OPTIMUS 120®

Circular Fire and Smoke Damper
EI120S

FIRE SAFETY



CE

UK CA

Installation Instructions
Operation & Maintenance

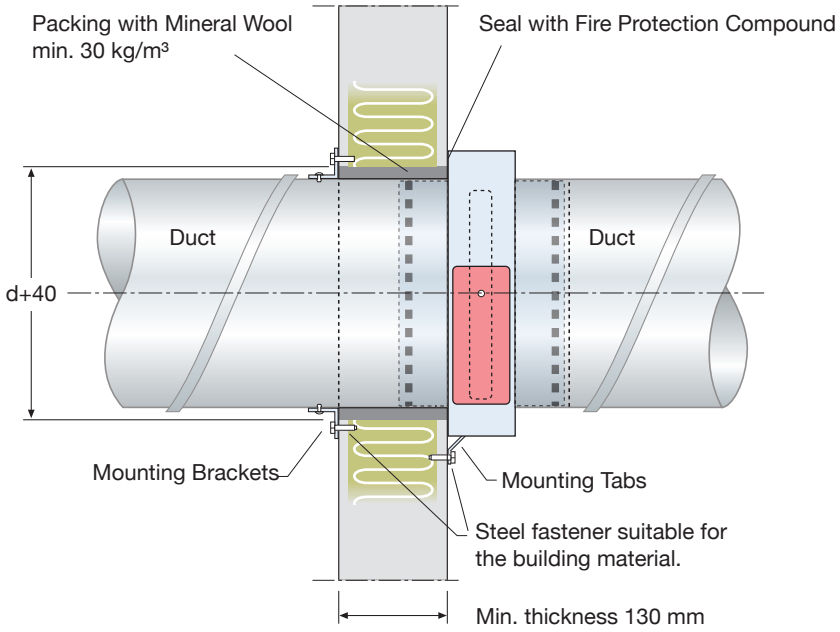
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BEVENT RASCH

Installation Instructions

Wall in Fire Resistance Class EI120
Damper fire resistance class: EI120 (ve i <-> o)S
EC Certificate 0402-CPR-C500557



1. Make an opening for the relevant size (max. d + 40 mm).
2. Install and connect the damper to the ventilation duct terminating flush with the wall surface (after passing through the wall).
3. Secure the damper flat and tightly against the wall using fire-resistant sealant and at least four folded-out mounting lugs. Use suitable fixings for the relevant building material.
4. Fill the gap between the damper casing and the wall with mineral wool packing insulation, min. 30 kg/m³.
5. Secure the duct to the wall using at least two mounting brackets.
6. If the fire/fire smoke damper is not connected to a duct system, e.g. when installed as a terminal device or transfer air device, a non-combustible grille designed for the damper must be fitted on the unconnected sides. Note that the damper blade protrudes beyond the casing in the open position from size Ø315 upwards.
7. Install the thermal sensor with the sensing element positioned in the airflow, ensuring that the movement of the damper blade is not obstructed.
8. Suspend the duct system in accordance with applicable requirements. Ensure that the connecting duct does not affect the damper when exposed to fire.

- *Minimum distance between dampers: 200 mm.*
- *Minimum distance to floor slab/wall: 75 mm.*
- *Damper shaft may be positioned in any orientation.*

Before Installation

Do not expose the damper to moisture or dirt. Check that the damper is not damaged.

The building should not be put into use until the installation is fully operational and the relevant dampers, thermal sensors and smoke detectors have been functionally tested.

Periodic Maintenance and Inspection

Functional Check

- Check the damper casing to ensure that no external damage or other components could obstruct the movement of the damper blade.
- Check the actuator mounting screws and fixings.
- Check that the actuator is functioning correctly by interrupting the power supply using the test button on the BAT 72° thermal sensor. The damper closes. The damper opens again when the power supply is restored by releasing the button.
- Testing via the control unit must be carried out in accordance with the unit's functional testing instructions.

Cleaning

The cleaning requirements are the same as those applicable to the ventilation system or the relevant part of the system.

Cleaning should be carried out as required using a dry cleaning method.

Solvents may damage the fire protection material, seals and bearings. If in doubt, contact Bevent Rasch.

After cleaning, check that the damper is functioning correctly in accordance with the functional check instructions.

Functional Testing

It is recommended that fire dampers be automatically function-tested every 48 hours, with any malfunction indicated immediately.

Alternatively, automatic functional testing may be replaced by manually performed and documented functional tests carried out at least twice a year.

Please note that an MRB, SIOX, Fenix or equivalent control system is required for smoke detectors.

MRB, SIOX and Fenix also feature built-in functional testing of dampers every 48 hours and automatic fault indication.

Designation



BEVENT RASCH

It´s all about the flow

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