



Product manual

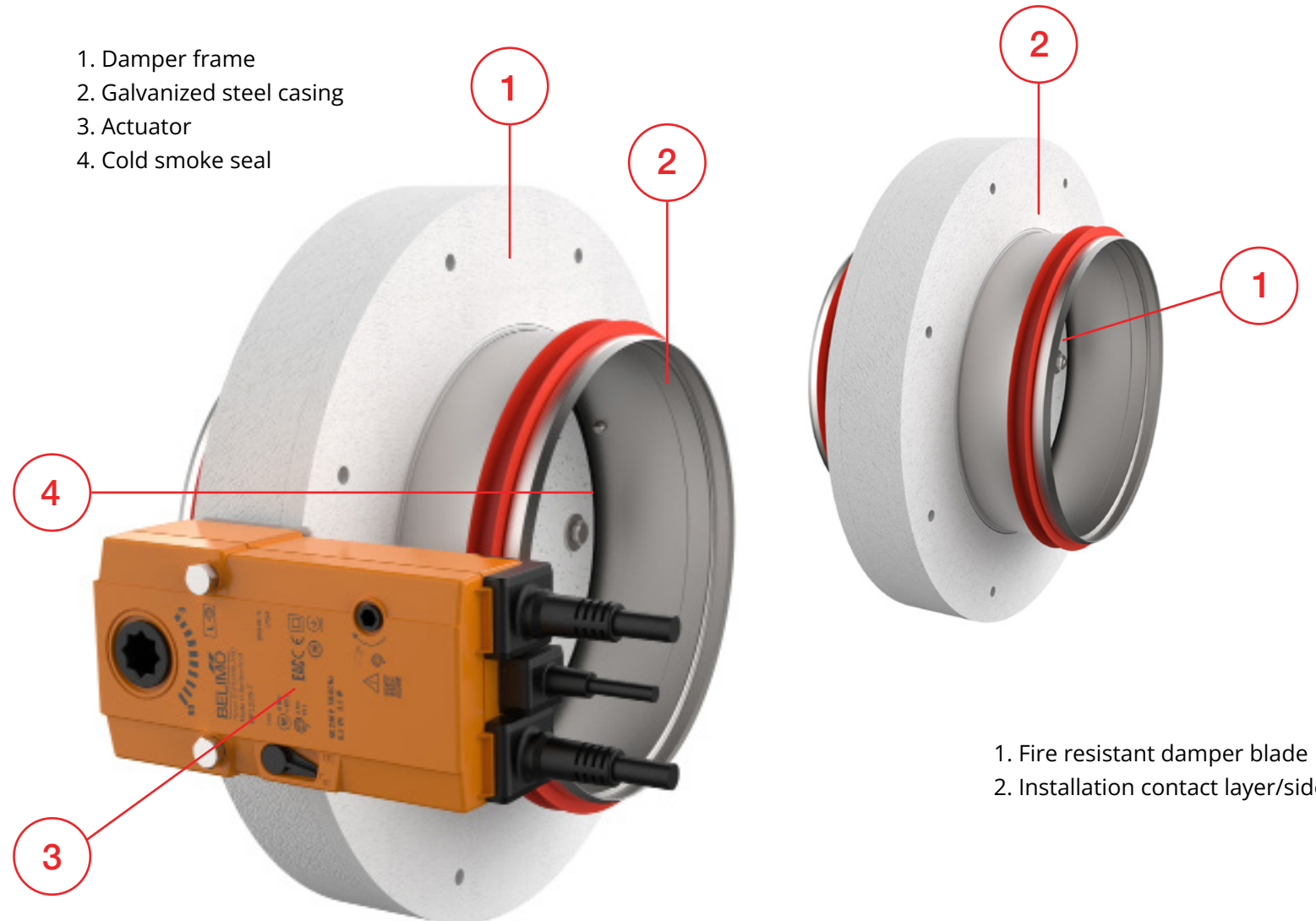
E-FDC-DD

Fire damper

Fire protection

Version 1.0.0
Issue Date: 19.12.2023.

- 1. Damper frame
- 2. Galvanized steel casing
- 3. Actuator
- 4. Cold smoke seal



- 1. Fire resistant damper blade
- 2. Installation contact layer/side

- ▼ PRODUCT OVERVIEW
- ▼ DIMENSIONS
- ▼ INSTALLATIONS
- ▼ ACTUATORS
- ▼ ACCESSORIES
- ▼ MAINTENANCE AND OPERATION



PRODUCT OVERVIEW

* The images shown are for illustration purposes only and may not be an exact representation of the product.

PRODUCT OVERVIEW

Fire dampers FDDD are used for prevention of fire spread through the ventilation ducts and between the fire sections. Fire damper E-FDC-DD consists of galvanized sheet metal casing, calcium silicate damper blade, high temperature resistant installation frame made from calcium silicate and electric actuator.

Fire damper casing is made out of galvanized steel sheet. Variants produced from stainless steel and powder coated steel are also available. Calcium silicate blade is equipped with brass bearings and seals. Brass bearings are pressed into the casing. Calcium silicate blade is equipped with the seal made out of EPDM rubber.

Fire dampers E-FDC-DD are produced up to size d630 and have 25 mm thick damper blade.

Fire dampers are equipped with Belimo electric actuators (24 V or 230 V versions). Actuator's spring closes the damper blade when it's thermal fuse senses the ambient temperature has reached 72°C. Closing and reopening of damper blade can also be done remotely via control signal.

Declared blade airtightness - class 3 and casing airtightness - class C are tested according to EN 1751.



- ▼ PRODUCT OVERVIEW
- ▼ DIMENSIONS
- ▼ INSTALLATIONS
- ▼ ACTUATORS
- ▼ ACCESSORIES
- ▼ MAINTENANCE AND OPERATION



PRODUCT OVERVIEW

FIRE RESISTANCE CLASSIFICATION

E-FDC-DD fire resistance is tested according to EN 1366-2

"Fire resistance tests for service installations- Part 2: Fire dampers". Classification of the fire dampers is defined according to EN 13501-3 Fire classification of construction products and building elements.

Installation in both, vertical and horizontal axis of rotation of the dampers blade is acceptable (with the axis angle 0 - 360°).

Fire resistance of fire damper depends on classification of walls or ceilings. It is allowed to install products to walls or ceilings only according to products Declaration of Performance. Walls or ceilings with greater fire resistance can also be used. Fire damper should be installed according to the installation manual which can be found within this document.

- E - Integrity
- I - Insulation
- 90 - Classification time in minutes
- S - Smoke leakage
- ve - Damper installed in vertical compartment
- ho - Damper installed in horizontal compartment
- i→o - Fire performance criteria are met on both sides



1

CLASS C EN1751

2

Serial Number: 20152380030001

3

Production Date: 09.05.2022.

4

Type: E-FDC-DD-d100-M230-S

5

Dimension: d100

15



20152380030001

6

Act. Mechanism: M230

7

Nominal Voltage: AC 230

8

Signalisation: Yes

9

IP Protection: IP54

10

Free Space (dm2): 0,5

11

Termal Fuse: 72

12

DOP EN15650:2010 717/2022

13

USER MANUALS

14

El60 (Ve i < - > o)S 300Pa

16



1812
17
2483-CPR-10117



For fire classification of product
consult declaration of performance.
Install according to the instructions!

PRODUCT OVERVIEW

DIMENSIONS

INSTALLATIONS

ACTUATORS

ACCESSORIES

MAINTENANCE AND OPERATION

FIRE DAMPER - E-FDC-DD

TECHNICAL DATA

Fire damper casing is manufactured from galvanized steel sheet, but on demand can be produced out of:

- Galvanized steel and powder coated

Product label

- 1 - Casing air leakage classification
- 2 - Serial number
- 3 - Production date
- 4 - Type
- 5 - Dimension of the fire damper
- 6 - Mechanism type
- 7 - Nominal voltage
- 8 - Signalisation (end contacts)
- 9 - IP protection
- 10 - Free space
- 11 - Thermal fuse temperature
- 12 - Number of the European standard and year of its publication
- 13 - Declaration of performance
- 14 - Classification according to EN 13501-3
- 15 - Barcode
- 16 - CE mark

Product specifications

Nominal sizes E-FDC-DD	100 - 630 [mm]
Casing length	170 mm
Temperature range	-20 °C ... 50 °C
Release temperature	72 °C (standard)
Volume flow rate range	up to 21700 m³/h
Differential pressure range	up to 600 Pa
Casing air leakage	Class C, EN 1751
Closed blade air leakage	Class 3, EN 1751
Upstream velocity	< 12 m/s
EC conformity	EN 13501-3, EN 1366-2, EN 15650, EN 1751, CPR no.305/2011
Declaration of performance	DoP 717/2022

Pressure drop tables

Pressure drop values are described with the "Zeta" values for each size. The exact pressure drop in [Pa] is calculated using the following formula:

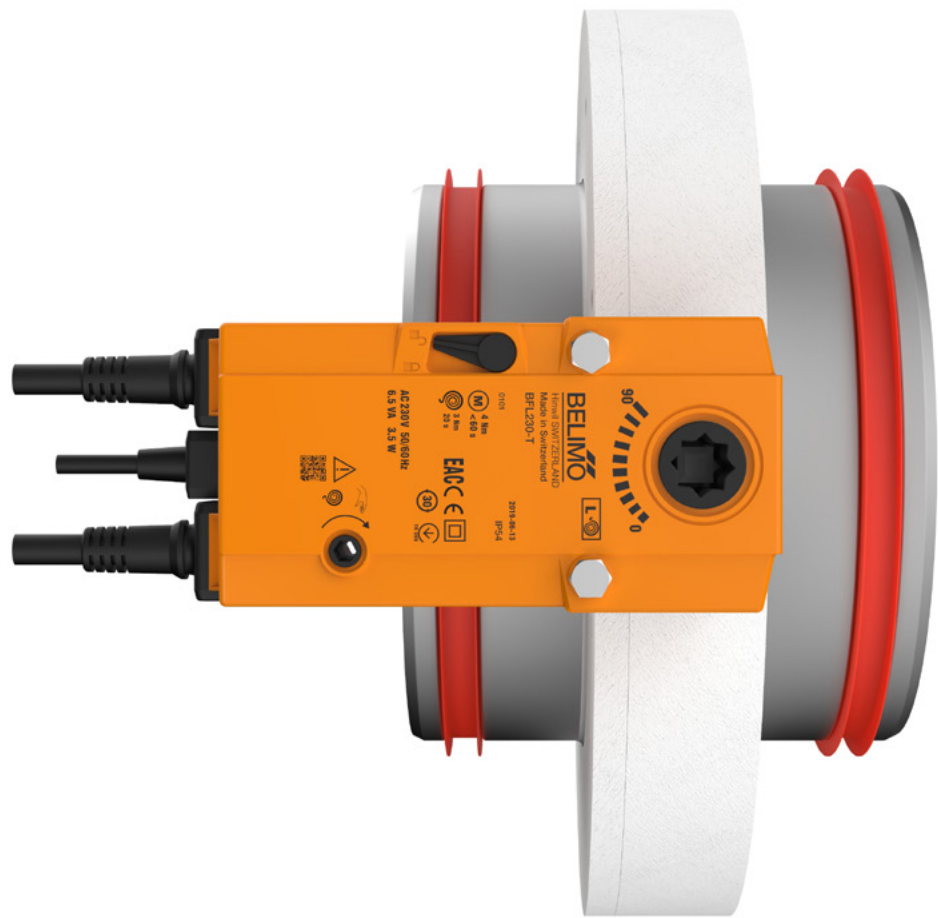
$$\Delta p \text{ [Pa]} = \zeta * v^2 * 0,6$$

where ζ is Zeta value from the tables below, v is airflow velocity in [m/s]

E-FDC-DD

Dimensional range

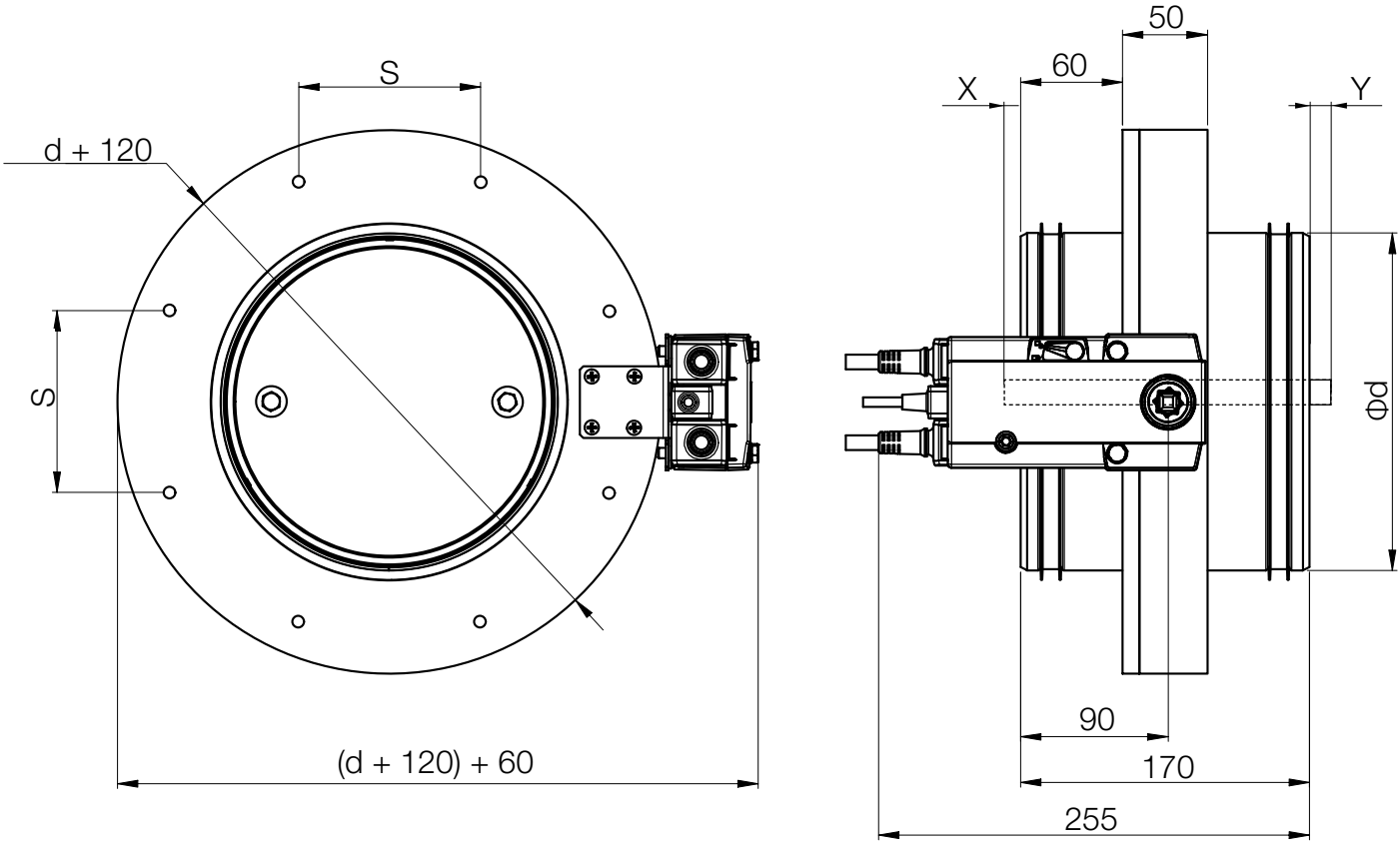
Model	Diameter Ød [mm]	Cross section [dm²]	Net area [dm²]
E-FDC-DD D100	98	0,74	0,50
E-FDC-DD D125	123	1,17	0,87
E-FDC-DD D160	158	1,93	1,55
E-FDC-DD D200	198	3,05	2,56
E-FDC-DD D250	248	4,79	4,18
E-FDC-DD D315	313	7,64	6,87
E-FDC-DD D355	353	9,73	8,78
E-FDC-DD D400	398	12,37	11,30
E-FDC-DD D450	448	15,69	14,48
E-FDC-DD D500	498	19,39	18,04
E-FDC-DD D560	558	21,71	22,84
E-FDC-DD D630	628	30,86	29,15



- PRODUCT OVERVIEW
- DIMENSIONS
- INSTALLATIONS
- ACTUATORS
- ACCESSORIES
- MAINTENANCE AND OPERATION

DIMENSIONS

Model	Weight [kg]	
E-FDC-DD D100	3,11	Belimo BFL 1,1kg
E-FDC-DD D125	3,49	
E-FDC-DD D160	4,04	
E-FDC-DD D200	4,69	
E-FDC-DD D250	5,78	
E-FDC-DD D315	7,24	
E-FDC-DD D355	8,87	Belimo BFN 1,4kg
E-FDC-DD D400	10,14	
E-FDC-DD D450	11,66	
E-FDC-DD D500	13,3	
E-FDC-DD D560	15,31	
E-FDC-DD D630	17,58	



Length of damper blade outside of casing

Model	X side	Y side
E-FDC-DD D100	/	/
E-FDC-DD D125	/	/
E-FDC-DD D160	/	/
E-FDC-DD D200	12 mm	16 mm
E-FDC-DD D250	37 mm	41 mm
E-FDC-DD D315	70 mm	73 mm
E-FDC-DD D355	90 mm	93 mm
E-FDC-DD D400	112 mm	116 mm
E-FDC-DD D450	137 mm	141 mm
E-FDC-DD D500	162 mm	166 mm
E-FDC-DD D560	192 mm	196 mm
E-FDC-DD D630	227 mm	231 mm

MODELS

Casings

E-FDC-DD
Cylindrical fire damper with 25 mm damper blade and fire classification up to EI 90S. Sizes range from d100 till d630



- ▼ PRODUCT OVERVIEW
- ▼ DIMENSIONS
- ▼ INSTALLATIONS
- ▼ ACTUATORS
- ▼ ACCESSORIES
- ▼ MAINTENANCE AND OPERATION



PRODUCT OVERVIEW

Actuators

M230-S
Belimo 230 V electro motor operating mechanism, comes with integrated end switches. In case of fire, the fire damper closes automatically. Damper closing can be initiated either by thermoelectric release device or remotely by triggering the electro motor. Upon closure, damper blade is locked in closed position and can be opened by sending a signal to electro motor. Standard thermoelectric release point is 72 °C.

M24-S
Belimo 24 V electro motor operating mechanism, comes with integrated end switches. In case of fire, the fire damper closes automatically. Damper closing can be initiated either by thermoelectric release device or remotely by triggering the electro motor. Upon closure, damper blade is locked in closed position and can be opened by sending a signal to electro motor. Standard thermoelectric release point is 72 °C.

M24-S-ST
Belimo 24 V electro motor operating mechanism, comes with integrated end switches. In case of fire, the fire damper closes automatically. Damper closing can be initiated either by thermoelectric release device or remotely by triggering the electro motor. Upon closure, damper blade is locked in closed position and can be opened by sending a signal to electro motor. Standard thermoelectric release point is 72 °C. Actuator is additionally equipped with connection plug for easy connection with power supply and communication modules.

Ordering key

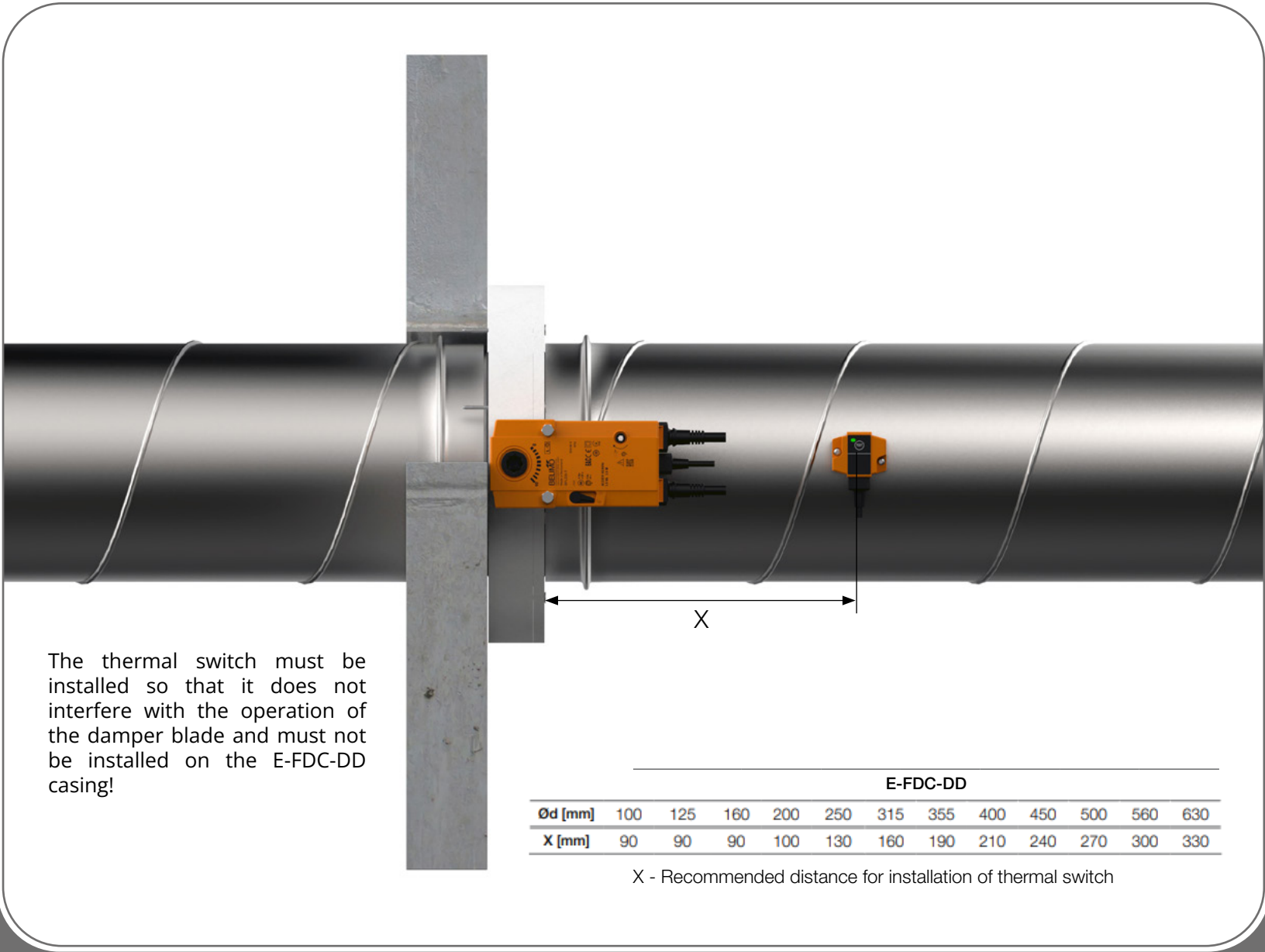
(1) Damper type (2) Dimension (3) Actuator type

E-FDC- - **d250** - **M230-S**

- (1) **E-FDC-DD**
- (2) Damper diameter
d100 till **d630**
- (3) Actuator type:
M230-S - electric actuator AC/DC 230 V
M24-S - electric actuator AC/DC 24 V
M24-S-ST - electric actuator AC/DC 24 V with connection plug

INSTALLATION

The E-FDC-DD fire damper is always tested in standardized support frames (both in a rigid wall and in a flexible wall) in accordance with EN 1366-2: 2015. The results obtained are valid for all similar support frames which have a thickness and/ or density and/or fire resistance similar or greater than the one on the test.



The thermal switch must be installed so that it does not interfere with the operation of the damper blade and must not be installed on the E-FDC-DD casing!

E-FDC-DD												
Ød [mm]	100	125	160	200	250	315	355	400	450	500	560	630
X [mm]	90	90	90	100	130	160	190	210	240	270	300	330

X - Recommended distance for installation of thermal switch

- PRODUCT OVERVIEW
- DIMENSIONS
- INSTALLATIONS
- ACTUATORS
- ACCESSORIES
- MAINTENANCE AND OPERATION

INSTALLATION

The duct connected to the fire damper must be supported or hung in such a way that the damper does not carry its weight. The damper must not support any part of the surrounding construction or wall which could cause damage and consequent damper failure. It is recommended to connect the damper with a flexible connection on either end of the damper.

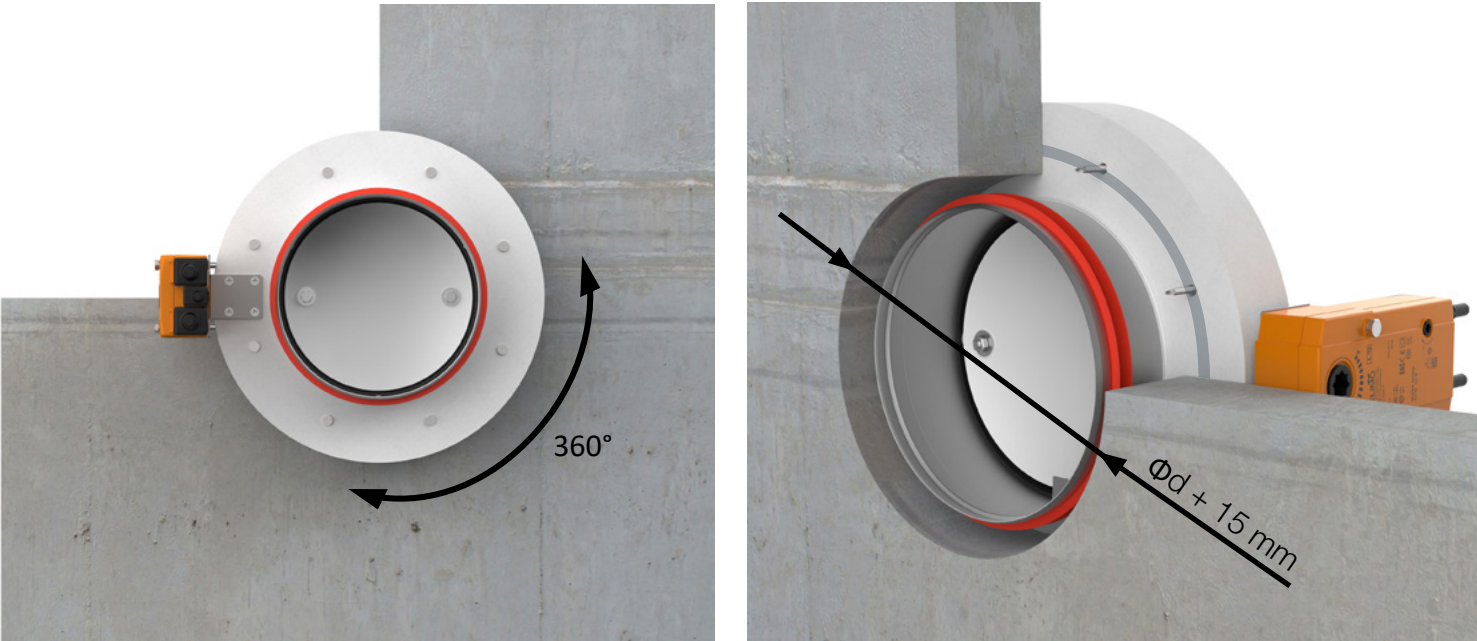
The damper driving mechanism can be placed on either side of the wall, however it needs to be placed in such way that it ensures an easy access during inspection.

- Mounting is possible with the blade axis in horizontal or in vertical position
- The installation must comply with the tests that were performed during certification
- Avoid any obstruction of the moving blade by the connected ducts
- The class of air-tightness is maintained in case the installation of the damper is made in accordance with the technical manual
- Operating temperature: 50 °C max
- For indoor use only

The gap in the installation opening between the fire damper and the wall/ceiling can be increased by up to 50%, or decreased to the smallest dimension where there is sufficient space for installation of the seal!

Damper size - Ød [mm]	Opening size - Ød+2A (Max)
Ød	Ød + 15 mm

Recommended opening dimensions:
Installation in both, vertical and horizontal axis of rotation of the dampers blade is acceptable
(rigid walls with the axis angle 0 - 360°, flexible walls 0° - 90°-180°- 270°- 360°).



Range	Supporting construction	Wall thickness	Supporting construction details	Type of installation	Classification	Tested underpressure	Details	Construction type	Sealing type
E-FDC-DD	Rigid wall	≥ 100 mm	Aerated concrete (≥ 550kg/m³) Reinforced concrete (≥ 2200kg/m³)	/	EI 60 (ve i↔o)S	300Pa			
		≥ 70 mm	Gypsum blocks (≥ 995kg/m³)	/	EI 60 (ve i↔o)S	300Pa			
	Flexible wall	≥ 100 mm	A: Plasterboard type F (EN520), mineral wool up to 60 kg/m³	/	EI 60 (ve i↔o)S	300Pa			
			B: Plasterboard type A (EN520), mineral wool up to 60 kg/m³						
		≥ 100 mm	A: Plasterboard type F (EN520), mineral wool up to 60 kg/m³	Installation with profile inserts	EI 90 (ve i↔o)S	300Pa			
			B: Plasterboard type A (EN520), mineral wool up to 60 kg/m³		EI 60 (ve i↔o)S				
	Floor/ Ceiling	≥ 100 mm	Aerated concrete (≥ 550kg/m³) Reinforced concrete (≥ 2200kg/m³)	Remote from floor/ceiling on the insulated duct	EI 60 (ho o →i)S	300Pa			

-  Aerated concrete (≥ 550 kg/m³) or reinforced concrete (≥ 2200 kg/m³) wall, more than 100 mm thick
-  Gypsum blocks (≥ 995 kg/m³) wall, more than 100 mm thick
-  Plasterboard wall, type F (EN520), Plasterboard wall, type A (EN520), more than 100 mm thick
-  Plasterboard wall, type F (EN520), Plasterboard wall, type A (EN520), more than 100 mm thick
-  Floor/ Ceiling installation, Aerated concrete (≥ 550kg/m³) Reinforced concrete (≥ 2200kg/m³) more than 100 mm thick

FIRE DAMPER - E-FDC-DD

 E-FDC-DD installation

Rigid wall installation

The wall is composed of concrete blocks (minimum density of 550 kg/m³) or reinforced concrete (minimum density of 2200 kg/m³) and with a minimum thickness of 100 mm.



INSTALLATION



- ▼ PRODUCT OVERVIEW
- ▼ DIMENSIONS
- ▼ INSTALLATIONS
- ▼ ACTUATORS
- ▼ ACCESSORIES
- ▼ MAINTENANCE AND OPERATION

Possible damper orientations

0 - 90 - 180 - 270 - 360°

1. Create a wall opening.

2. Before installing the damper on the wall, it is necessary to apply a thin strip of silicone to the contact layer of calcium silicate.

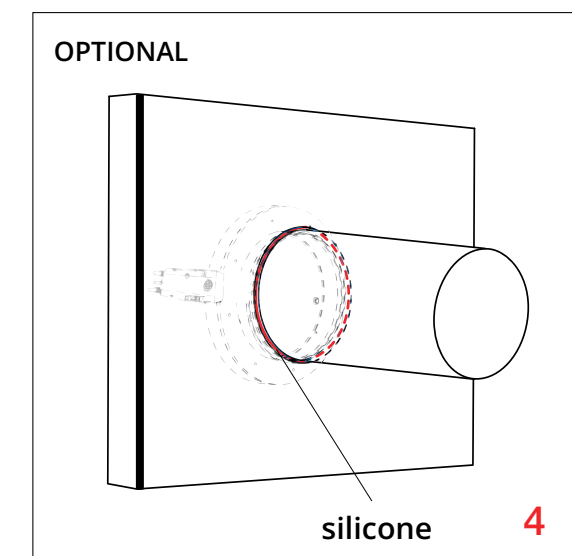
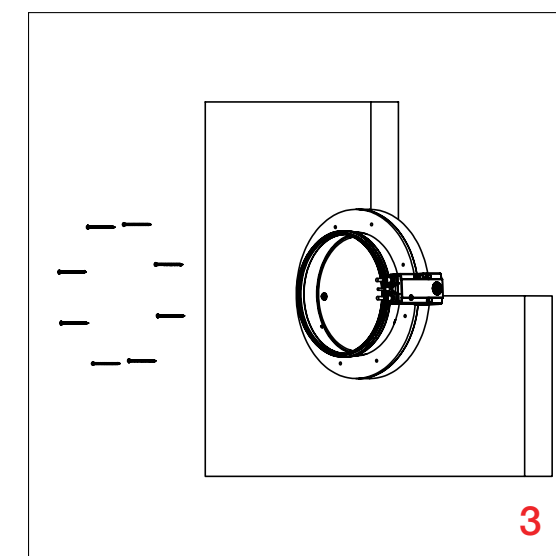
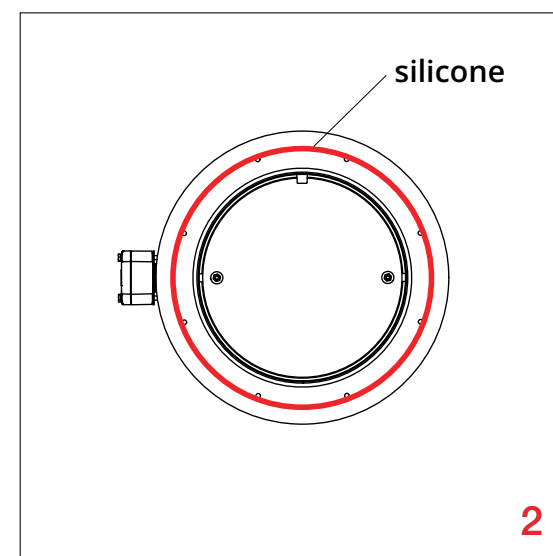
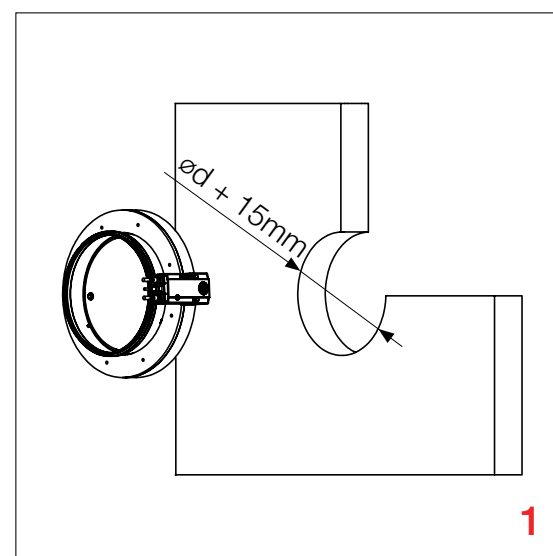
*Use silicone resistant to elevated temperatures.

3. Insert fire damper into the wall and fasten with screws (8 pcs, 6x100 mm).

4. OPTIONAL Seal the gap on the opposite side of the wall with silicone resistant to elevated temperatures. NOTE! Fire dampers are tested and classified without the sealing on the opposite side of the wall. This sealing is for visual purposes only, and does not affect the performance of the fire damper.

Damper blade must be closed during installation!

Test the operation of the damper blade!



Gypsum blocks wall installation

The wall is composed of gypsum blocks (minimum density of 995 kg/m³), and with minimum thickness of 70 mm.



INSTALLATION



- ▼ PRODUCT OVERVIEW
- ▼ DIMENSIONS
- ▼ INSTALLATIONS
- ▼ ACTUATORS
- ▼ ACCESSORIES
- ▼ MAINTENANCE AND OPERATION

Possible damper orientations



1. Create a wall opening.

2. Before installing the damper on the wall, it is necessary to apply a thin strip of silicone to the contact layer of calcium silicate.

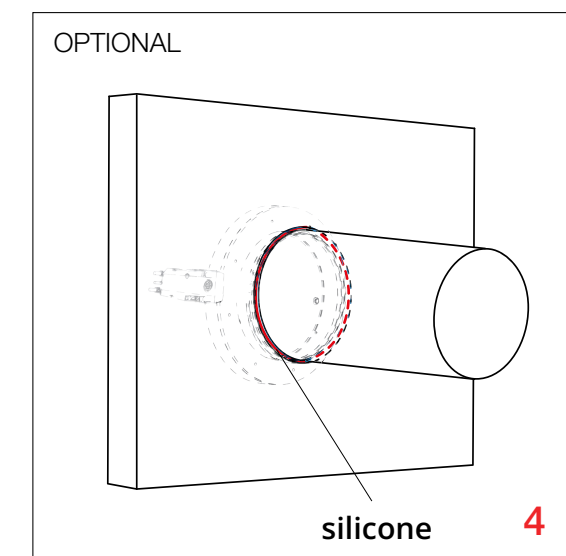
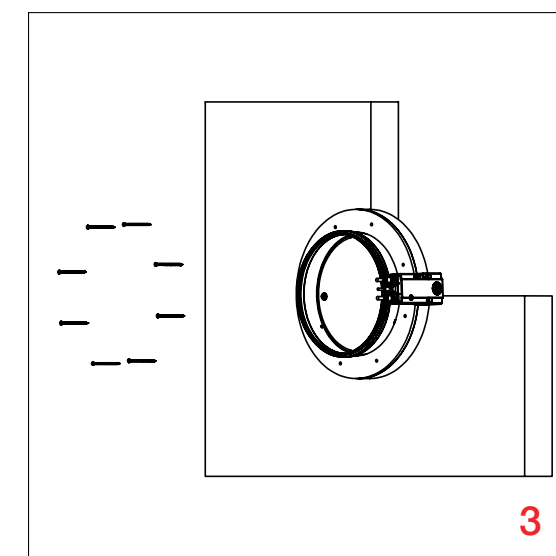
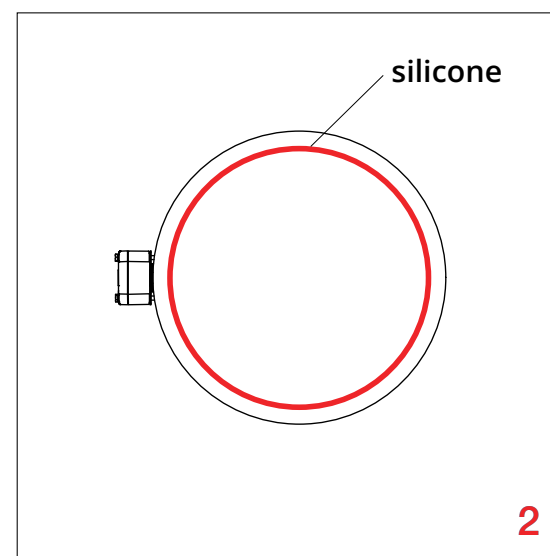
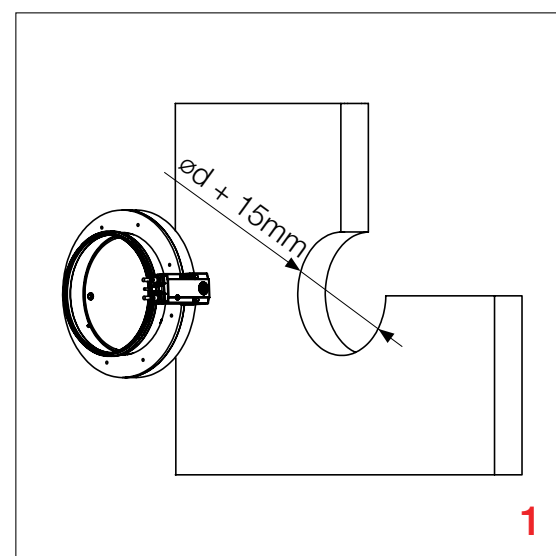
*Use silicone resistant to elevated temperatures.

3. Insert fire damper into the wall and fasten with screws (8 pcs, 6x100 mm).

4. OPTIONAL Seal the gap on the opposite side of the wall with silicone resistant to elevated temperatures. NOTE! Fire dampers are tested and classified without the sealing on the opposite side of the wall. This sealing is for visual purposes only, and does not affect the performance of the fire damper.

Damper blade must be closed during installation!

Test the operation of the damper blade!



Flexible wall installation

The wall is composed of 2x2 plasterboard boards, 12,5 mm thick, installed on a steel frame construction. To fulfill the classification it is NOT mandatory to use the mineral wool inside the wall (mineral wool with density up to 60 kg/m³ can be used).The minimum thickness of the wall is 100 mm.

With subframe for flexible wall
The wall is made out of type F or type A (EN520) plasterboard - **EI 60 (ve i↔o)S**

With profile inserts
The wall is made out of type F (EN520) -**EI 90 (ve i↔o)S**
or type A (EN520) - EI 60 (ve i↔o)S plasterboard.

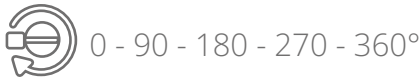


INSTALLATION



- ▼ PRODUCT OVERVIEW
- ▼ DIMENSIONS
- ▼ INSTALLATIONS
- ▼ ACTUATORS
- ▼ ACCESSORIES
- ▼ MAINTENANCE AND OPERATION

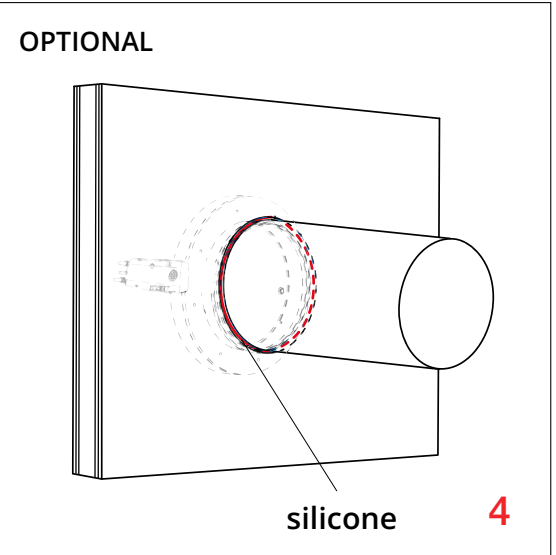
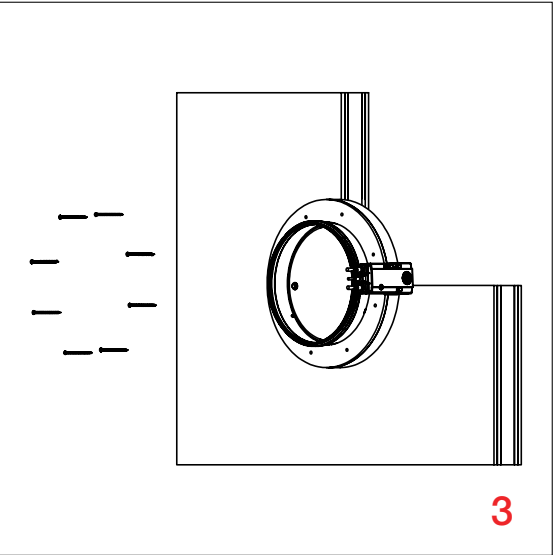
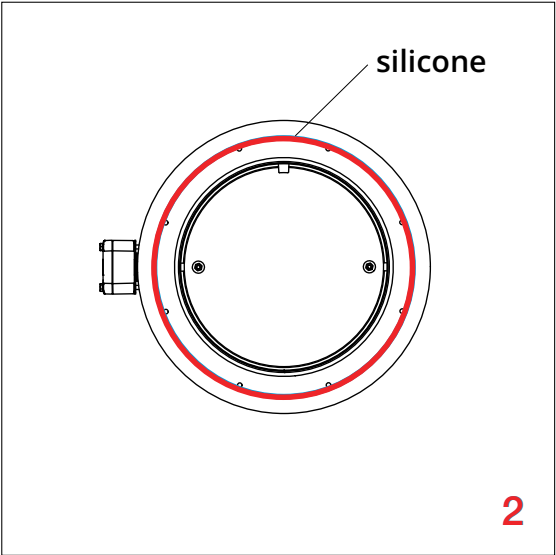
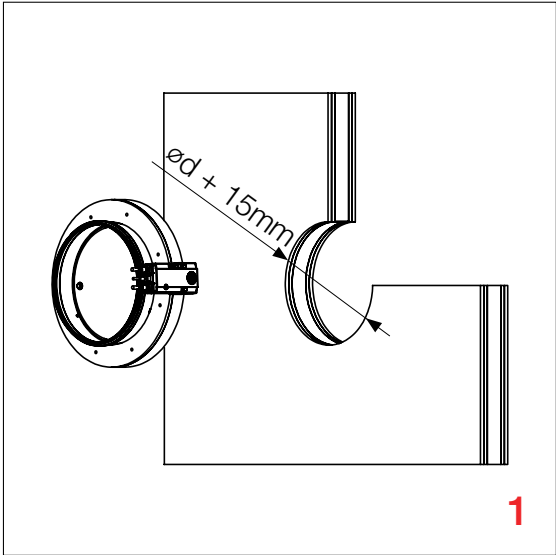
Possible damper orientations



Create subframe for instalation in flexibile wall!
(page 13.)

1. Create a wall opening.
2. Before installing the damper on the wall, it is necessary to apply a thin strip of silicone to the contact layer of calcium silicate.
*Use silicone resistant to elevated temperatures.
3. Insert fire damper into the wall and fasten with screws (8 pcs, 6x100 mm).
4. OPTIONAL Seal the gap on the oposite side of the wall with silicone resistant to elevated temperatures. NOTE! Fire dampers are tested and classified without the sealing on the opposite side of the wall. This sealing is for visual purposes only, and does not affect the performance of the fire damper.

Damper blade must be closed during installation!



Ferninstallation vom Boden/Decke

1. Schaffen Sie eine Öffnung in der Decke, die 85 mm größer ist als der Nenndurchmesser des Lüftungskanals.

2. Führen Sie die entsprechende Lüftungsleitung in die Öffnung ein und drücken Sie die 80 mm dicke U Protect Wired Mat 4.0 Wolle zwischen sie und die Öffnung. Die Breite des um den Lüftungskanal zu stopfenden Wollstücks sollte der Dicke der Decke entsprechen - 100 mm.

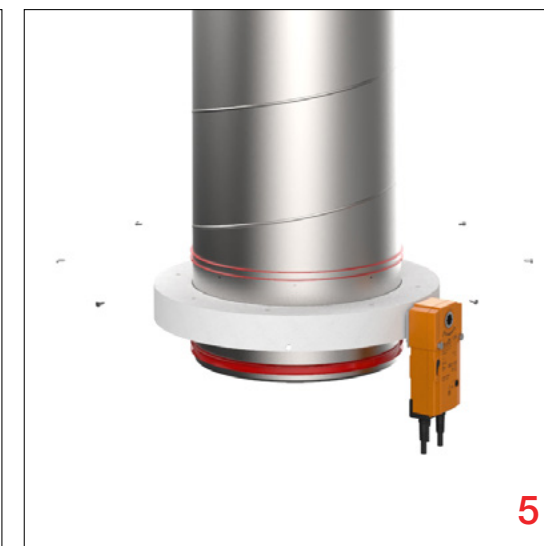
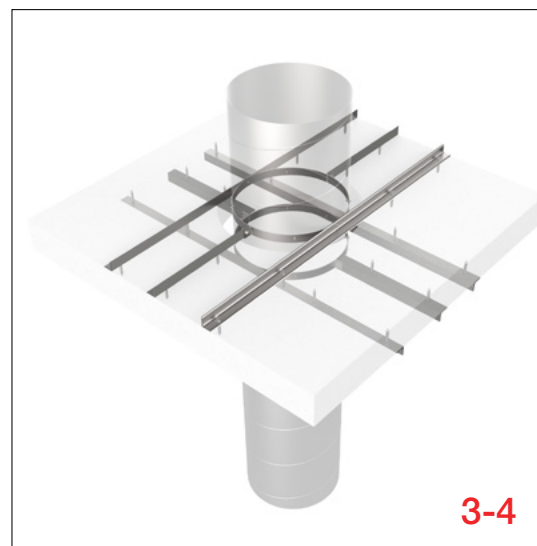
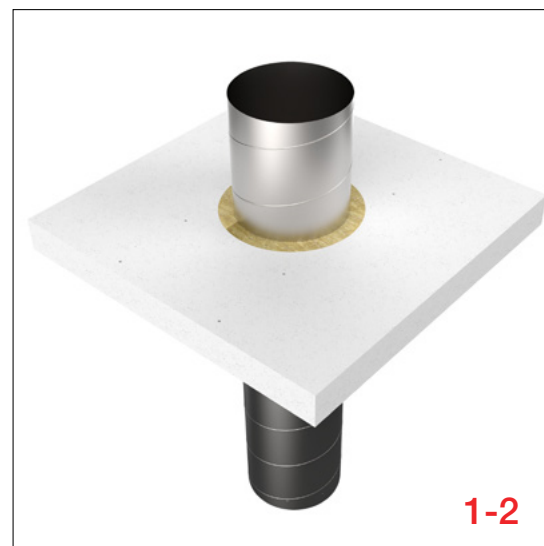
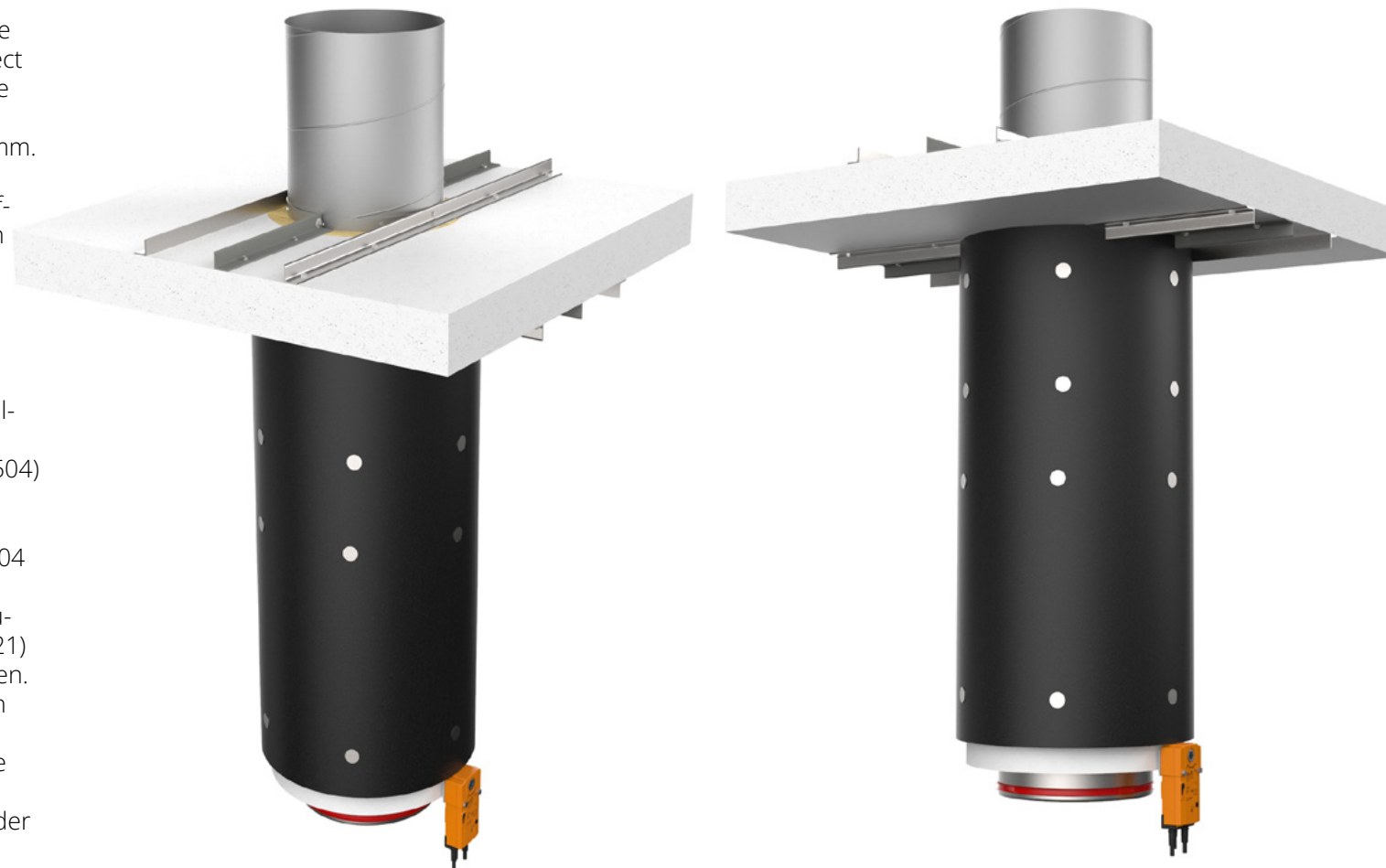
3. Beide Seiten der gepressten Wolle in der Deckenöffnung müssen mit ISOVER Protect BSF-Beschichtung in einer Breite von 50 mm um den Lüftungskanal herum beschichtet werden.

4. Der Lüftungskanal wird beidseitig mit Kanalschellen und Stahl-L-Profilen 30 x 30 x 3 mm an der Unterkonstruktion (Decke) befestigt. Die Enden des L-Profiles sollten ca. 350 mm von der Lüftungsleitung entfernt sein. Die Stahlschellen mit Blechschrauben 4,2 x 19 (DIN 7504) - 4 Stück alle 90° - an der Lüftungsleitung befestigen. Befestigen Sie die längeren L-Profile über eine Stahlschelle mit einer Blechschraube 4,2 x 19 - DIN7504 an der Lüftungsleitung. Die kürzeren L-Profile über Stahlklammern mit Schrauben M6 x 20 (DIN 933), Unterlegscheiben 6.4 (DIN 9021) und Muttern M6 (DIN 934) am Lüftungskanal befestigen. Die angegebenen L-Profile (kürzer und länger) mit den Schrauben 7 x 50 an der Decke befestigen. Hinweis: Hängen Sie den Lüftungskanal auf die gleiche Weise von unten ein, wobei die L-Profile und die Kanalstahlklammer um 90° gegenüber den Profilen auf der Oberseite gedreht sein müssen.

5. Die Brandschutzklappe E-FDC-DD wird in den vertikalen Lüftungskanal eingesetzt und zusätzlich mit selbstschneidenden Schrauben (8 Stück - DIN 7504 3,5 x 9,5 mm), die gleichmäßig über den Umfang verteilt sind, befestigt. Es ist darauf zu achten, dass das Klappenblatt beim Öffnen und Schließen nicht an den genannten Schrauben hängen bleibt.

6. Schneiden Sie zwei Stücke der U Protect U Wired Mat 4.0 Alu1 Wolle gemäß den nachstehenden Anweisungen zu. Umwickeln Sie den Lüftungskanal mit Wolle und verbinden Sie die Anschlüsse mit einem Draht. Die Verbindungen zwischen der Wolle und der Decke sowie zwischen der Wolle und dem Isolierrahmen der Brandschutzklappe E-FDC-DD müssen mit ISOVER BSK-Kleber bestrichen werden.

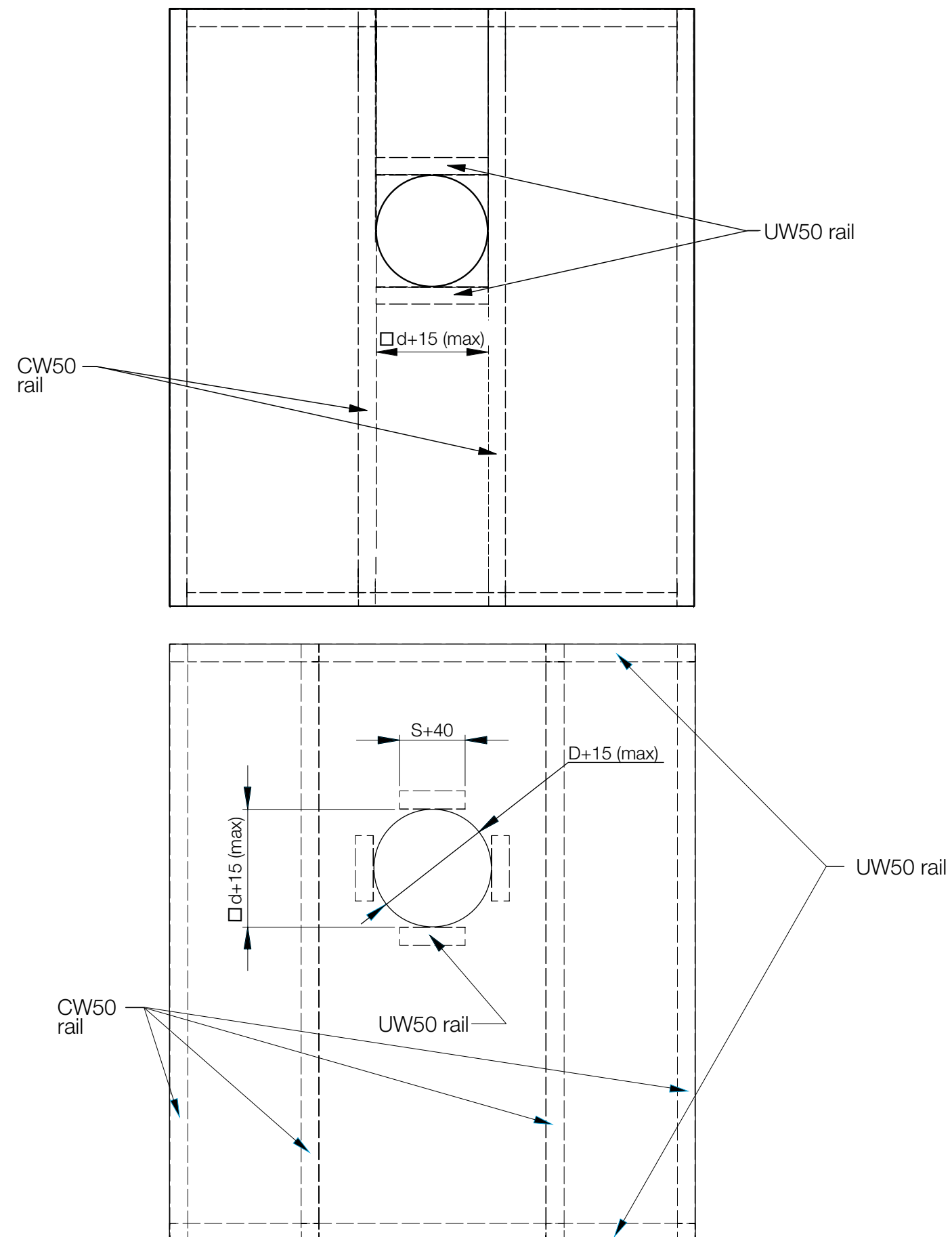
7. Schweißen Sie die entsprechenden Stifte für den Lüftungskanal durch die eingebrachte Wolle (6 Stück pro Umfang) gemäß den nachstehenden Anweisungen. Die Stifte sollten 90 mm von der Kante des Wollstücks entfernt sein.



- ▼ PRODUKTÜBERSICHT
- ▼ ABMESSUNGEN
- ▼ INSTALLATION
- ▼ ANTRIEBE
- ▼ KOMMUNIKATIONS MODULE
- ▼ ZUBEHÖR
- ▼ ERSETZUNGEN
- ▼ WARTUNG UND BETRIEB

FIRE DAMPER - E-FDC-DD

Installation with profiles inserts

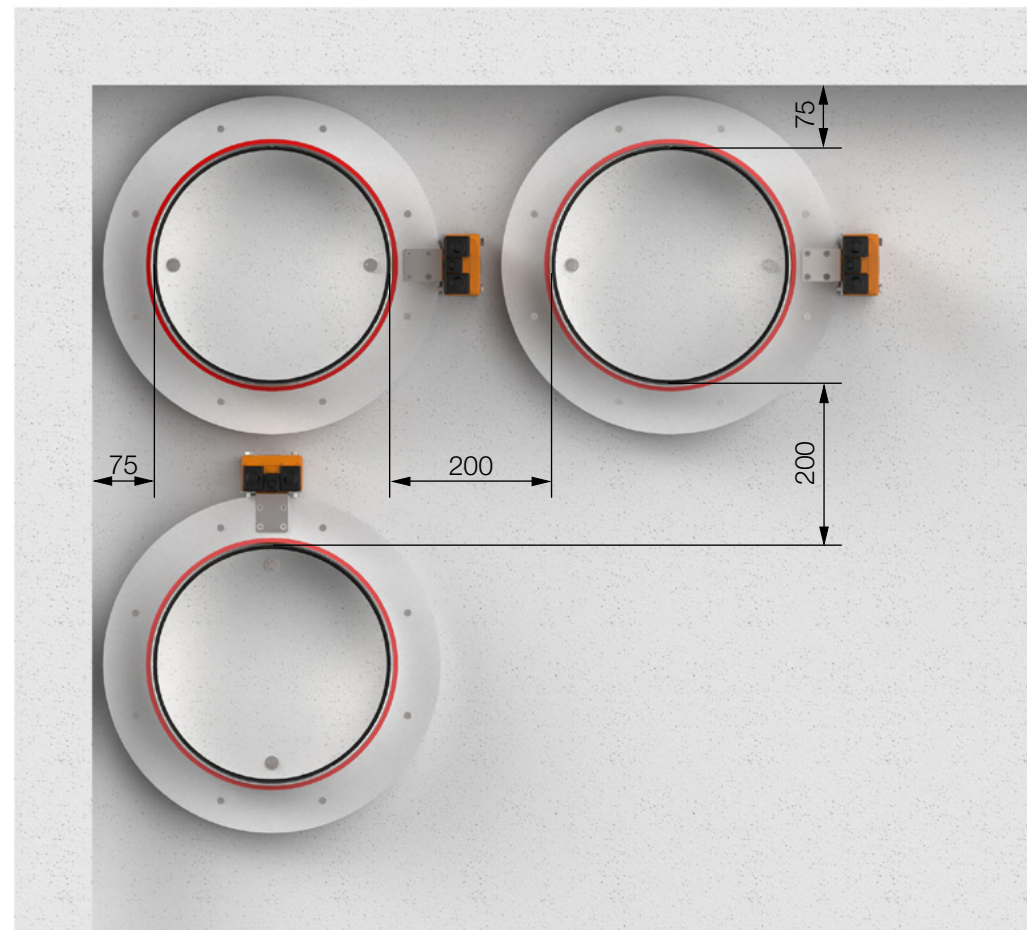


- ▼ PRODUCT OVERVIEW
- ▼ DIMENSIONS
- ▼ INSTALLATIONS
- ▼ ACTUATORS
- ▼ ACCESSORIES
- ▼ MAINTENANCE AND OPERATION



FIRE DAMPER - E-FDC-DD

Minimale Installationsabstände



*Mindestabstand von der Decke / Wand oder anderen Brandschutzklappen!

- ▼ PRODUKTÜBERSICHT
- ▼ ABMESSUNGEN
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- ▼ ANTRIEBE
- ▼ KOMMUNIKATIONS MODULE
- ▼ ZUBEHÖR
- ▼ ERSETZUNGEN
- ▼ WARTUNG UND BETRIEB

FIRE DAMPER - E-FDC-DD

ELECTRIC ACTUATOR

E-M24-S, E-M230-S, E-M24-S-ST

Damper is delivered in closed position. When electric actuator is connected to the power supply, damper blade will open. When the damper reaches the end position (damper open), the electro motor will stop. Closing fire damper takes place automatically when a power failure occurs. Thermal tripping device that comes with fire damper causes power circuit break at a temperature of 72 °C. If checking is needed for proper functioning of fire damper, pushing the switch on the thermal tripping device will close damper.

ACTUATORS

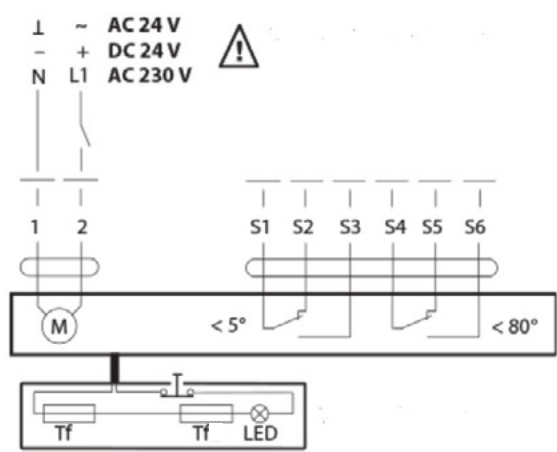
When switch on tripping device is released, the damper will open. Damper can be opened without connecting to a voltage with enclosed handle by turning it in the direction of the arrow on electric actuator (clockwise). Damper can be locked in the desired position by puling brake on Belimo BFL.

To unlock the electro motor, release brake for Belimo BFL. After release, damper will be closed by return spring. When damper is opened manually, electric actuator will not move the damper into closed position in case of power failure.

Technical specifications

Type of Belimo actuator		BFL24-T	BFL230-T
Nominal voltage / power consumption	voltage	AC/DC 24 V, 50/60 Hz	AC 230 V, 50/60 Hz
	opening	2,5 W	3,5 W
	holding	0,8 W	1,1 W
	for wire sizing	4 VA	6,5 VA
End switch		1 mA...3 A (0,5 A), DC 5 V...AC 250V	1 mA...3 A (0,5 A), DC 5 V...AC 250 V
Running time	motor	< 60 s	< 60 s
	spring return	~20 s	~20 s
Ambient temperature range		min. -30 °C, max. 50 °C	

Wiring diagram

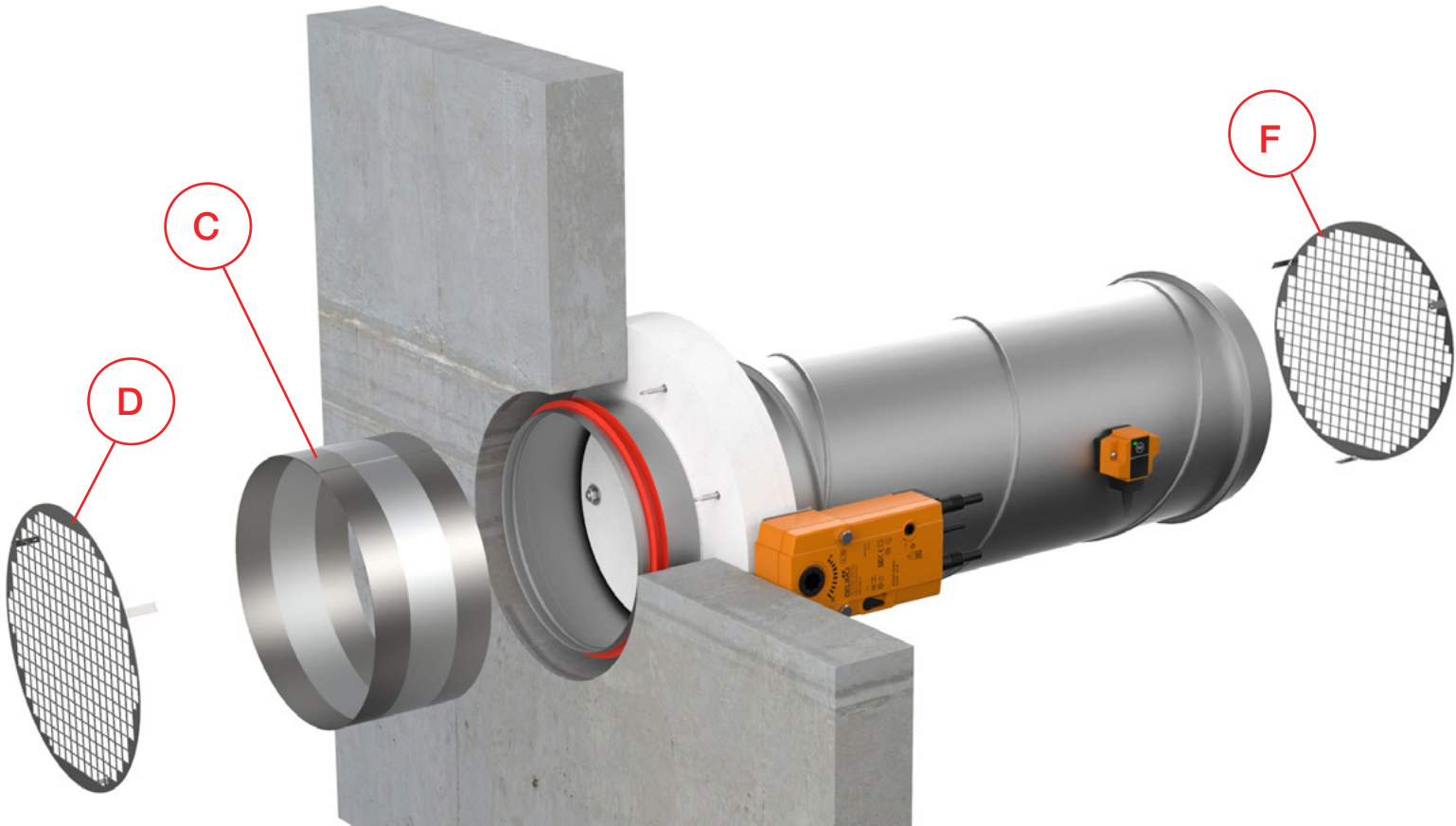


- PRODUCT OVERVIEW
- DIMENSIONS
- INSTALLATIONS
- ACTUATORS
- ACCESSORIES
- MAINTENANCE AND OPERATION

ACCESSORIES

C Flexible duct connections - Flexible duct connectors are used in HVAC systems for isolation from structure-borne noise, expansion compensation and fire damper connections (total length 150mm, flexible 60mm).

D/E Safety grilles - Fire damper, safety grille and, if applicable, extension piece are assembled at the factory to form a unit. The free cross sectional area of the cover grille is approx. 70%.



(1) Type (2) Accessories (3) Dimension

E-FD-A - FLEX - d100

- | | | | |
|-----|--|-----|---|
| (1) | E-FD-A - Accessories for round fire damper | (3) | d100.. d630 nominal diameter of the round fire damper |
| (2) | FLEX - Flexible duct connections (1pc) C | | |
| | SG1 - Safety grill on operation side E | | |
| | SG2 - Safety grill on installation side D | | |

- PRODUCT OVERVIEW
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+ ACCESSORIES

- For safety reasons, parts need to be changed by a trained personnel or the manufacturer.
- WARNING! Install the original parts only!

A Communication module bracket FD-A-CMB
B Belimo thermal fuse 72 °C FD-A-BAT72
Drill hole (ø16 mm) for the fuse of Belimo mechanism and fix it with self-tapping screws.





- ▼ PRODUCT OVERVIEW
- ▼ DIMENSIONS
- ▼ INSTALLATIONS
- ▼ ACTUATORS
- ▼ ACCESSORIES
- ▼ MAINTENANCE AND OPERATION



MAINTENANCE

TRANSPORT

After arrival, check the fire damper for transport damage and shortcomings. In case of any damage or shortcomings, immediately contact your supplier.

STORAGE

If the damper is not installed immediately:

- Remove any wrapping.
- Protect fire damper from dust and contamination.
- Do not expose the fire damper to the effects of weather - store fire damper in dry place.
- Do not store the unit below -20 °C or above 50 °C.

Please properly dispose of packaging material.

MAINTENANCE AND OPERATION

Fire dampers are designed with fully enclosed drive mechanism outside of the duct and as such do not require cleaning and regular maintenance.

However, activation mechanism should be inspected for proper operation on regular basis.

- Provide at least one annual check of the damper
- After each intervention, provide a systematic cleaning of dust
- Check if the electrical terminals are tightened
- Cleaning instruction: clean with a sponge, with water or a mild detergent
- Disinfection instruction: spray disinfectant (disinfectant may contain alcohol which is flammable, take precaution to avoid ignition)

It is not permitted to alter the dampers in any way nor perform any changes to their structure (except for the service procedures described in this manual) without the manufacturer's consent. Provide at least one annual check of the damper. The functional test must be carried out in compliance with the basic maintenance principles of the European norms EN 13306, EN 15423 and EN15650.

COMMISSIONING

- Carefully unpack E-FDC-DD fire damper - be careful of sharp edges and do not use excessive force for unpacking
- Inspect the fire damper - check the fire damper for damage
- Installation of the fire damper - according to the installation instructions (page 7.)
- Before commissioning: check the fire damper functions.

FUNCTIONS

- Release mechanism:
Damper blade can be closed and opened manually
- Electric actuator:
Signal testing - the damper blade must close/open

ECONOX

FIRE DAMPER - E-FDC-DD