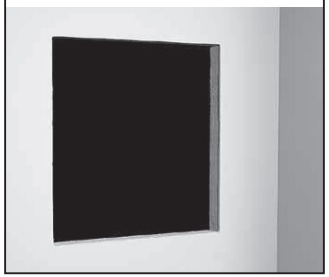
The FDS fire damper is installed on walls or ceilings between fire compartments penetrated by the air inlet.
The fire damper can be installed for concrete and masonry walls or ceilings/plates or on lightweight panel walls.
When the damper is installed on a wall, the blades can be oriented horizontally or vertically.
The fire-resistance class of the FDS damper is
E60 (ve, ho) S and/or E90 (ve).

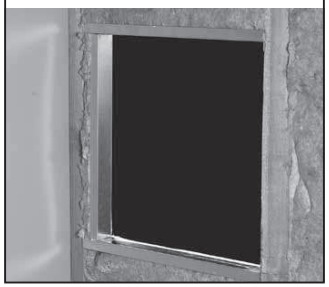
1

The size of the installation hole is the nominal size of the side of the product plus 60 mm:
(W+60) x (H+60).



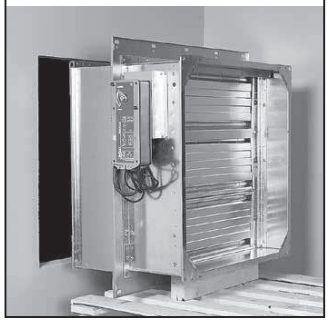
2

In installation of the fire damper on panel walls, a steel frame or a wooden joist must be mounted on the edges of the opening, supported against the wall joists.



3

The fire damper is centred in the installation hole.



4

Fix the fire damper on a lightweight wall with steel screws (e.g., 6.5 x 50) or on a concrete and masonry wall or plate with an expansion anchor – e.g., M8 x 50.

5

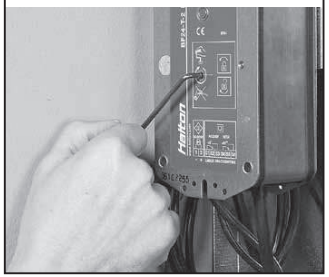
Check the diagonal dimension in addition to verifying the correct operation of the product.

6

The space between the wall and the fire damper is filled with non-combustible mineral wool with a density of min. 40 kg/m^3.

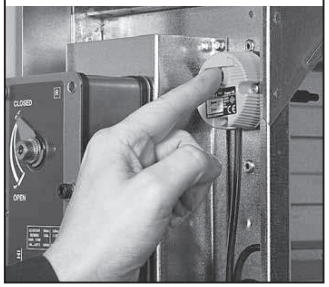
7

When the power is off, the electric actuator can be tested manually by means of a hexagonal spanner (included in the delivery).



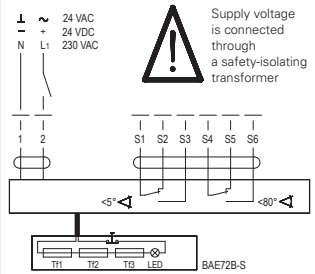
8

The electric actuator fuse can be tested when the power is on, by means of the fuse switch.



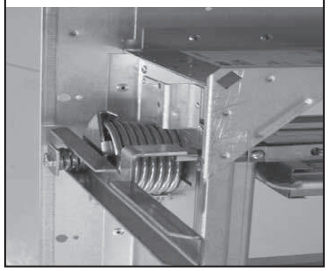
Connection and testing of a damper equipped with an actuator:

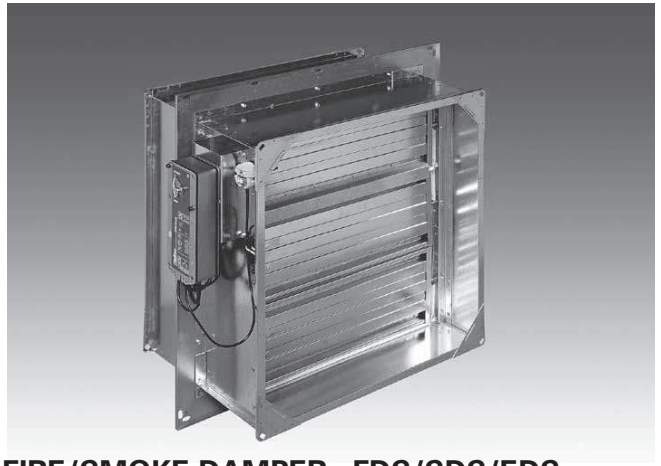
The supply and operating voltage of the motor shall be verified before connection (24 VAC/VDC, 230 VAC). The electric actuator can be tested when the power is on, by means of the fuse switch, or, when the power is off, with a hexagonal spanner (included in the delivery). The final testing is always performed via the control system. See also the instructions on the motor's data plate. The fire damper opens when the power is on and closes when the power is off. The EDS smoke evacuation damper works in the opposite way: it closes when the power is on and opens when the power is off.



Testing of a fire damper equipped with a manual actuator:

The fire damper is opened and the spring set by turning the setting handle anti-clockwise. To lock the damper in this position, lift the handle lug and secure it behind the fuse shaft. The fire damper is closed by lifting the handle so as to free the lug from behind the fuse shaft. If the setting fails, the released fuse must be replaced and the correct operation of the new fuse verified. Simultaneously, the electrical and mechanical operation of the microswitches, which are available as accessories, should be tested.





FIRE/SMOKE DAMPER FDS/SDS/EDS

INSTALLATION INSTRUCTIONS AND CERTIFICATE

1 September 2011

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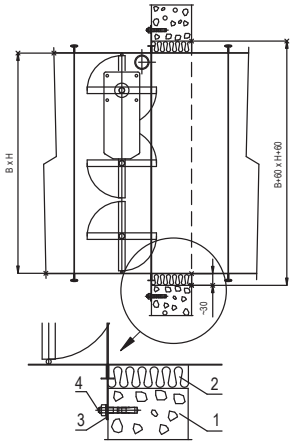
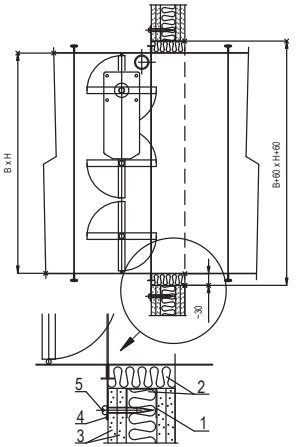
Installation on masonry walls and ceilings



1. Masonry wall/ceiling
2. Mineral wool, min. 40 kg/m^3
3. Mounting frame
4. Expansion anchor (M8 x 50)

Installation on panel walls



1. Frame
2. Mineral wool, min. 40 kg/m^3
3. Plasterboard
4. Mounting frame
5. Self-drilling/self-tapping screw (Ø 6.5 x 50)

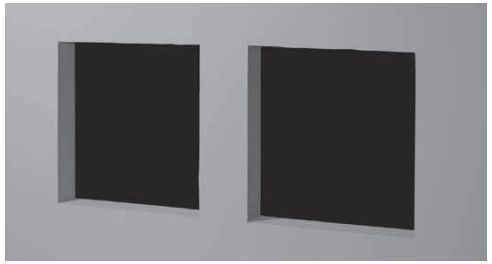
10

Modular installation:

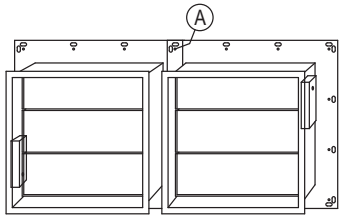
10.1. Dampers installed in the same duct:
A space of at least 100 mm shall be left between fire dampers for installation/joining. The dampers are installed in the same way as individual dampers, but with the flanges overlapping. In the seam, the screw holes (A) in the flanges are aligned one with the next. Use strips of sheet metal (not included in the delivery) to cover and seal the spaces along the duct between the products. With a duct gasket, seal against the difference in level when installing the module in the ductwork.

10.2. Adjacent dampers in separate ducts:
A space of at least 200 mm shall be left between fire dampers for installation/joining. The dampers are installed in the same way as individual dampers, but with the flanges not touching each other.

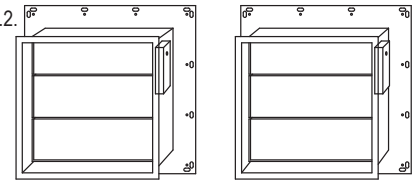
10.3. Subsequent sealing or insulation of the space between the products and the installation hole:
The space between the wall and the perimeter of the module is sealed with mineral wool, min. 40 kg/m^3 (see panel 6). Also, the space between products shall be sealed with mineral wool against the wall, extending for the entire thickness of the wall.



10.1.



10.2.



FDS/SDS/EDS INSTALLATION CERTIFICATE ver. 3.0 1.9.2011 Halton

Installation certificate applying for the installation and control of fire dampers.
This installation certificate must be filled in for each installed fire damper.
This installation certificate applies only to Halton products.

Type approval decision code: VTT-RTH-00068-11

Name of the installation location: _____

Address: _____

_____

Individual product number from the type plate (production order no.): _____

Contractor contact details:

Company name: _____

Company telephone no.: _____

E-mail or Web address: _____

Installer's telephone no.: _____

Installer name(s): _____

Date of installation: _____

Installation location identification (section/floor/room): _____

Notes and considerations: _____

_____

_____

_____

I hereby verify that the installation of this fire damper and ensuring the tightness of the gland have been performed according to the manufacturer's installation instructions:

Place and date: _____ _____ , _____ , 20_____

Installer's name and signature: _____

Installation supervisor's name and signature: _____

This installation certificate must be enclosed with the deed of transfer of the building in question, and a copy of it must be given to rescue officials upon request.