

Fire dampers are construction products according to the European Construction Products Regulation. They have an official Certificate of Constasy of Performance and a Declaration of Performance according to European construction law.

Application

Fire damper to prevent the spread of fire and smoke. For installation in walls, ceilings or ventilation shafts which serve as fire sections with the required fire resistance class EI 90 S. Suitable for wall and ceiling installation or as overflow openings. Can be inserted in spiral ducts. Installation sleeve EH (accessories) recommended for one-sided duct connection.

Function

When an air temperature of +72 °C is exceeded, the integrated fusible link releases the semi-circular damper blades which close abruptly by spring force. Two safety brackets lock the shutters.

European certification

- Declaration of Performance according to European Construction Products Regulation 305/2011.

- Tested according to EN 1366-2.
- Classification according to EN 13501-3: EI 90 (ve, ho, i→o) S – (300 Pa). Room closure and insulation 90 min., vertical, horizontal, applicable in both directions, sealed against 300 Pa, even during fire.
- Complies with European product standard DIN EN 15650.

Special features

- Installation directly in spiral duct in the room-closing component.
- Any air flow direction, i.e. for supply air and extract air.
- Low flow resistance, even at high air flow rates.
- Simple fixation with installation sleeve EH (accessories).

Design

Cylindrical duct sleeve with butterfly valve and integrated fusible link.

Delivery

Individually shrink-wrapped in plastic film.

Installation and setting

- The installation and operating instructions contain exact specifications with regard to application and installation.
- The specifications in the related approval must be observed.

Accessories

End switch

For BAK monitoring and signalling the operating status to the central building management system. Attachable to all ND, simple snap-in installation.

BA-S Ref. no. 02585
Switch as changeover contact IP67
Max. load 5–250 V / 6 A (2 A ind.)
Connect. cable 50 cm long / 3 x 0.34 mm²
Wiring diagram no. 830



Installation examples

Duct installation in walls or ceilings

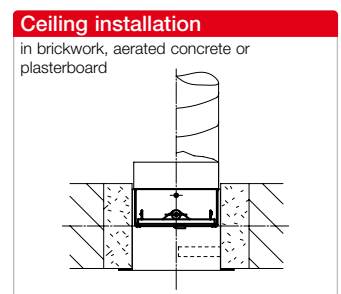
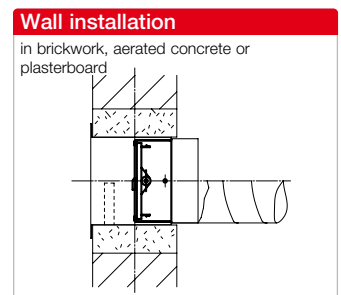
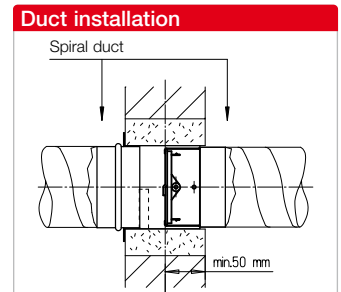
The element is installed by simple insertion in the spiral duct or in the installation sleeve EH (accessories) and then fixed in the wall, ceiling or shaft wall. Installation is possible regardless of the air flow direction. Subsequent one-sided or double-sided duct connection.

Wall or ceiling installation

With installation sleeve EH (accessories) in walls made from brickwork, aerated concrete or plasterboard or system-tested walls over 100 mm thick. Installation is possible on both sides, regardless of the air flow direction.

Overflow opening

Without one-sided or double-sided duct connection, as overflow opening, can only be installed where there is no reason to fear smoke overflow below the trigger temperature. Approval required from building inspection authority in individual cases.



| Order data | | | | Accessories: | | | |
|------------|----------|---------------------|--------------------|---------------------|----------|---------------------------------|---------|
| Type | Ref. no. | Dim. in mm Ø A B | Weight aprx. kg | Installation sleeve | Ref. no. | Dimensions in mm Ø C Ø D E F | |
| BAK 100 | 02620 | 98 60 | 0.24 | EH 100 | 02639 | 100 98 | 110 140 |
| BAK 125 | 02621 | 123 60 | 0.32 | EH 125 | 02640 | 125 123 | 110 140 |
| BAK 160 | 02622 | 158 60 | 0.46 | EH 160 | 02641 | 160 158 | 110 140 |
| BAK 200 | 02623 | 198 60 | 0.64 | EH 200 | 02642 | 200 198 | 110 140 |