

Fire damper EKO-SRBG1 & SRBG2
(incl. -R -C)



Installation and Maintenance Instructions 2025-06

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Owner of manufacturing site: **EKOVENT AB, Vellinge**



Certification by **RISE** Certifying 0402

Product type description:	EKO-SRBG1, -R, -C	EKO-SRBG2, -R, -C
Fire resistance class:	EI 60 (ve i↔o, ho i↔o) S	EI 60 (ve i↔o, ho i↔o) S
		EI 120 (ve i↔o, ho i↔o) S

Product Management

Transport

The fire dampers must be transported to the installation site using a truck or crane with lifting fork.

Important!

To avoid damage the product must be lifted, the product must not be pulled or lowered hard against the surface.

Reception and inspection of the delivery

Check the delivery for transport damage and to ensure that it is complete as soon as it arrives to the site. The approved delivery is acknowledged by the consignment note. Products with defects may not be installed. Contact the supplier immediate.

Storage

The storage of materials at the site should be planned so that you get the minimum possible internal transport. The fire dampers must be protected against water and always stored in a dry place. Furthermore, they must be handled so that no mechanical damage occurs to them.



Mounting

Should not be installed outdoors or in damp area spaces.

Commissioning

The fire dampers must not be put into operation until the complete installation is in operational condition.

Responsibility and training

Assembly must be carried out by personnel with training and experience in installation of fire damper products. Electrical installation requires authorization.

Personnel must read through and understand this instruction manual before assembly. For questions, contact the manufacturer or nearest dealer.

3

EKOVENT AB hereby disclaims all responsibility for:

- Damage due to incorrect transport, handling or storage.
- That the user has failed to inspect, maintain and to a reasonable extent take care of the equipment.
- Personal injury or property damage as a result of the product has been used in violation of instructions and specifications in this manual.

EKOVENT's liability shall be limited to repair or replacement of faulty equipment part.

Mounting

For the CE-marking to apply assembly must always be carried out according to the supplied assembly instructions.

In order to comply with Swedish practice, the facility should be connected to a monitoring system and equipped with a smoke detector that indicates an alarm and activates the closing of the fire gas damper.

Mounting device for fixing dampers in the wall/floor is included in the damper delivery.

At assembly, the following minimum dimensions must be taken into account:

- Minimum distance between dampers: 200 mm
- Minimum distance to wall/floor: 75 mm

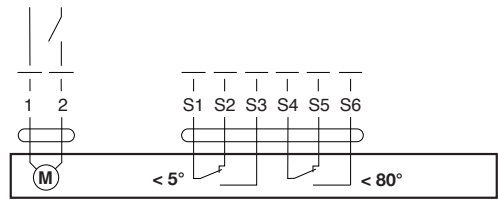
4

Electrical connection

Electrical connection must be carried out by an authorized person according to drawings and current wiring diagram.

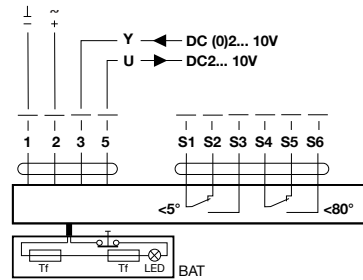
Wiring diagram EKO-SRBG1

$\perp$ ~ AC 24 V
 $- +$ DC 24 V
 $N L1$ AC 230 V

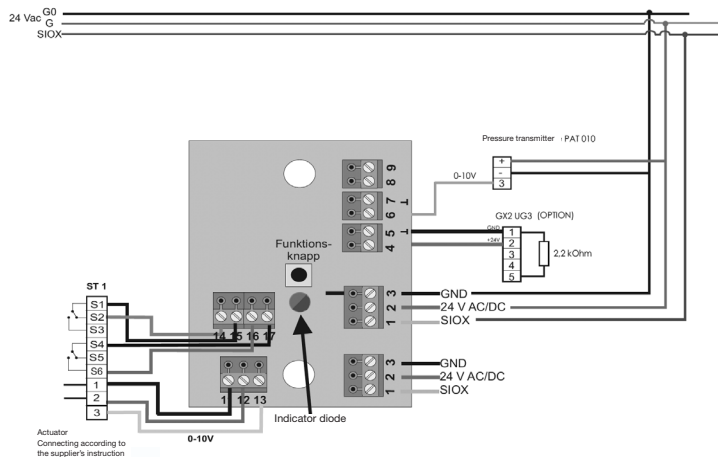


Wiring diagram EKO-SRBG1-R

AC/DC 24 V, modulating



Wiring diagram EKO-SRBG1-C



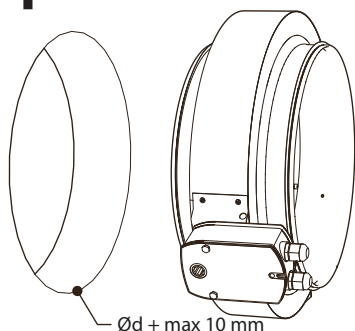
Installation Instructions – Installation on Building Part

Installation WITHOUT wall to damper caulking

i

- Supporting construction, flexible wall of plasterboard or equivalent with fire resistance EI 60.
- Supporting construction, wall or floor of concrete, brick or aerated concrete with fire resistance EI 60

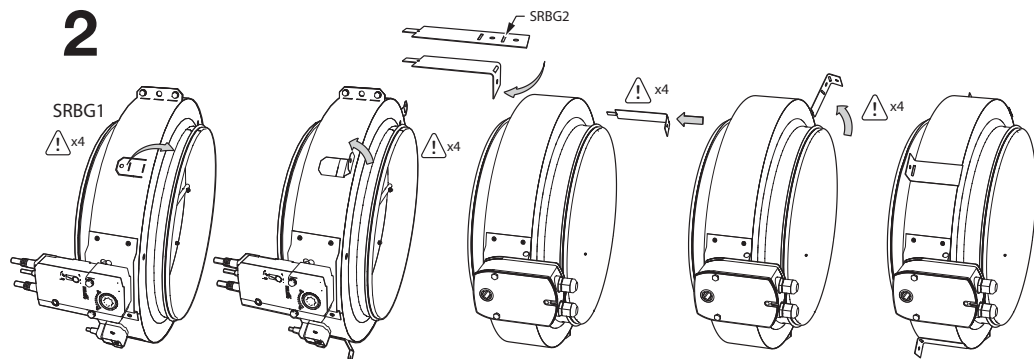
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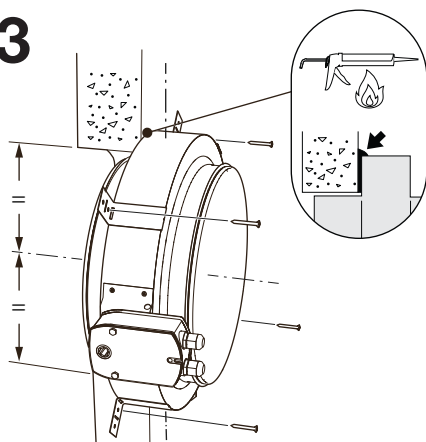
5

Wall opening for fire damper installation:
Duct size $\text{Ød} + 10 \text{ mm}$.

2



3

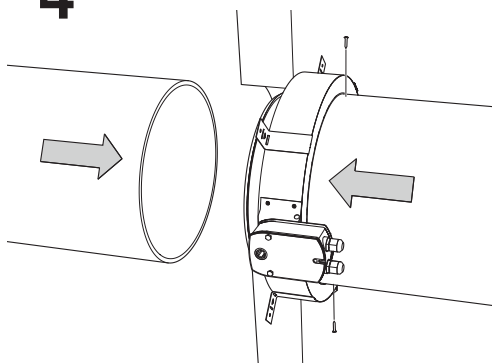


Seal with fire protection sealant between damper and wall and around the fire damper edge. Attach the fire damper to the building part. Use screws that ensure good attachment.

6

Note! The fire damper can be mounted with damper shaft in any position.

4



Attach the duct to the damper with self-drilling screws (maximum length 13 mm) or pop rivets.

Important! Check that the movement of the damper blades is not obstructed. The damper must not be subjected to any load. The shape of the connecting ducts must not be altered.

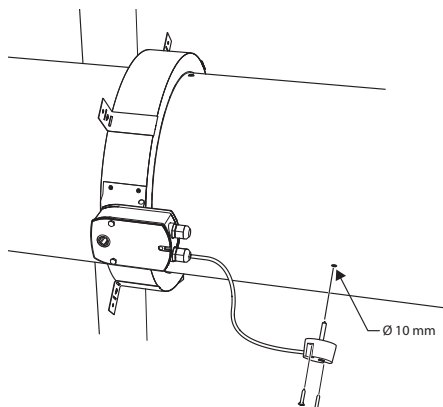
5

i

- Step 5 applies only to SRBG2.

Mount the thermal sensor with sensor in the air stream.

Important! Check that the sensor location does not obstruct the movement of the damper blade.



i

- Suspension device for dampers and ducts must correspond to the perforated fire technical class of the building part
- In the event that the damper is mounted as an end device, EKO-NRS or EKO-FNS must be mounted.

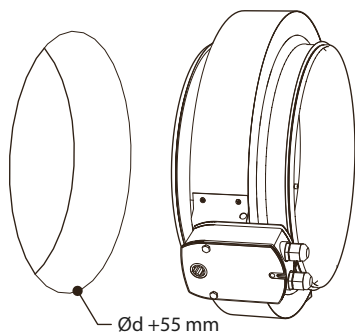
Installation Instructions – Installation on Building Part

Installation WITH wall damper caulking



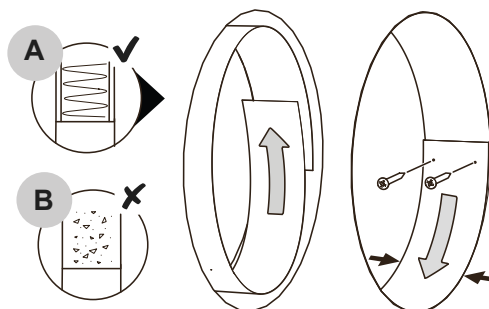
- A** Supporting construction, flexible wall of plasterboard or equivalent with fire resistance EI 60/EI 120.
- B** Supporting construction, wall/ceiling or floor of concrete, brick or concrete block with fire resistance EI 60/ EI 120.

1



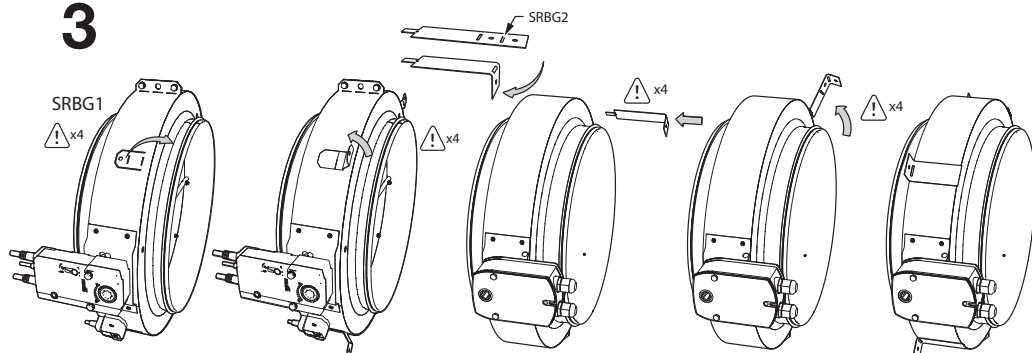
Wall opening for fire damper installation:
Duct size Ød +55 mm.

2

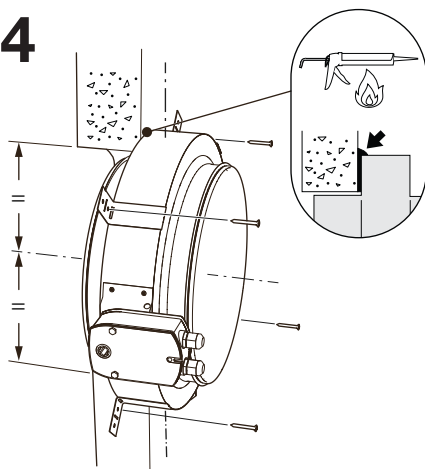


(When supporting construction is wall or floor of concrete, brick or aerated concrete the wall connecting slave is not required.)

3



4

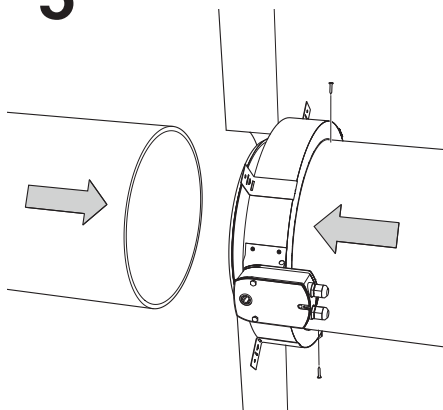


Seal with fire protection sealant between damper and wall and around the fire damper edge. Attach the fire damper to the building part. Use screws that ensure good attachment.

8

Note! The fire damper can be mounted with damper shaft in any position.

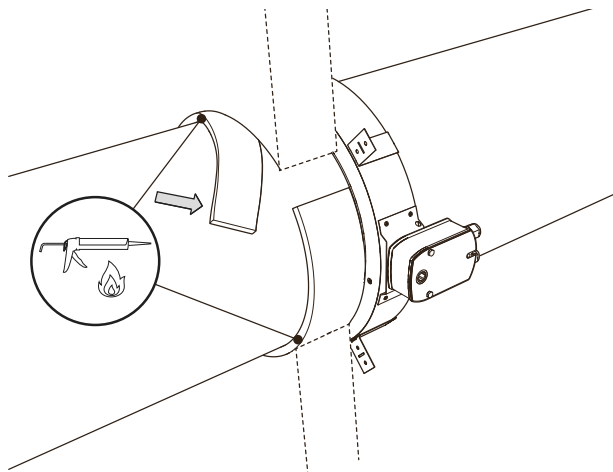
5



Attach the duct to the damper with self-drilling screws (maximum length 13 mm) or pop rivets.

Important! Check that the movement of the damper blades is not obstructed. The damper must not be subjected to any load. The shape of the connecting ducts must not be altered.

6

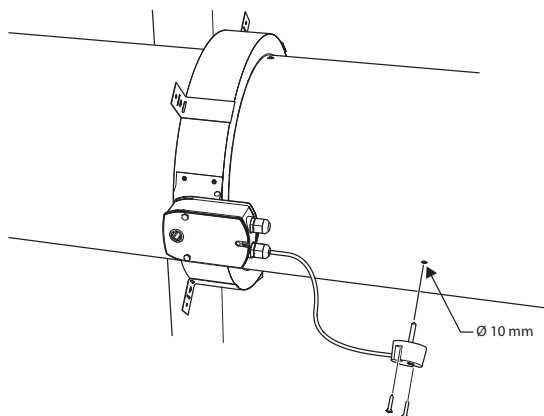


Use damper caulking between duct and wall. Seal with fire-resistant sealant.

i

- Step 7 applies only to SRBG2.

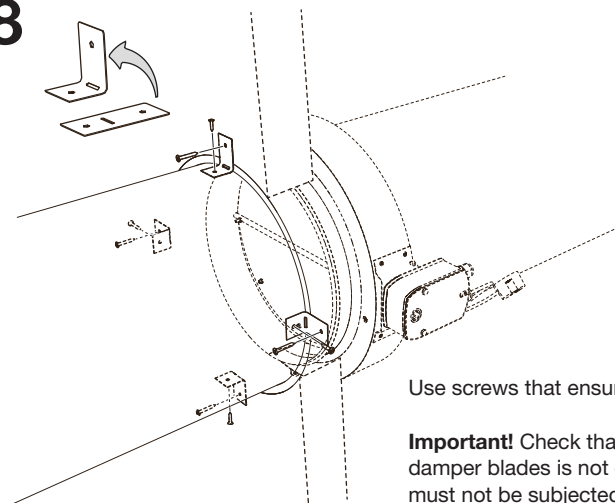
7



Mount the thermal sensor with sensor in the air stream.

Important! Check that the sensor location does not obstruct the movement of the damper blade.

8



Use screws that ensure good attachment.

Important! Check that the movement of the damper blades is not obstructed. The damper must not be subjected to any load. The shape of the connecting ducts must not be altered.

i

- Suspension device for dampers and ducts must correspond to the perforated fire technical class of the building part.
- In the event that the damper is mounted as an end device, EKO-NRS or EKO-FNS must be mounted

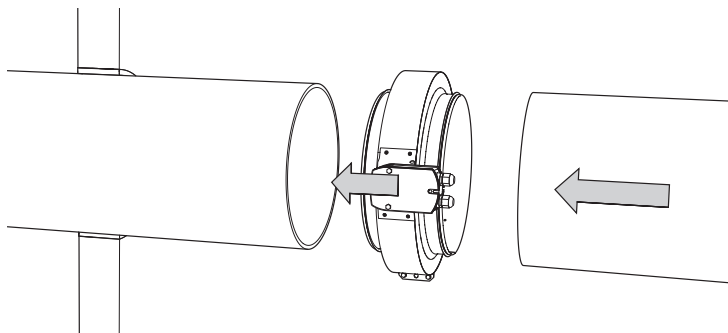
9

Installation in Duct

i

- Supporting construction, wall or floor with fire resistance EI 60.

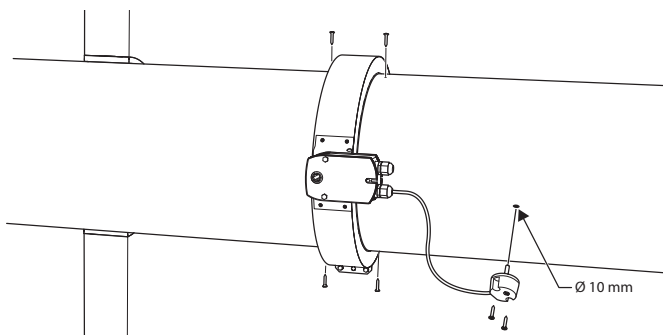
1



10

Note! The fire damper can be mounted with damper shaft in any position.

2



Attach the duct to the damper with self-drilling screws (maximum length 13 mm) or pop rivets.

Important! Check that the movement of the damper blades is not obstructed.

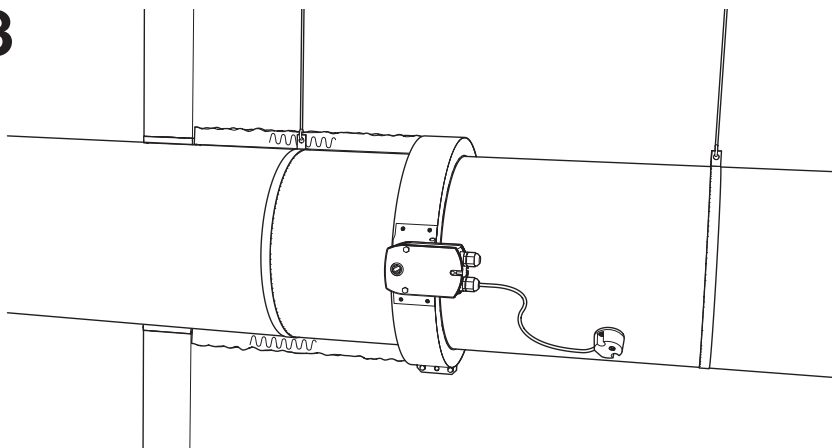
i

- The following applies only to SRBG2.

Mount the thermal sensor with sensor in the air stream.

Important! Check that the sensor location does not obstruct the movement of the damper blade.

3



Insulation of the ventilation duct must be done in accordance with general regulations.

NOTE! The insulation does not need to cover the damper.

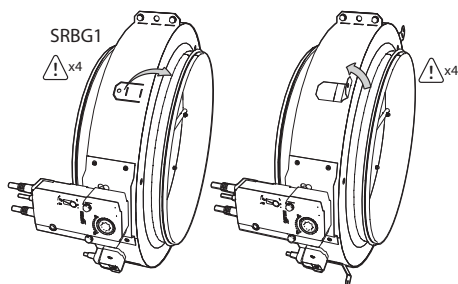
11

i

- The insulation of the ventilation duct (EI60) must be carried out according to the supplier's instructions.
- The duct system should be suspended in accordance with applicable regulations. Ensure that the suspensions and duct system do not affect the damper's shape or obstruct the movement of the damper blade.
- Fire-proofing is carried out according to an approved method that meets the fire resistance class and is provided with fire-resistant sealant.

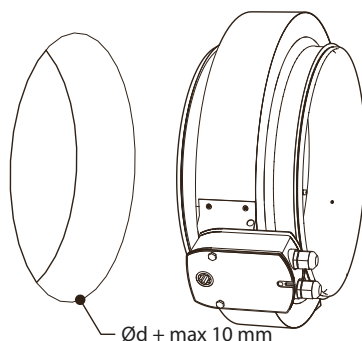
Installation on Shaft Wall

Fire Resistance Class: EI60 (ve i -> o) S.

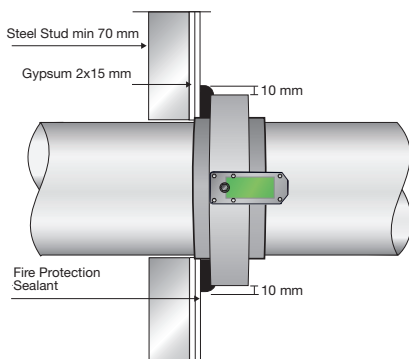


Mounting **WITHOUT** wall damper caulking

- Supporting construction, flexible wall of plasterboard with steel studs corresponding to fire resistance class EI60.
- Dampers must always be installed with a horizontal axis.
- If the damper is installed as an end device, EKO-NRS or EKO-FNS must be installed.
- Duct systems must be suspended in accordance with applicable regulations. Ensure that the suspensions and duct systems do not interfere with the damper's movement.



Wall opening for installation: Duct size $\text{Ød} + \text{max } 10 \text{ mm}$.



Shaft Wall

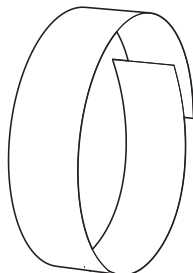
Material specifications

EKO-SRBG1 for installation in shaft walls is supplied as standard in ZincMagnesium ZM120 with mounting components in C2. An alternative option is stainless steel sheet EN 1.4016 (C4).

Mounting Accessories

Flexible wall sleeve EKO-GIS

Used at duct size $\varnothing d +55$ mm.



Installation kit EKO-MOV*

* Included in EKO-SRBG1 delivery



Damper bracket x 4
Only for SRBG2

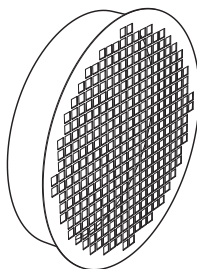


Duct bracket x 4
Only when mounting WITHOUT
wall damper caulking

13

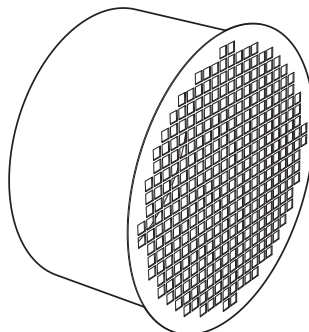
Wire mesh grille EKO-NRS

Used for EKO-SRBG1 100–250 mm



Extension adapter EKO-FNS with wire mesh grille

Used for EKO-SRBG1 250–630 mm and for
all sizes when mounting to sleeve in wall.



Maintenance

Maintenance

External and internal control

Interval: At least every 3 years.

Check for damage and function:

- Wiring to actuators.
- Limit switches and smoke detectors
- The damper casing must be free of foreign matter details that can prevent movement of the damper blade.
- Actuator attachment.
- Damper blade and sealing strip.
- The corrosion protection.

Function control

Automatic function check

In order to comply with Swedish practice, automatic function control should be performed at intervals of 48 hours. Occurring error functions appear in the display.

Manual function check

See separate instructions for the monitoring system.

Check that:

- the fire damper is fully open during operation
- the fire damper closes completely
- the fire damper opens fully
- the fire damper closes completely in the event of a power failure.

Cleaning

Preventive maintenance of the damper shall be made according to the facility's needs. Clean up damper blade and damper body inside with brush, vacuum cleaner or dry cloth.

Note!

Water or other liquids must not be used.

Note!

Temperature sensors and actuators must not be removed without prior contact with Ekovent.

After inspection, the fire damper must be left in its normal operating position.



Warning!

Never put your hands inside the damper when closes. Risk of crushing injuries.

Spare parts list

Actuator, see type designation on the actuator.

Declaration of Performance

Product type:
Fire Damper EKO-SRBG1

Type and batch number according to product label.

Intended use:
Fire damper to be used in conjunction with fire separating elements to maintain fire compartmentation of at least 60 min according to EN 15650:2010.

Manufacturer:
EKOVENT AB, Mejselgatan 7, 23532 Vellinge, www.ekovent.se

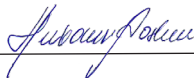
Certificate:
RISE Research Institutes of Sweden AB, nr 0402, has performed type testing, initial inspection of the manufacturing plant and factory production control (FPC) under system 1.

EC Certificate of Conformity 0402-CPR-SC0845-13

Size	Type	Classification
Ø 100 mm to Ø 630 mm	Gypsum wall, Rigid wall/ floor with fire filling and sealant	EI 60 (ve ho i <-> o) S
	Gypsum wall, Rigid wall/ floor without fire filling and sealant	EI 60 (ve ho i <-> o) S
	Horizontal or vertical duct	EI 60 (ve ho i <-> o) S
	Shaft wall	EI 60 (ve, i -> o) S
Classification according to EN 13501-3		
Nominal activation conditions/sensitivity: - Sensing element load bearing capacity - Sensing element response temperature	Pass	ISO 10294-4
Response delay (response time): - Closure time	Pass	EN 1366-2
Operational reliability: - Cycling	Pass	EN 1366-2
Durability of response delay: - Sensing element response to temperature and load-bearing capacity	Pass	EN 1366-2
Durability of operational reliability: - Open and closing cycle tests	20 000 cycles - Pass	EN 15650:2010

The performance of SRBG1 is in conformity with the declared performance above.
This declaration of performance is issued under the sole responsibility of EKOVENT AB.

Signed for and on behalf of the manufacturer by:



Vellinge 2024-12-19, Ljubomir Doslic, Product Manager

Declaration of Performance

Product type:

Fire Damper EKO-SRBG1-R/C

Type and batch number according to product label.

Intended use:

Fire damper to be used in conjunction with fire separating elements to maintain fire compartmentation of at least 60 min according to EN 15650:2010.

Manufacturer:

EKOVENT AB, Mejselgatan 7, 23532 Vellinge, www.ekovent.se

Certificate:

RISE Research Institutes of Sweden AB, nr 0402, has performed type testing, initial inspection of the manufacturing plant and factory production control (FPC) under system 1.

EC Certificate of Conformity 0402-CPR-SC0845-13

Size	Type	Classification
Ø 100 mm to Ø 630 mm	Gypsum wall, Rigid wall/ floor with fire filling and sealant	EI 60 (ve ho i <-> o) S
	Gypsum wall, Rigid wall/ floor without fire filling and sealant	EI 60 (ve ho i <-> o) S
	Horizontal or vertical duct	EI 60 (ve ho i <-> o) S
	Shaft wall	EI 60 (ve, i -> o) S
Classification according to EN 13501-3		
Nominal activation conditions/sensitivity: - Sensing element load bearing capacity - Sensing element response temperature	Pass	ISO 10294-4
Response delay (response time): - Closure time	Pass	EN 1366-2
Operational reliability: - Cycling	Pass	EN 1366-2
Durability of response delay: - Sensing element response to temperature and load-bearing capacity	Pass	EN 1366-2
Durability of operational reliability: - Open and closing cycle tests	20 000 cycles - Pass	EN 15650:2010

The performance of SRBG1-R/C is in conformity with the declared performance above.
This declaration of performance is issued under the sole responsibility of EKOVENT AB.

Signed for and on behalf of the manufacturer by:



Vellinge 2024-12-19, Ljubomir Doslic, Product Manager

Declaration of Performance

Product type:

Fire Damper EKO-SRBG2

Type and batch number according to product label.

Intended use:

Fire damper to be used in conjunction with fire separating elements to maintain fire compartmentation of at least 120 / 60 min according to EN 15650.2010.

Manufacturer:

EKOVENT AB, Mejselgatan 7, 23532 Vellinge, www.ekovent.se

Certificate:

RISE Research Institutes of Sweden AB, nr 0402, has performed type testing, initial inspection of the manufacturing plant and factory production control (FPC) under system 1.

EC Certificate of Conformity 0402-CPR-SC0397-13

Size	Type	Classification
Ø 100 mm to Ø 630 mm	Gypsum wall, Rigid wall/ floor with fire filling and sealant	EI 120 (ve ho i <-> o) S
	Gypsum wall, Rigid wall/ floor without fire filling and sealant	EI 60 (ve ho i <-> o) S
	Horizontal or vertical duct	EI 60 (ve ho i <-> o) S
Classification according to EN 13501-3		
Nominal activation conditions/sensitivity: - Sensing element load bearing capacity - Sensing element response temperature	Pass	ISO 10294-4
Response delay (response time): - Closure time	Pass	EN 1366-2
Operational reliability: - Cycling	Pass	EN 1366-2
Durability of response delay: - Sensing element response to temperature and load-bearing capacity	Pass	EN 1366-2
Durability of operational reliability: - Open and closing cycle tests	20 000 cycles - Pass	EN 15650:2010

The performance of SRBG2 is in conformity with the declared performance above.
This declaration of performance is issued under the sole responsibility of EKOVENT AB.

Signed for and on behalf of the manufacturer by:



Vellinge 2024-05-07, Ljubomir Doslic, Product Manager

Declaration of Performance

Product type:

Fire Damper EKO-SRBG2-R/C

Type and batch number according to product label.

Intended use:

Fire damper to be used in conjunction with fire separating elements to maintain fire compartmentation of at least 120 / 60 min according to EN 15650.2010.

Manufacturer:

EKOVENT AB, Mejselgatan 7, 23532 Vellinge, www.ekovent.se

Certificate:

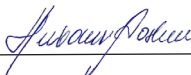
RISE Research Institutes of Sweden AB, nr 0402, has performed type testing, initial inspection of the manufacturing plant and factory production control (FPC) under system 1.

EC Certificate of Conformity 0402-CPR-SC0397-13

Size	Type	Classification
Ø 100 mm to Ø 630 mm	Gypsum wall, Rigid wall/ floor with fire filling and sealant	EI 120 (ve ho i <-> o) S
	Gypsum wall, Rigid wall/ floor without fire filling and sealant	EI 60 (ve ho i <-> o) S
	Horizontal or vertical duct	EI 60 (ve ho i <-> o) S
Classification according to EN 13501-3		
Nominal activation conditions/sensitivity: - Sensing element load bearing capacity - Sensing element response temperature	Pass	ISO 10294-4
Response delay (response time): - Closure time	Pass	EN 1366-2
Operational reliability: - Cycling	Pass	EN 1366-2
Durability of response delay: - Sensing element response to temperature and load-bearing capacity	Pass	EN 1366-2
Durability of operational reliability: - Open and closing cycle tests	20 000 cycles - Pass	EN 15650:2010

The performance of SRBG2-R/C is in conformity with the declared performance above.
This declaration of performance is issued under the sole responsibility of EKOVENT AB.

Signed for and on behalf of the manufacturer by:



Vellinge 2024-05-07, Ljubomir Doslic, Product Manager

Notes:

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EKOVENT®

HEAD OFFICE
Mejselgatan 7, 235 32 Vellinge
Tel +46 40 42 16 00
www.ekovent.se info@ekovent.se

REGIONAL OFFICE UMEÅ
Strömvägen 1, 901 32 Umeå
Tel +46 90-13 33 01

REGIONAL OFFICE GÖTEBORG
Boråsvägen 5, 435 31 Mölnlycke
Tel +46 31 23 07 40

REGIONAL OFFICE STOCKHOLM
Vallgatan 9, 170 67 Solna
Tel +46 8 508 613 00