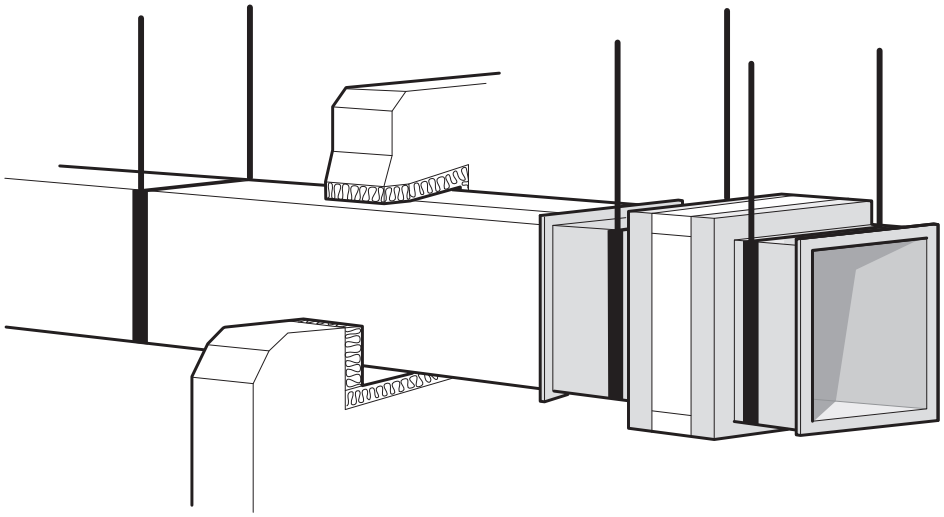
1. Duct installation

The duct is centred in the hole and then insulated with non-combustible mineral wool.

2. Assembly

Support the weight of the damper against a fixed building structure. The load-bearing capacity of the mounting must comply with the fire-resistance class of the penetrated structural element.

Install the damper in the duct with the damper shaft mounted horizontally, upright or upside down. The damper must be closed during installation.



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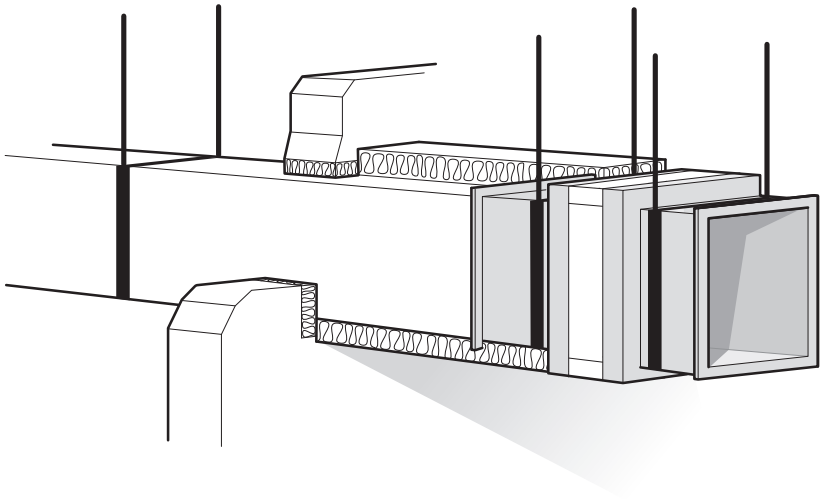
3. Insulation

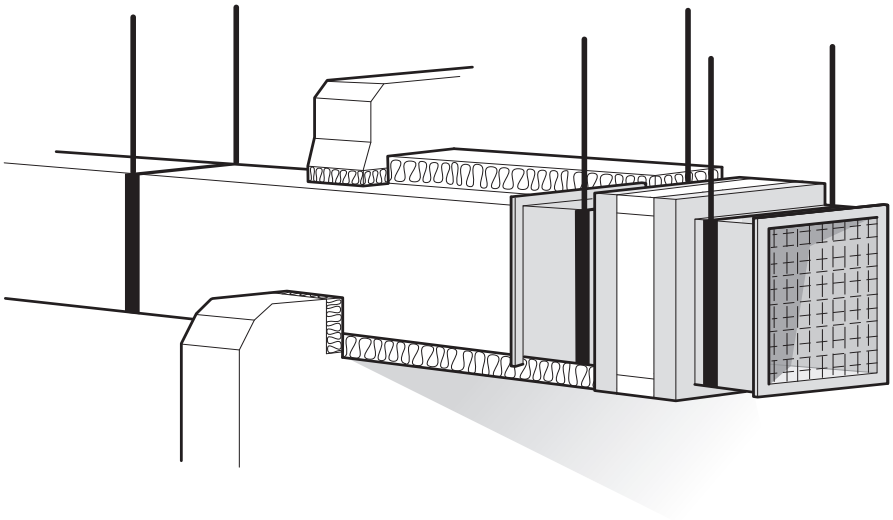
IRBB EI 60: Insulate the duct using Conlit® Fire Mat Comfort 80 mm.

IRBB EI 120: Insulate the duct using Conlit® Fire Mat Comfort 120 mm.



4. Cover grille

If the damper is not further connected to the duct system, it must be fitted with a cover grille on the unconnected side.



Hagab Industri AB | Industrivägen 5, 56241 Taberg | 036 -363090 | info@hagab.com | www.hagab.com