# ThermShield Remote Installation Method

## Contents



## Applies to...

- Actionair ThermShield FD
- Actionair ThermShield FD-C

## Health and safety

- This process must be undertaken by competent persons. More than one person may be required to ensure the safe handling of large dampers and other materials. Use must be made of access equipment to ensure unsafe practices are not used to approach walls or difficult access areas.
- Standard site PPE should be used (minimum steel toe cap boots, hard hat); together with any protective eyewear, gloves and masks, when drilling or cutting is being undertaken. The latter should also be used when handing the wall construction materials, as defined by the material suppliers. If loud equipment is being used, hearing protection should be used.
- All waste materials should be collected and disposed of as defined by the relevant supplier.
- Actuators: All wiring should be carried out in accordance with the wiring details provided by the IEE and BS regulations and by a competent person. Care must be taken when installing and inspecting dampers, as they are likely to close without warning due to loss of electrical power or a temperature rise in the ductwork. This is their prime function. Do not insert any items, fingers or limbs between the blades. Larger dampers must be handled in accordance with current regulations and good

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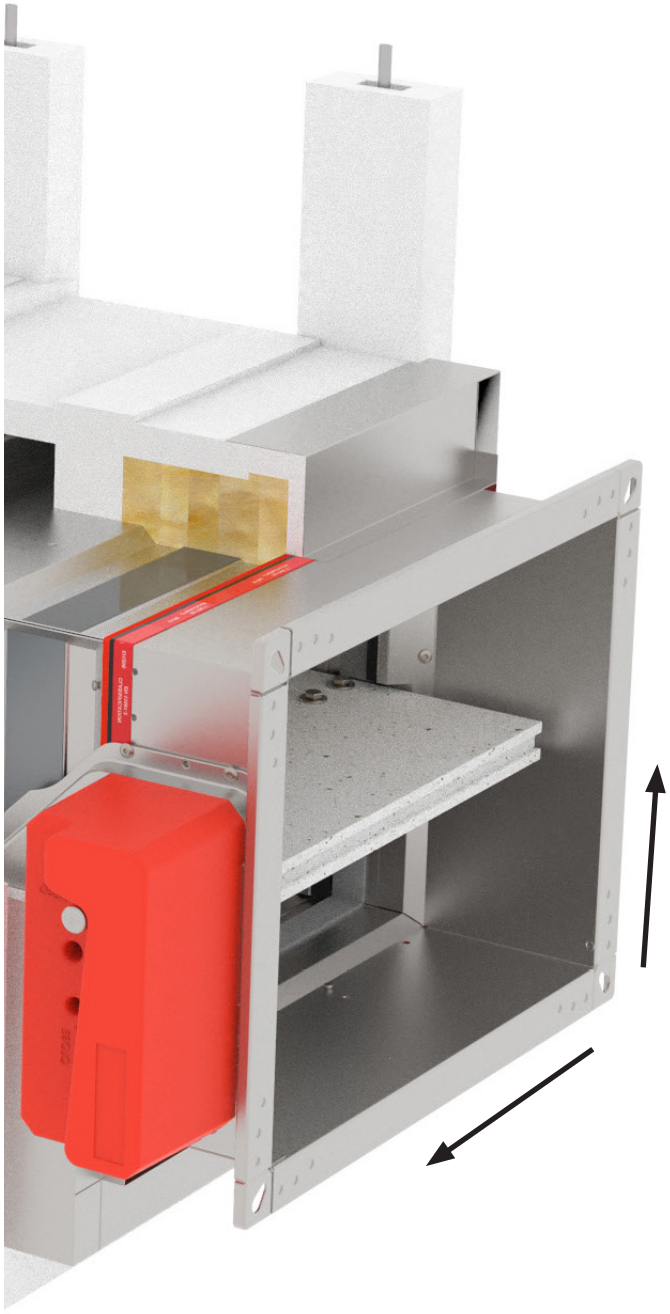
# CE Installation Method Overview

| Application | Installation Method |
|---|---|
| **Installation remote from the rigid wall (Promat) (square)** | **Page 4** |
| **Installation remote from flexible/rigid wall (square)** | **Page 6** |
| **Installation remote from flexible wall (circular)** | **Page 10** |

- For full classifications please refer to our Declaration of Performance (DoP), which can be found on our website.
- The methods in this manual should be followed to ensure a CE-marked installation.
- The instructions are based on the tested method using Actionair ThermShield PTC fire dampers.
- Our ThermShield dampers are designed to be used with fire separating elements to maintain fire compartments. The ThermShield is an actuated failsafe close damper with low smoke leakage.
- Under the Fire Damper Product standard BS EN 15650 our Fire Damper products are tested to BS EN 1366-2 and classified under BS EN 13501-3.

# Fire damper installation square openings



The FD25 / 40 fire damper is always tested in supporting constructions in accordance with EN 1366-2: 2015 table 3/4/5. 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 of the tests.

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 to a flexible connection on either end of the damper.

The damper can be installed on either side of the wall, however it needs to be placed so as to ensure easy access during inspection.

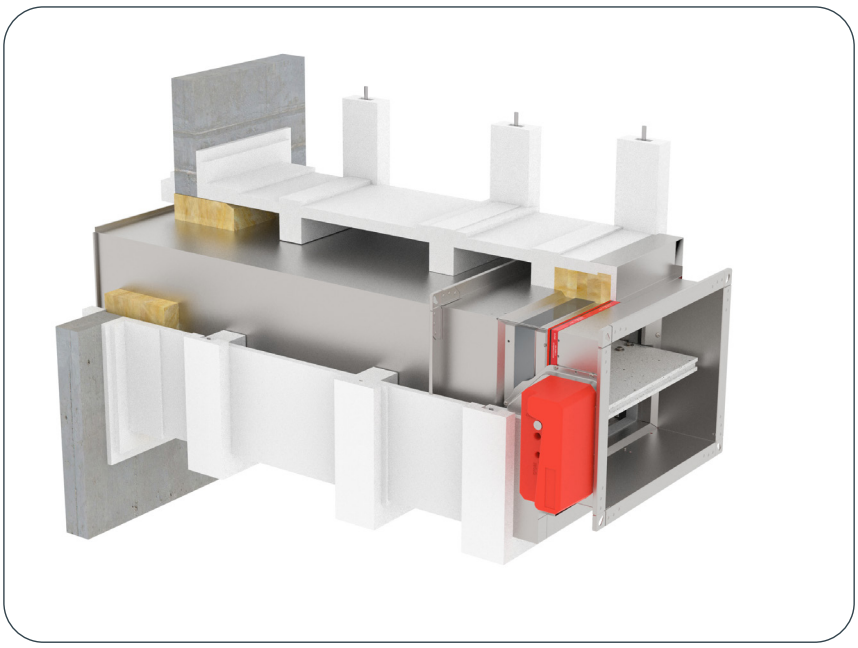
- The installation must comply with the tests that were performed during certification
- Avoid any obstruction of the moving blade by the connected ducts
- The class of air-tightness is maintained in case the installation of the damper is made in accordance with the technical manual
- General operating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

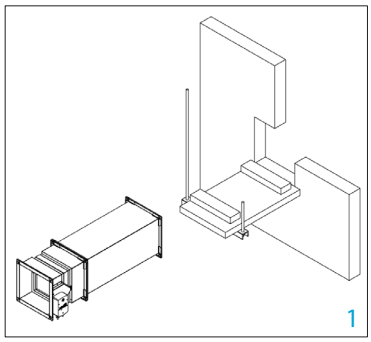
Dampers installed remote from wall must be fitted with the blade in the horizontal axis.

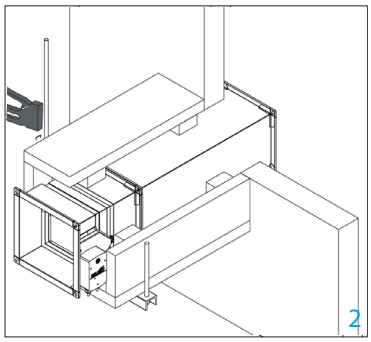
Axis of rotation is not permitted (i.e. blades vertical) for this application. The fire damper must be installed into a fire partition structure in such a way that the damper blade in its closed position is located inside this structure.

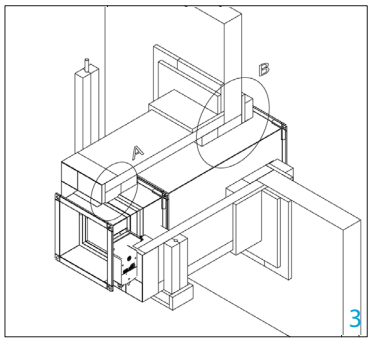
To help you find the suspension plane, a bendable fixing bracket is provided on the damper body and the red tape is placed on the casing to mark the location of the wall limit (distance from wall limit to the end of fire damper is 125mm). This does not apply for Applique / MF2 kit installations.

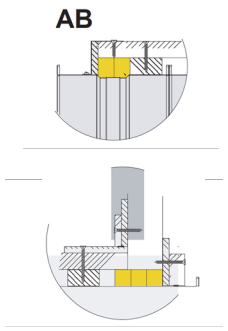
Check the operation of the fire damper before commencing the installation!






# Installation remote from the rigid wall (Promat)

Damper blade must be closed during 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 only possible with ThermShield FD40.**

Prepare wall opening B (H) + 100 mm. Place fire damper and duct on pre-cut calcium silicate 52 mm (Promat L500). 100 mm wide supports (max. every 1000 mm) from same material need to be used to support the duct as well as the damper.

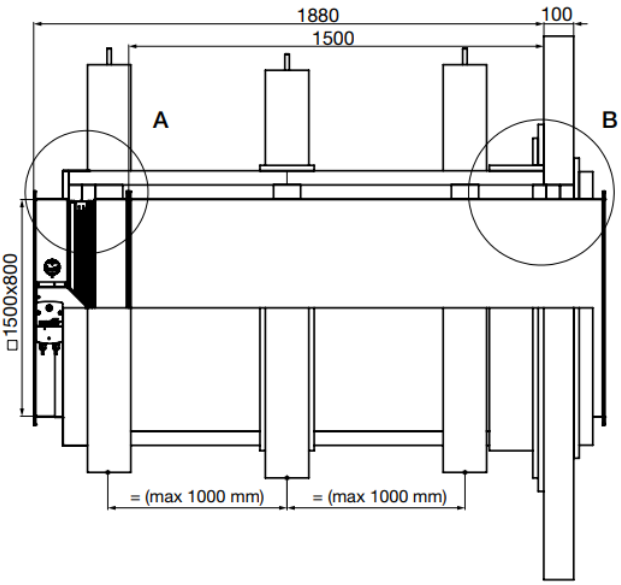
Fit the duct and the damper through the wall, and cover them with 52 mm calcium silicate (Promat L500). Board corner joints must be glued with glue PROMAT K84 and connected with staples every 100 mm.

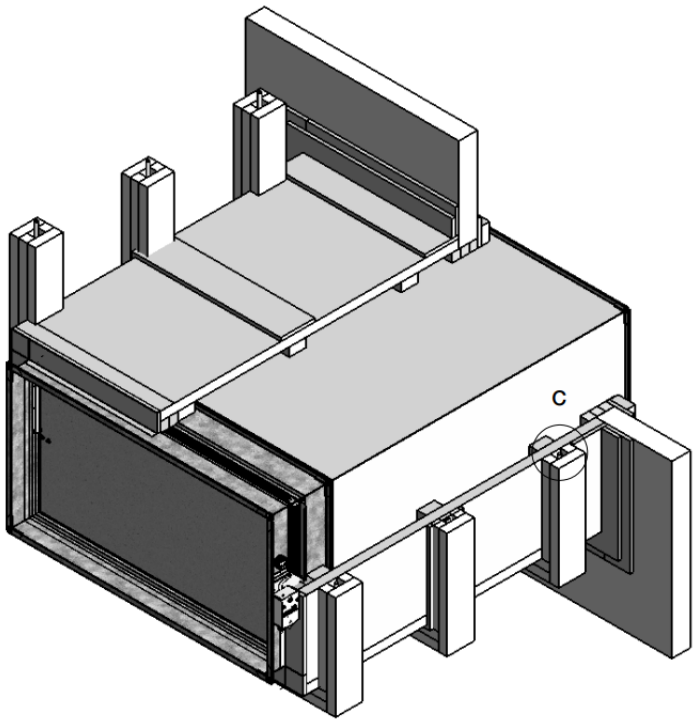
The gap between the damper and the wall must be filled with mineral wool (density 140 kg/m³ or more). Close the mineral wool with Promatect H plates 20 mm thick. Duct and damper supporting brackets have to be insulated with 52 and 20 mm calcium silicate boards (Promatect H and L500).

Ensure that the damper is sufficiently supported.

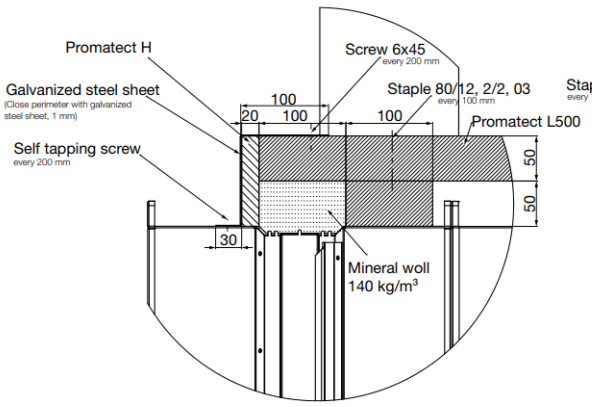
Test the operation of the damper blade!

# Installation remote from the rigid wall (Promat) Drawings

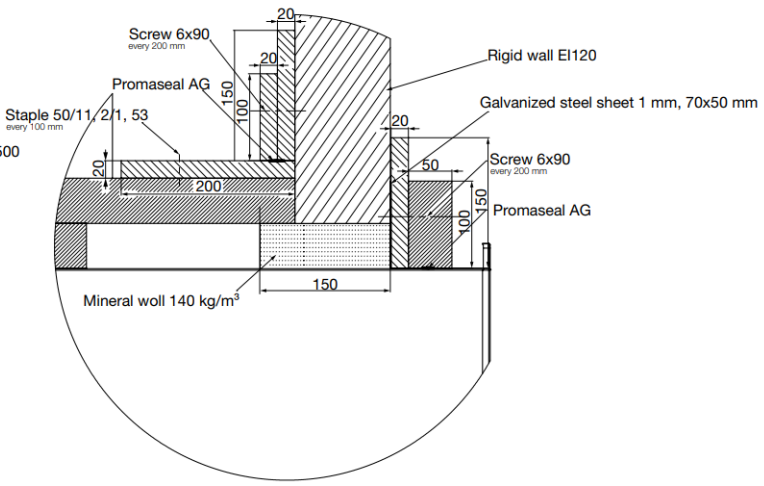



DETAIL A




DETAIL B

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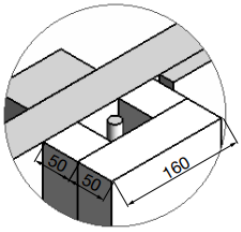
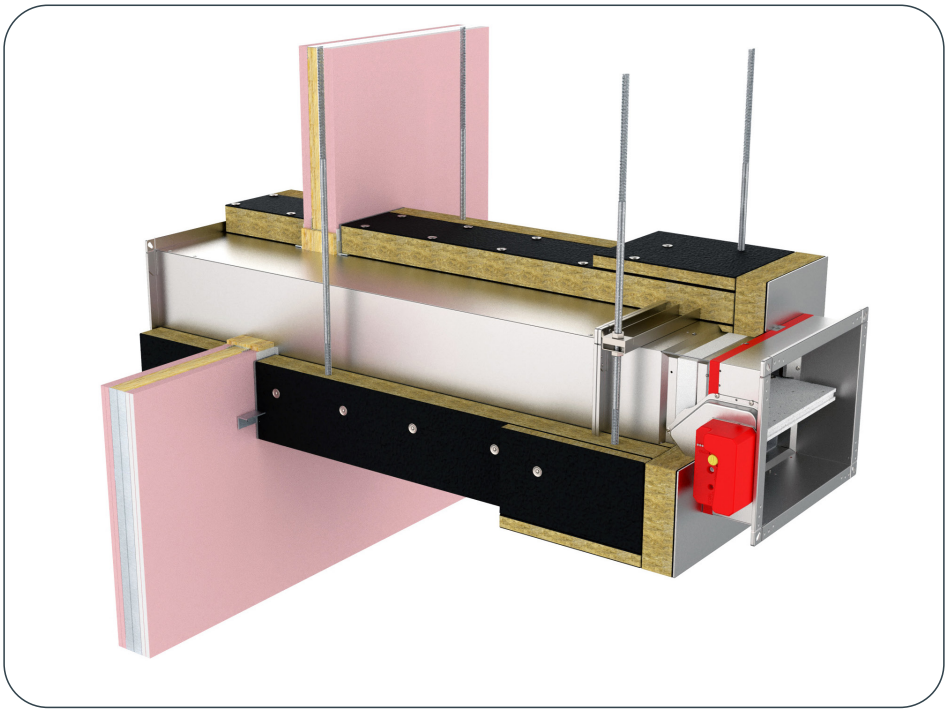
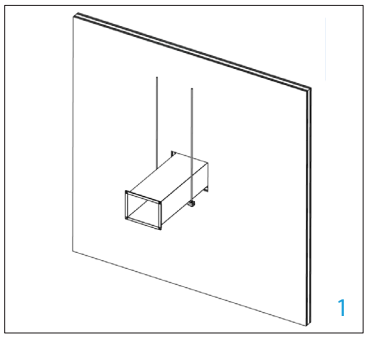
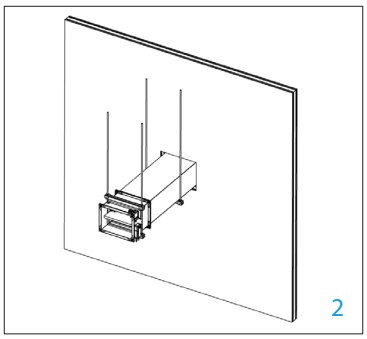
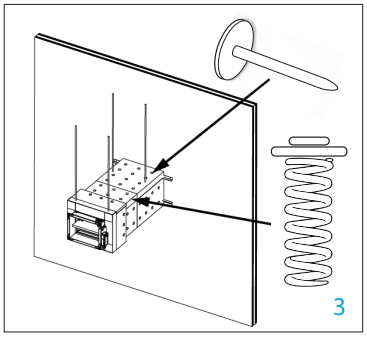
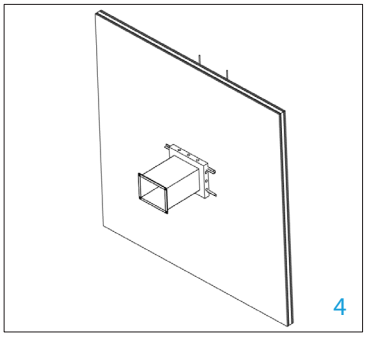







# Installation remote from flexible/rigid wall

Damper blade must be closed during installation!

The wall is composed of 2x2 plasterboard boards,12.5 mm thick, installed on a steel 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).

RIgid wall: 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.

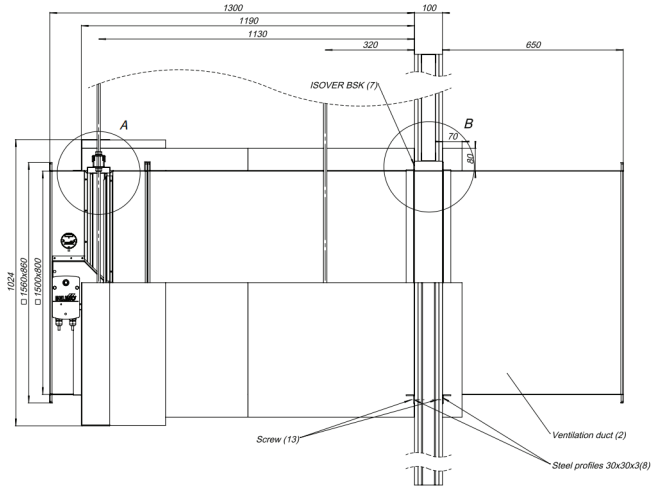
### Installation possible with ThermShield FD25 & FD40

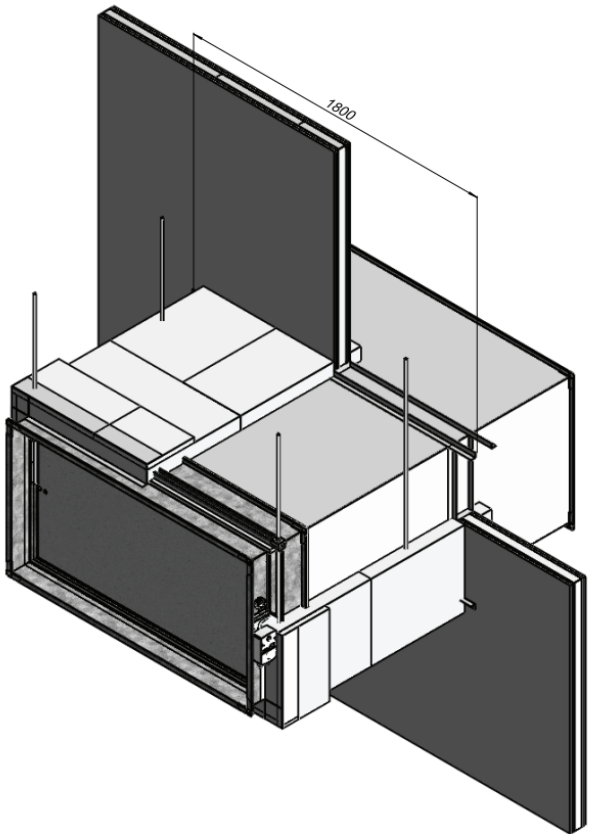
1. Place the damper in an opening (B + 80) x (H + 80). Place ventilation duct trough wall. Distance between suspensions is max. 800 mm (thickness of threaded rod for suspension should be M12 or more.
2. Install fire damper and secure it to ventilation duct. Fill space between duct and wall with mineral wool (Isover U protect). Additionally, paint wool with Isover BSF in thickness of 1 mm.
3. Close installation with L profiles 30x30x3mm. Additionally fix the L profiles to duct with steel rivets / screws, and secure to the wall with 4,5x50 screws at 200 mm centers. At the connection between the stone wool & wall apply Isover BSK glue at a thickness of 2 mm. Repeat the same procedure on the other side.
4. Secure the stone wool with welding nails. Nails are placed 60 mm from the end of the plate and then at 150 mm centers. Isover Fire Protect screws are required on the corners at every 150 mm. Place a steel protection plate (110x100x1.2mm mild steel - by others) where insulation on the damper ends to cover the exposed edge. The stone wool slabs on ventilation duct should be secure with welding nails.

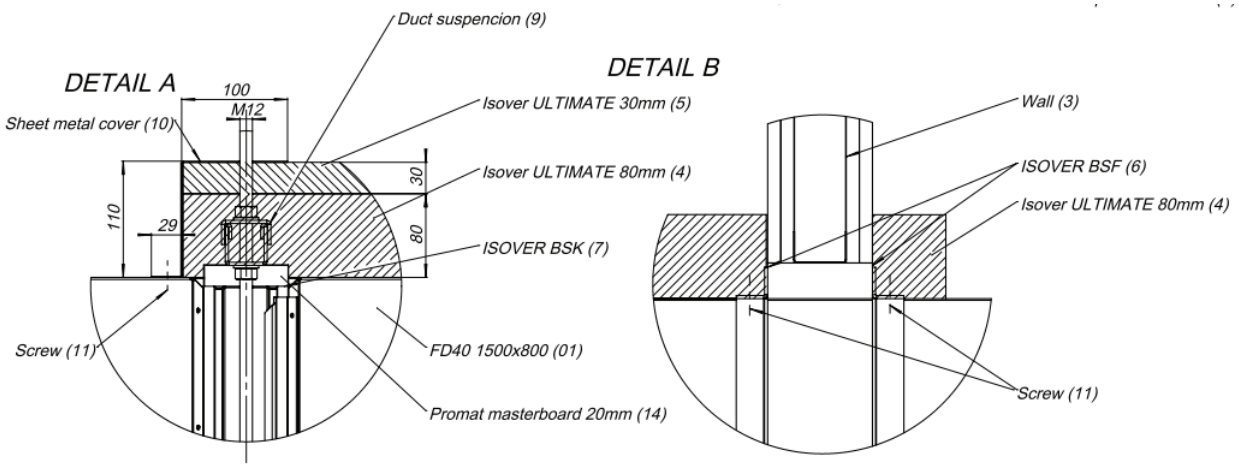
Ensure that the damper is sufficiently supported.

Test the operation of the damper blade!

# Installation remote from flexible/rigid wall Drawings



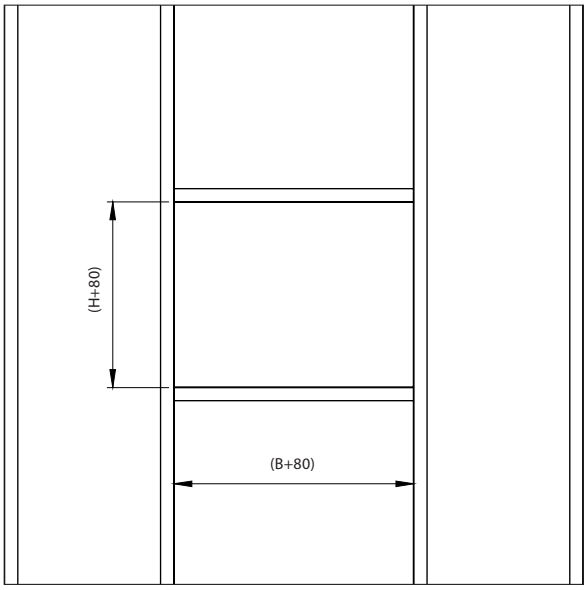



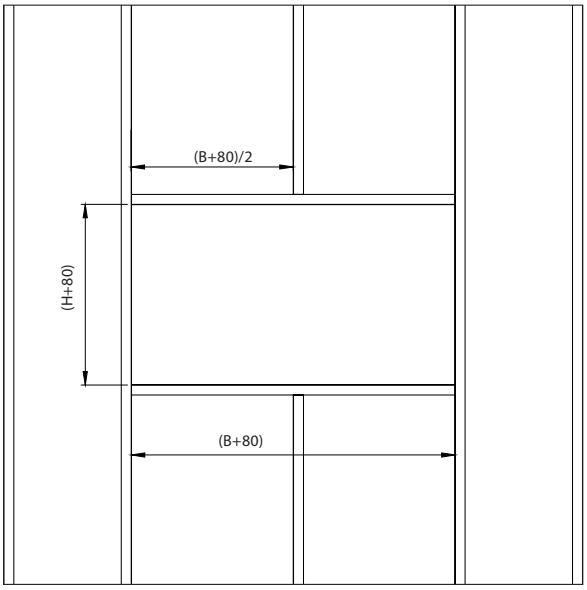
## Flexible Wall Subframe

When installing the fire dampers in the flexible walls it is necessary to make a metal subframe onto which the damper will be fixed with screws. Subframe should be prepared according to the drawings below.

FD25




FD40





# Fire damper installation circular openings

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 to 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 so that it ensures an easy access during inspection.

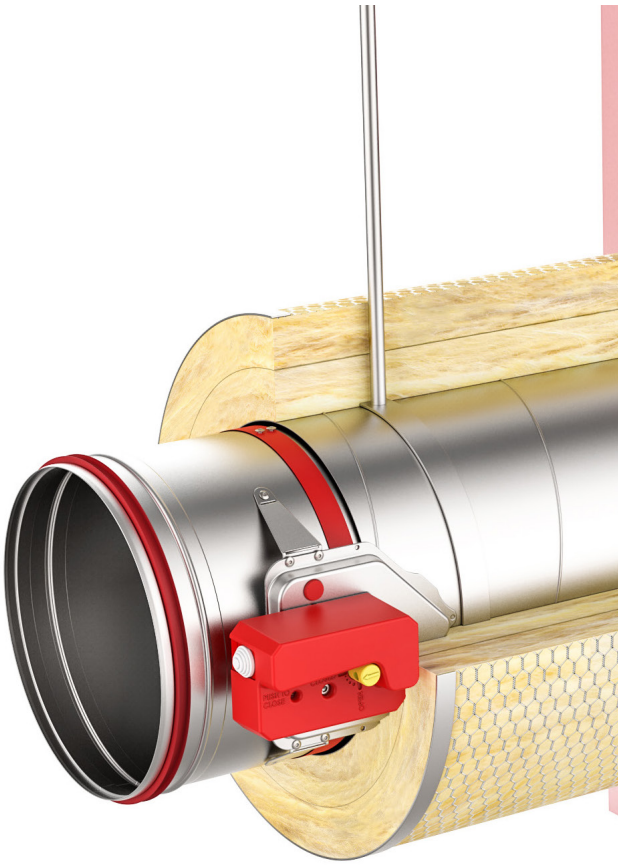
The installation must comply with the tests that were performed during certification

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

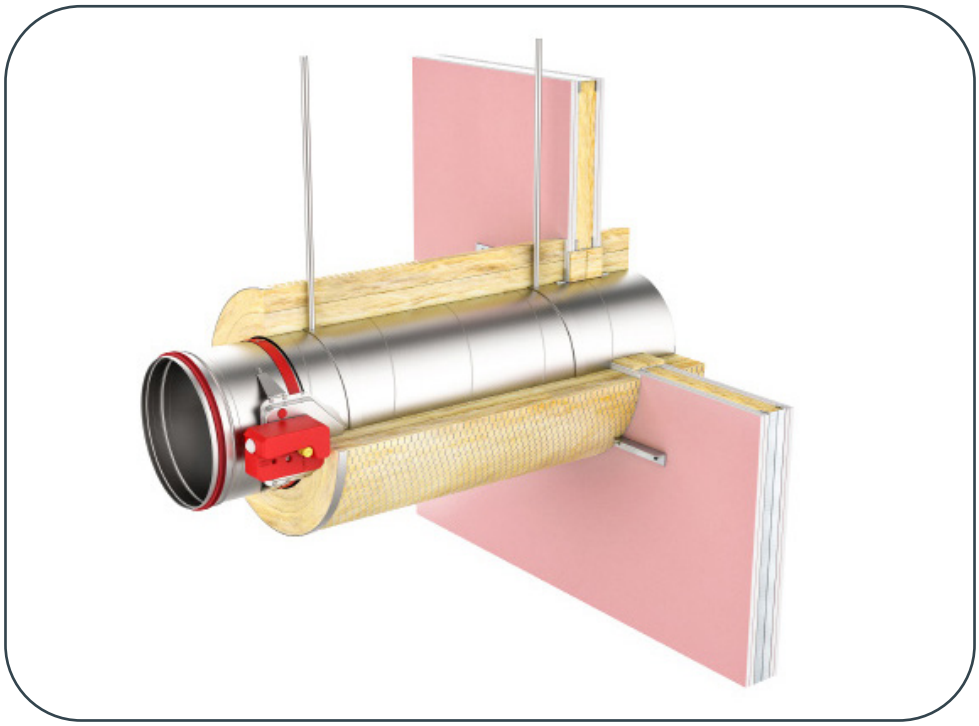
General operating temperature: 50 °C max.

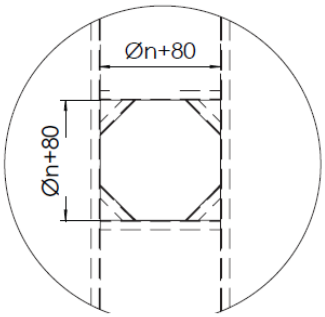
For indoor use only

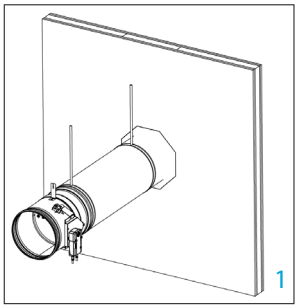


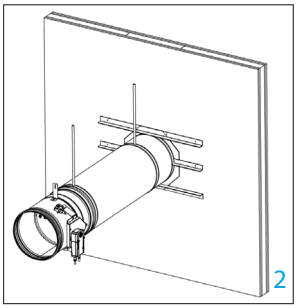
Damper installed remote from wall must be fitted with the blade in the horizontal axis.

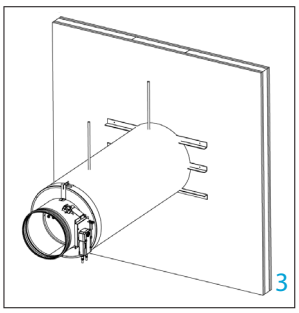
Axis of rotation is not permitted (i.e. blades vertical) for this application.






# Installation remote from flexible/rigid wall

Damper blade must be closed during installation!

Flexible wall: 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.

Rigid wall: 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.

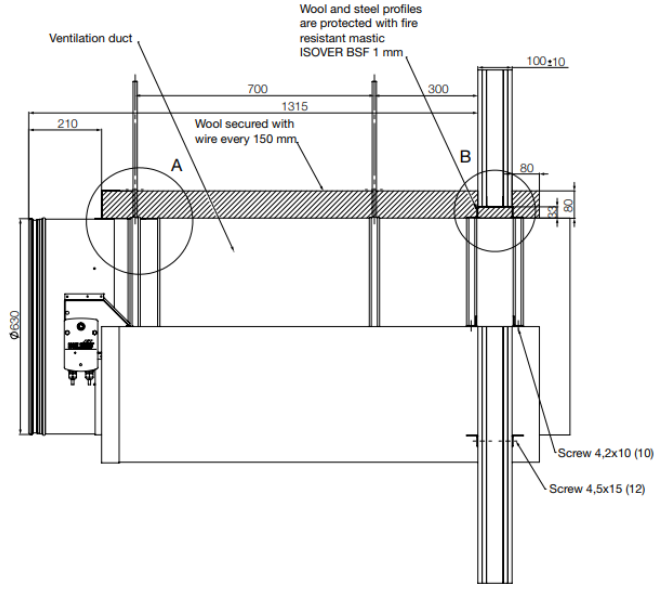
**Installation possible with ThermShield FD25 & FD40**

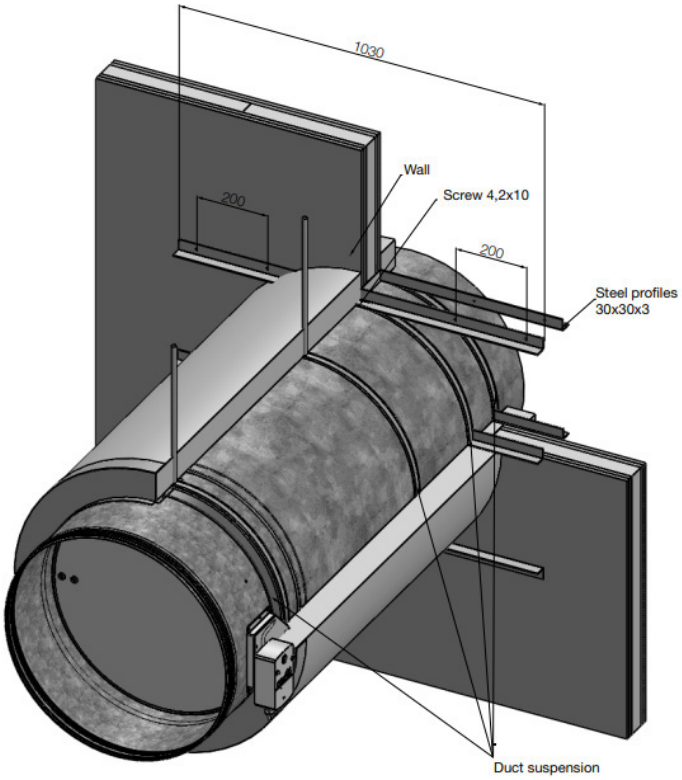
1. Place the damper in an opening according to the picture. Place ventilation duct trough wall (thickness of threaded rod for suspension should be M12 or more
2. Install fire damper and secure it with self-tapping screws 4,3x10 to duct (every 300 mm). Fill space between duct and wall with mineral wool (Isover U protect, min. 80 mm thickness). Additionally paint wool with Isover BSF in thickness of 1 mm
3. Close installation with L profiles 30x30x3 mm. Additionally fix profiles to duct with self-tapping screws, and screw them to wall with 4,5x50 screws with 200 mm distance between them. On connection wool-wall apply glue Isover BSK in thickness of 2 mm. Repeat the same procedure on the other side. Place the wool on ventilation duct in length of 80 mm
4. Place steel protection on place where insulation on damper ends (80x80 mm, 1 mm thick metal sheet cover).

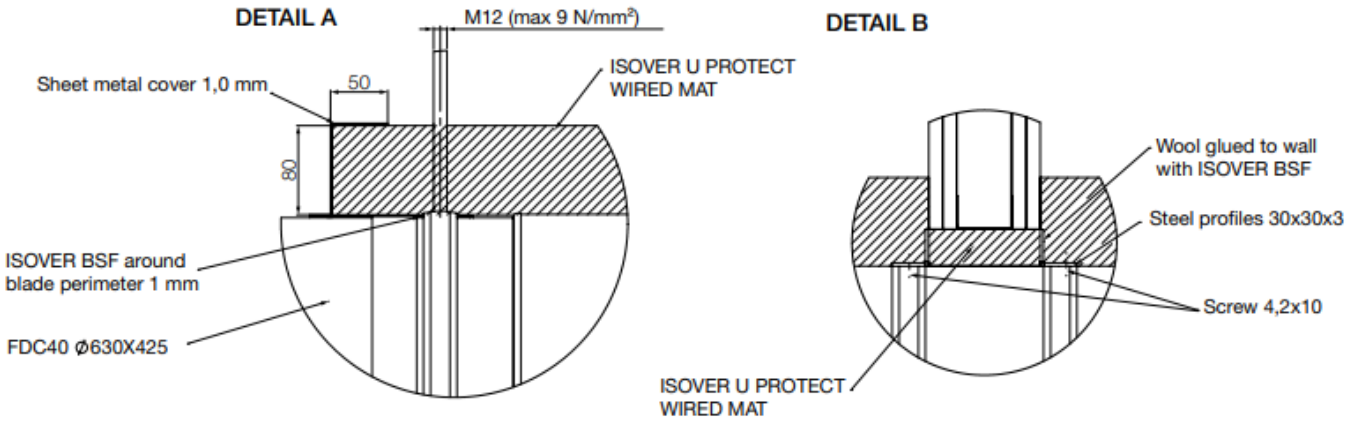
Ensure that the damper is sufficiently supported.

Test the operation of the damper blade!

# Installation remote from flexible/rigid wall Drawings



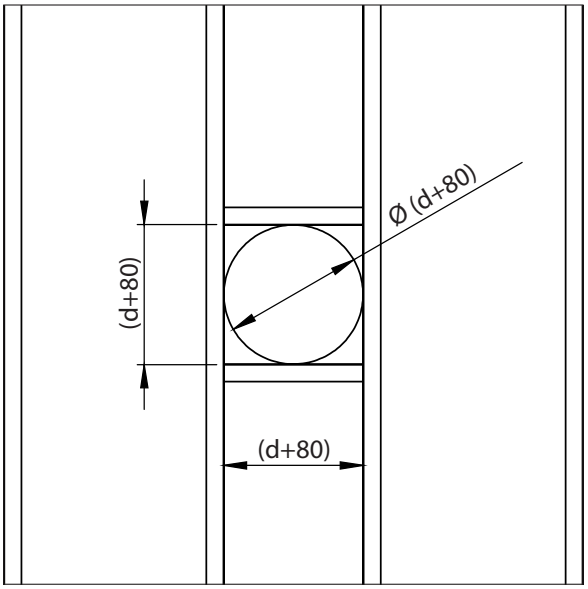



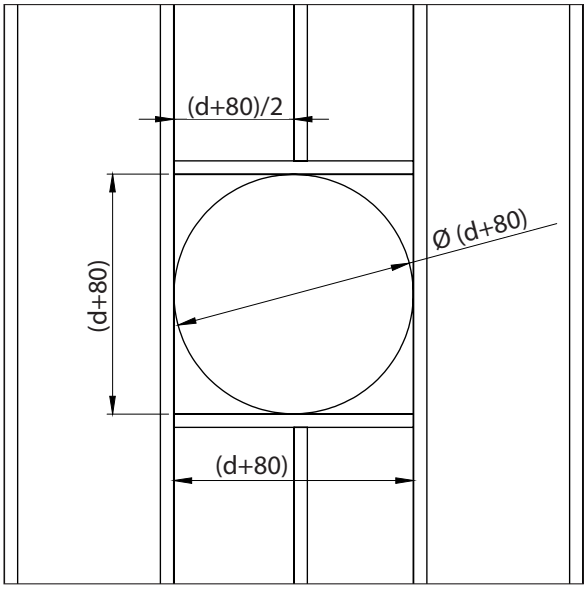
## Flexible Wall Subframe

When installing the fire dampers in the flexible walls it is necessary to make a metal subframe onto which the damper will be fixed with screws. Subframe should be prepared according to the drawings below.

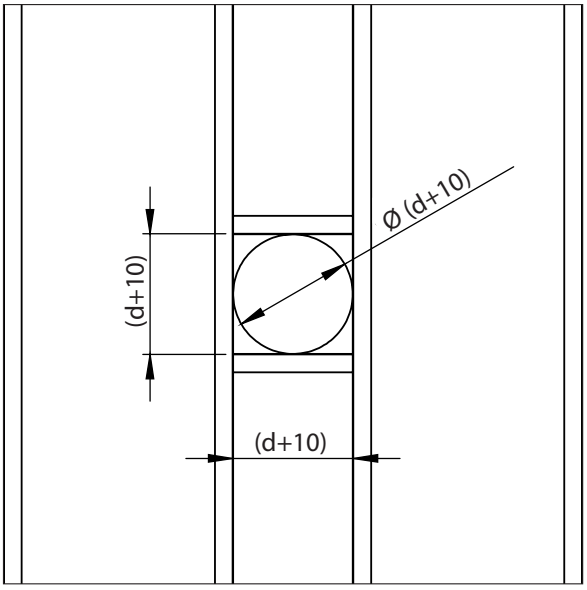
FDC25



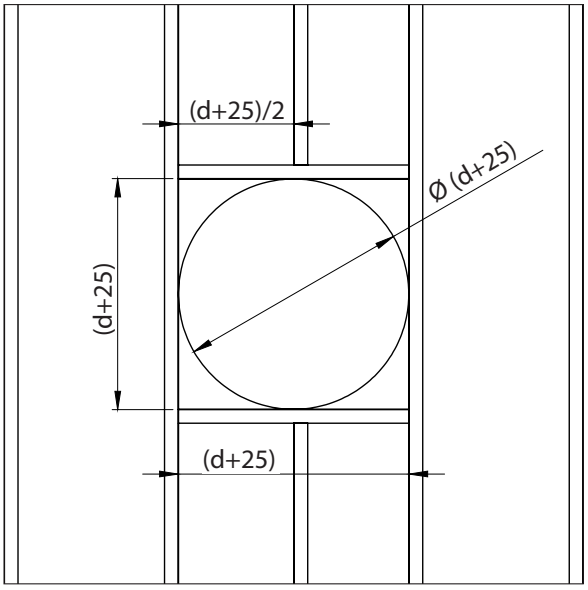

FDC40




FDC25-MF1




FDC40-MF2





# Periodic Maintenance

## Manufacturer Recommended Service Intervals

- After commissioning and handover (see DW145 check sheet), in order to remain compliant with 15650:2010, we recommend that you follow a regular service and inspection programme to ensure correct operation of dampers in the event the damper is required to actuate.
- In addition to regular physical inspections (in accordance with 15650:2010) we recommend using a dedicated damper control panel with a digital reporting mechanism (such as an Actionpac LNS system) to frequently monitor and report on regular remote damper testing.
- Ensure maintenance is performed in line with the latest best practice and relevant local or specialist guidance.
- Our recommended service intervals for life safety products are as follows:

| Interval | Action | Competence |
|---|---|---|
| 6 Months | Check Actuator Wiring (if applicable) for Damage | Specialist Persons |
| 6 Months | Check Limit Switch Wiring (if applicable) for Damage | Specialist Persons |
| 6 Months | Check Damper Cleanliness, Clean and Lubricate if necessary. | Specialist Persons |
| 6 Months | Check Condition of Blades and Seals, report and rectify if necessary. | Specialist Persons |
| 6 Months | Check for blade obstructions | Specialist Persons |
| 6 Months | Check Damper Release Mechanism (through activation or release of the ETR or Thermal Fuse Device) | Specialist Persons |
| 6 Months | Check damper is left in normal operational position after inspection. | Specialist Persons |
| Monthly | Complete actuation of damper from control panel (if installed) and check all faults. Consult specialist persons to investigate any reported faults. | Facility Manager |

- *Specialist Persons: A recognised and experienced person with prior experience in the inspection and assessment of the functional safety of smoke and fire damper products. If in doubt, please consult with our technical support team for advice. To talk about our OEM maintenance inspections, contact our nationwide service team.

## BS EN 15650:2010 - Ventilation for Buildings

- Fire Dampers

- Section 8.3 states regular testing/ inspection should be undertaken to meet regulatory requirements, or at intervals not exceeding six months.
- A comprehensive example of the maintenance procedure is given in Annex D of the standard. Some automatic systems may allow more frequent testing (48hr or less) and this may be required by a national standard.

## Approved Document B, Volume 2

- Clause 10.12 states adequate means of access must be provided to allow inspection, testing and maintenance of both fire damper and its actuating mechanism.

## BS 9999:2017 - Code of Practice for the Fire Safety in the Design, Management and Use of Buildings - Annex I

Smoke Control Systems

- For means of escape states actuation of the system should be simulated once a week. It should be ensured that any fans and powered exhaust ventilators operate correctly, smoke dampers close (or open in some systems), natural exhaust ventilators open, automatic smoke curtains move into position, etc.

Three Monthly

- In addition to the checks recommended in V.2, V.3 and V.4, the actuation of all smoke control systems should be simulated once every three months. All zones should be separately tested and it should be ensured that any fans and powered exhaust ventilators operate correctly, smoke dampers close (or open in some systems) etc.

Yearly

- In addition to the following checks should be made for annual inspections and tests of the following to be carried out by competent persons, for any defects to be logged and the necessary action taken, and for certificates of testing to be obtained.
  - Fire detection and fire alarm systems;
  - Self-contained luminaires with sealed batteries, if more than 3 years old;
  - Sprinkler, drencher and watermist systems;
  - Smoke ventilators and smoke control systems;
  - Fire dampers

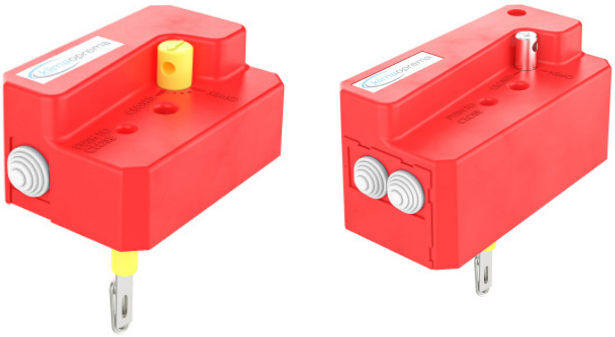
## BS 9999:2017 - Code of Practice for the Fire Safety in the Design, Management and Use of Buildings - Annex W

- Maintenance of air conditioning and ventilation equipment including air filters, motors, fire dampers and their controls, smoke detectors and alarms is of paramount importance both in preventing fire and in ensuring that measures taken to mitigate its consequences are effective when needed. Arrangements should be made for all fire dampers to be tested by a competent person on completion of the installation and at regular intervals not exceeding 12 months. They are to be repaired or replaced immediately if found to be faulty. Spring operated fire dampers should be tested annually and fire dampers in dust laden and similar atmospheres should be tested much more frequently, at periods suited to the degree of pollution.

# Actuators

## Manual Actuators R, R-S

Manual operating mechanism, optionally with end switches (R-S). In case of fire, the fire damper closes automatically. Damper closing can be initiated either by thermal fuse melting, or by manual activation on the operating mechanism. Upon closure, damper blade is locked in closed position and can only be opened manually. Thermal fuse melting point is 72 °C.



### R25

R25 (left) manual actuator is installed on FD25 fire dampers range from 100x200 to 800x600. It is available in version with (R-S) and without (R) end switches. End switches and thermal fuse are easily replaceable and available as service parts.

### R40

R40 (right) manual actuator is installed on FD40 fire dampers from 800x600 to 1500x800. It is available in version with (R-S) and without (R) end switches. End switches and thermal fuse are easily replaceable and available as service parts.

## Technical Specifications

| | |
|---|---|
| Nominal voltage | N/A |
| Power | N/A |
| Switching capacity | 1mA…500mA, 5VDC…48VDC |
| Blade closing time | Spring: 1 sec |
| Blade opening time | Manual |
| Manual activation | Release button on the casing |
| Degree of protection | IP 42 |
| Ambient temperature range | min. -30 °C, max. 50 °C |
| Ambient humidity | 95% r.h., non-condensing |
| Service life | Min. 30,000 cycles |
| Weight R25/R40 | 0,5 kg / 1,7 kg |

## Electric Actuators M24-S & M230-S

Damper is delivered in closed position. When electric actuator is connected to the power supply damper 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, optional 95 °C (inside or outside duct). If checking is needed for proper functioning of fire damper, pushing the switch on the thermal tripping device will close damper.

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

To unlock the electro motor, turn handle clockwise for a quarter of a turn for Belimo BF, or release brake for Belimo BFL and BFN. 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 | BFN24-T | BFL230-T | BFN230-T | BF24-T | BF230-T |
|---|---|---|---|---|---|---|---|
| Nominal voltage / power consumption | voltage | AC/DC 24 V, 50/60 Hz | AC 24 V, 50/60 Hz | AC 230 V, 50/60 Hz | AC 230 V, 50/60 Hz | AC/DC 24 V, 50/60 Hz | AC 230 V, 50/60 Hz |
| | opening | 2,5 W | 4 W | 3,5 W | 5 W | 7 W | 8.5 W |
| | holding | 0,8 W | 1,4 W | 1,1 W | 2,1 W | 2 W | 3 W |
| | for wire sizing | 4 VA | 6 VA | 6,5 VA | 10 VA | 10 VA | 11 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 | 1 mA...3 A (0.5 A), DC 5 V... AC 250 V | 1 mA...3 A (0.5 A), DC 5 V...AC 250 V | 1 mA...6 A (3 A), DC 5 V... AC 250 V | 1 mA...3 A (0.5 A), DC 5 V...AC 250 V |
| Running time | motor | < 60 s | < 60 s | < 60 s | < 60 s | < 120 s | < 120 s |
| | spring return | ~ 20 s | ~ 20 s | ~ 20 s | ~ 20 s | ~16 s | ~16 s |
| Ambient temperature range | | min. -30 °C, max. 50 °C | | | | | |

## Electric Actuator Schischek ExMax

Damper is delivered in closed position. When electric actuator is connected to the power supply damper will open. When the damper reaches the end position(damper open), in which is it blocked, the electric actuator 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 (inside or outside duct).
If checking is needed for proper functioning of fire damper, pushing the switch on the thermal tripping device will close damper. When switch on tripping device is released, the damper will open.

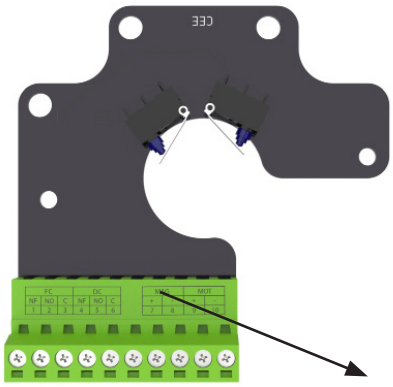
Damper can be opened without connecting to a voltage with enclosed Allen key, by turning in the direction of the arrow on electric actuator (clockwise). After release of Allen key, damper will go to closed position.

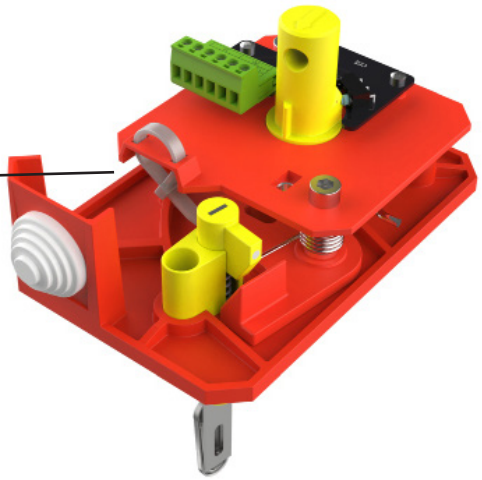
Type Examination Certificate Number: EXA 14 ATEX0064X Equipment complies with the essential health and safety requirements relating to the design and construction of equipment intended to use in potentially explosive atmospheres given in annex II of the directive 94/9/EC.

### Technical Specifications

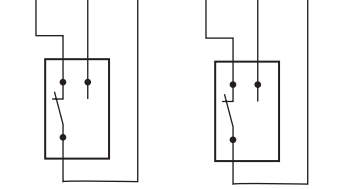
| Type | ExMax -5.10-BF | ExMax -15-BF |
|---|---|---|
| Torque | 5/10 Nm | 15 Nm |
| Power Supply | 24-230 V AC/DC | 24-230 V AC/DC |
| Running time | 3/15/30/60/120 s / 90° | 3/15/30/60/120 s / 90° |
| Spring return | 3 or 10s / 90° | 3 or 10s / 90° |
| Control mode | On-Off, 3 position | On-Off, 3 position |
| Feedback | 2 x aux switches + Ex. tripping device | 2 x aux switches + Ex. tripping device |
| Ambient temperature range | min. -40 °C, max. 40 °C | min. -40 °C, max. 40 °C |
| Ambient humidity | 0-90% r.h., non-condensing | 0-90% r.h., non-condensing |
| Service life | Min. 10,000 cycles @ 10 s, min 1000 cycles @ 1s | Min. 10,000 cycles @ 10 s, min 1000 cycles @ 1s |
| Maintenance | Maintenance-free | Maintenance-free |
| Weight | 3,5 kg | 3,5 kg |

# Wiring Diagrams



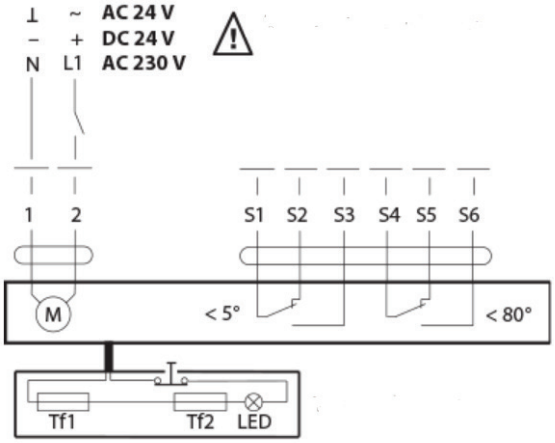


| FC | | | DC | | |
|---|---|---|---|---|---|
| NF | NO | C | NF | NO | C |
| 11 | 12 | 13 | 14 | 15 | 16 |

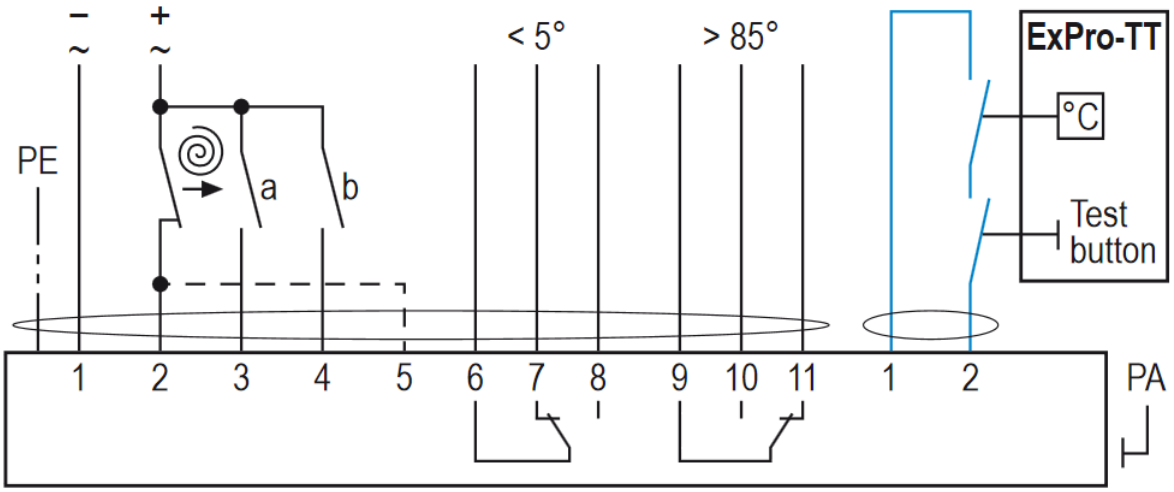


FC = Limit switch - end
DC = Limit switch - start
NO = normally open
NF = normally closed
C = common

## Electric Actuator M24-S & M230-S



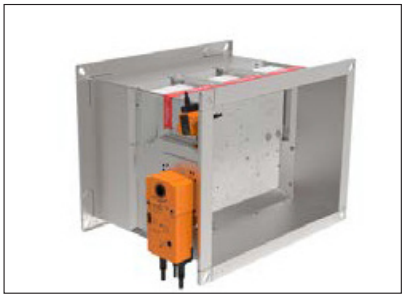

| | |
|---|---|
| 1 | negative (direct-current) or neutral (alternating current) |
| 2 | positive (direct-current) or faze (alternating current) |
| S1 | common micro switch closed damper |
| S2 | normally closed micro switch closed damper |
| S3 | normally open micro switch closed damper |
| S4 | common micro switch open damper |
| S5 | normally closed micro switch open damper |
| S6 | normally open micro switch open damper |
| Tf | temperature sensor on the outer side of the duct (ambient temperature) max. 72 °C |

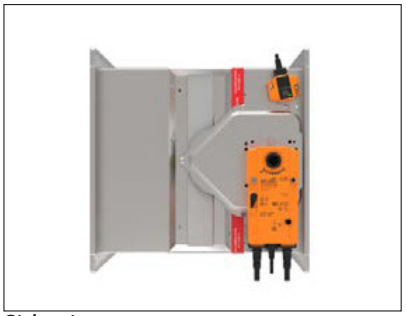



H < 300
Thermal fuse is located on the underside of the fire damper.

Bottom View

300 ≤ H ≤ 450
Thermal fuse is located on the same side as Belimo actuator.





Side view

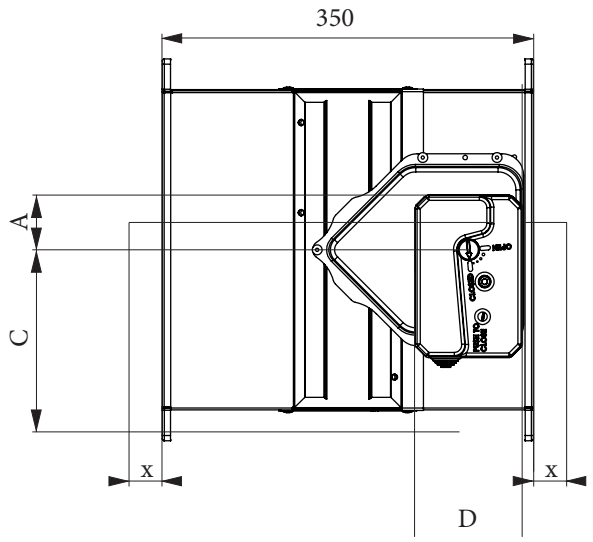
H > 450
Thermal fuse is located on the same side as Belimo actuator (below).

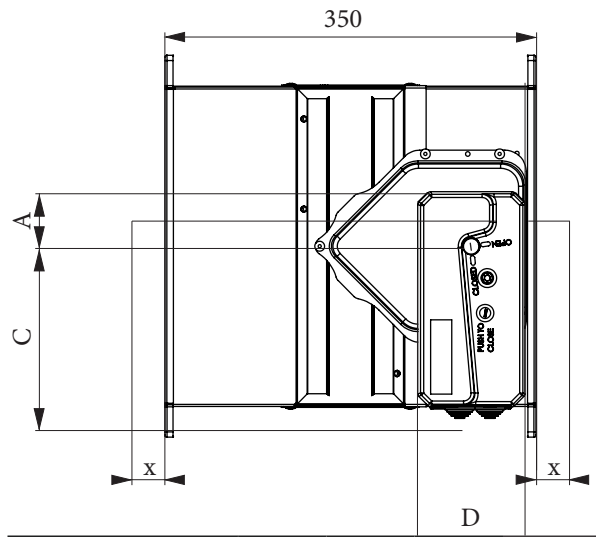
Side view

# Dimensional Data Square

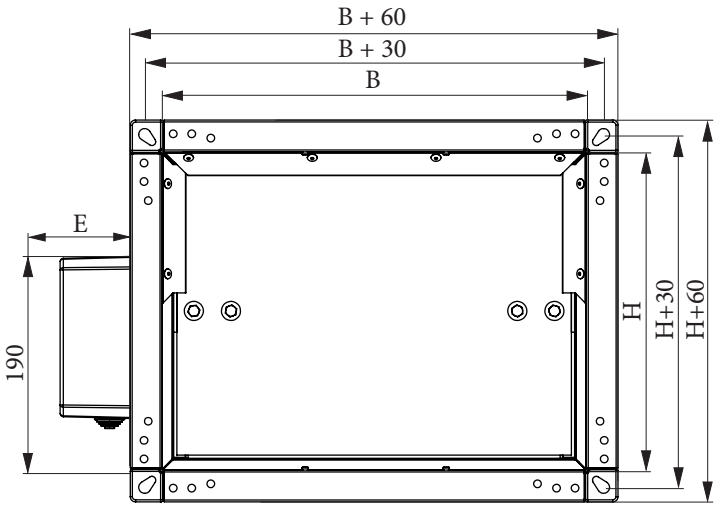
## Manual

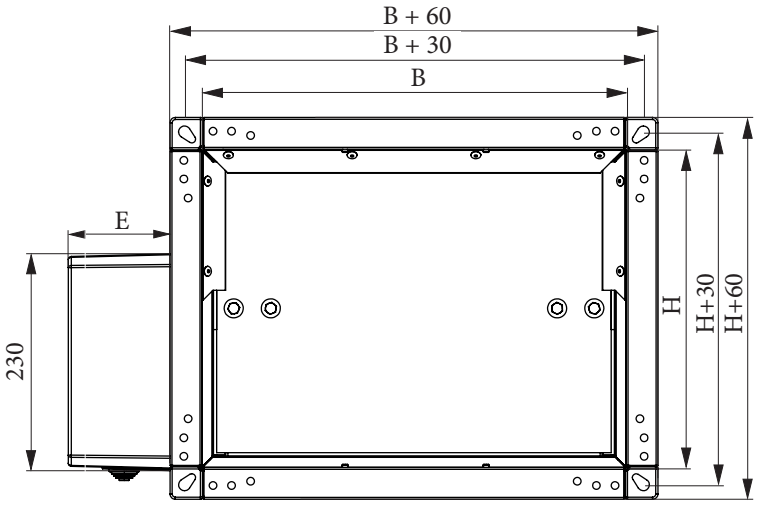
FD 25




FD 40



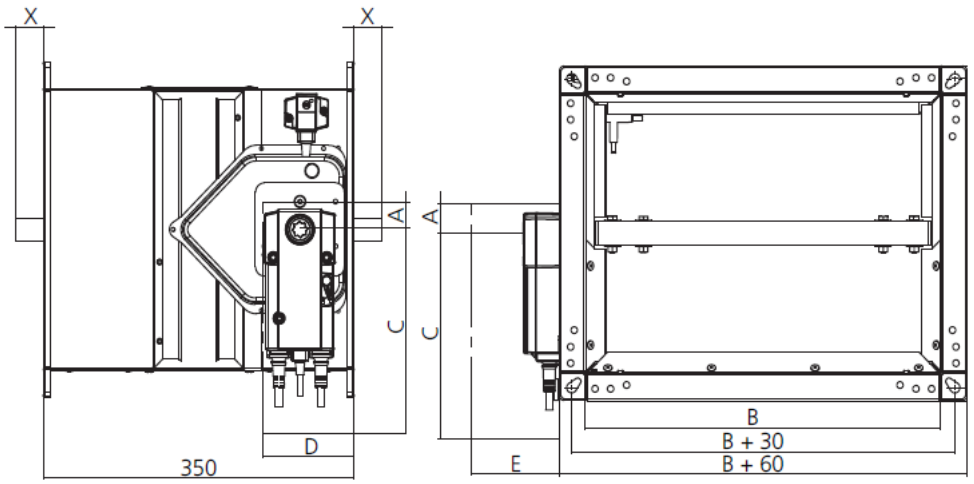




| Product | A [mm] | C [mm] | D [mm] | E [mm] |
|---|---|---|---|---|
| FD 25 | 55 | 150 | 105 | 150 |
| FD 40 | 55 | 200 | 105 | 200 |

Length of damper blade outside of casing:

X=(H/2)-175 [mm]

## Automatic




| Actua-tor | A [mm] | C [mm] | D [mm] | E [mm] |
|---|---|---|---|---|
| BFL (M) | 25 | 200 | 90 | 120 |
| BFN (M) | 25 | 225 | 100 | 120 |
| BF (M)* | 50 | 250 | 100 | 120 |

Length of damper blade outside of casing:

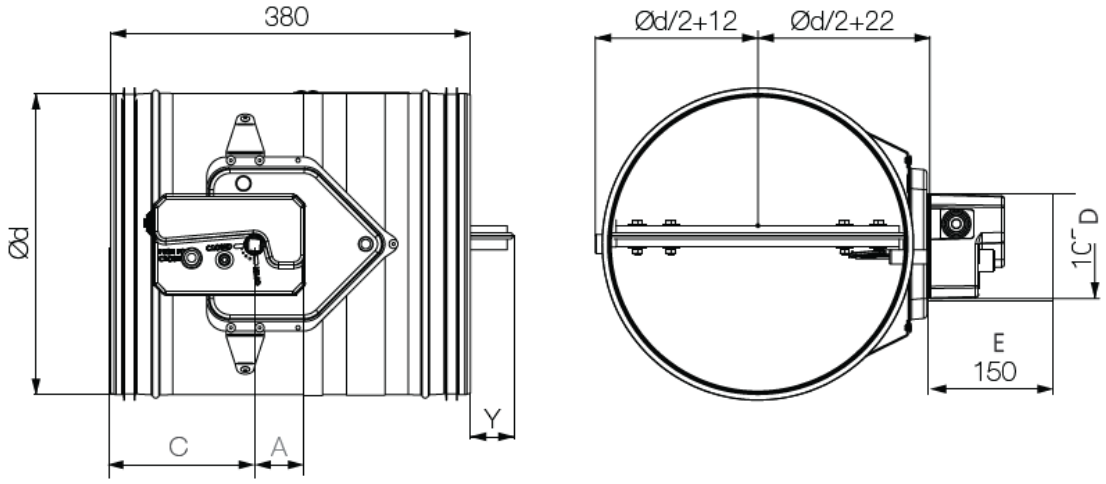
X=(H/2)-175 [mm]

# Dimensional Data

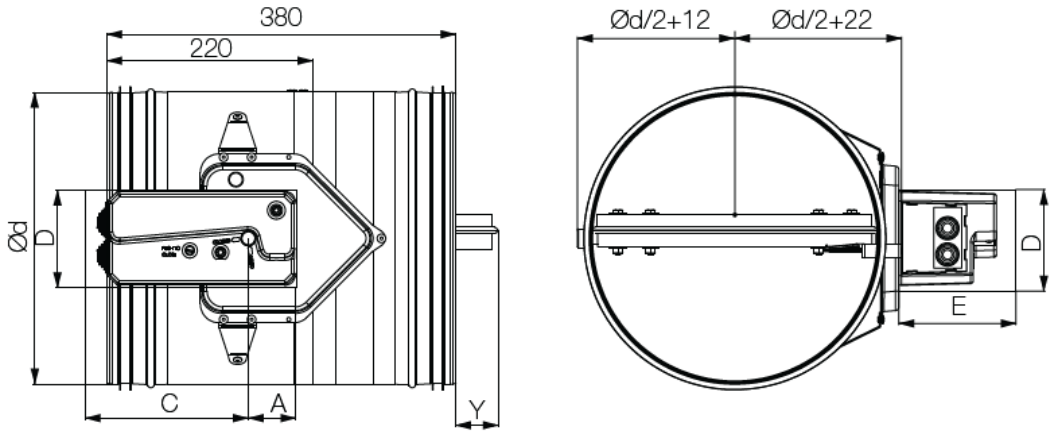
## Manual

| Product | A [mm] | C [mm] | D [mm] | E [mm] |
|---|---|---|---|---|
| FDC 25 | 55 | 150 | 105 | 150 |
| FDC 40 | 55 | 200 | 105 | 200 |

FD-C 25




FD-C 40



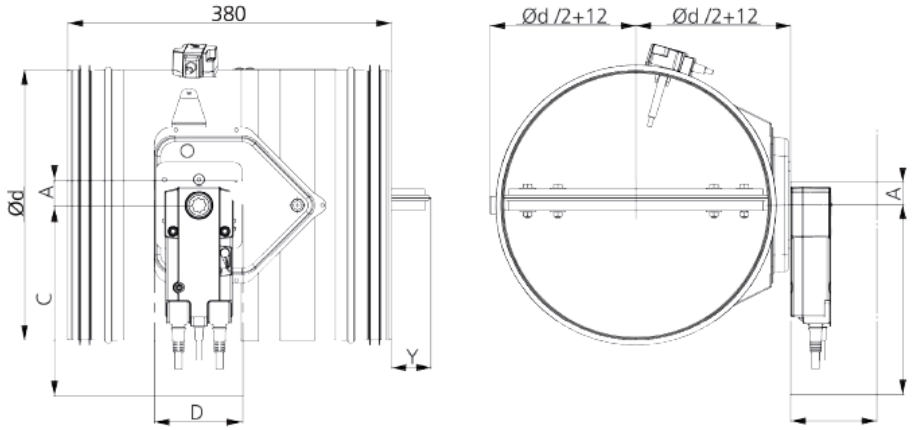

Length of damper blade outside of casing
(Y dimension on front side)

Y=(Ød/2)-110 [mm]

*If the damper is larger than Ø540, use formula
(X dimension on back side)

X=(Ød/2)-270 [mm]

## Automatic




Length of damper blade outside of casing
(Y dimension on front side)

Y=(Ød/2)-110 [mm]

*If the damper is larger than Ø540, use formula
(X dimension on back side)

X=(Ød/2)-270 [mm]

| Product | A [mm] | C [mm] | D [mm] | E [mm] |
|---|---|---|---|---|
| BFL (M) | 25 | 200 | 90 | 120 |
| BFN (M) | 25 | 225 | 100 | 120 |
| BF (M)* | 50 | 250 | 100 | 120 |

# Inspection and handover check sheet

This certificate applies only to Swegon Fire Dampers. The installer must complete this installation certificate when installing fire and smoke dampers. A separate certificate must be completed for each individual fire and smoke damper.

| | Question | Action | |
|---|---|---|---|
| 1 | Are the dampers the correct type? | Confirm damper is correct type for the application | |
| 2 | Are the dampers located correctly? | The damper location is to be checked against the installation drawings/details | |
| 3 | Are the dampers correctly identified? | Unique system ID to be clearly indicated on the damper or other agreed location. | |
| 4 | Have supports for both the damper and the adjacent ductwork been installed in accordance with the approved manner? | | |
| 5 | Are the dampers fitted in the correct orientation? | Confirm the damper is installed with any actuators (if applicable) on the left or right hand side. Not on the top or the bottom (i.e. blade pivot running vertically). | |
| 6 | Is access through the ductwork, to the damper unobstructed? | Unobstructed space should be provided for safe access to the damper. This must include access through ceiling voids and adjacent services. Damper installer to advise the system designer if problems are foreseen. | |
| 7 | Has the space around the damper and within the opening been left clear and not been used for other services? | Other services within the installation opening will invalidate the installation method. Damper installer to advise the lead contractor if problems are foreseen. | |
| 8 | Using the access opening provided, check that blades open and close. | Check position of damper blades. | |
| 9 | Has the damper been checked for internal cleanliness, free from damage and that vertical casings in particular are free from debris? | With the damper in the closed position, inspect for damage. | |
| 10 | Has the damper been released to simulate operation of the thermal release? (Damper drop test) | Ensure damper operation is free from interference. | |
| 11 | Have the damper blades been re-set following drop test and the access panel replaced? | After re-setting the damper, check the position shown on the blade position indicator is correct. | |
| 12 | At the time of damper handover, is the fire barrier and penetration seal complete? | Damper installer to record on the handover register if any following trades are still to complete their activities. | |
| 13 | Is the damper installation complete and available for handover prior to system commissioning? | Obtain the relevant acceptance of the damper installation from the CDM coordinator (or equivalent). | |
| 14 | Is the completed handover register cross-referenced back to the identification codes listed in the system designers damper schedule? | | |

Damper Unique System I.D: .....

Name of installation location: .....

Address: .....

Installation location identification section/floor/room: .....

Damper product type: .....

Release fuse temperature: .....

Notes/Considerations: .....

Installed by: .....

Company Name: .....

Address: .....

Company Telephone No: .....

Installers Name: .....

Installers Telephone No: .....

Date of installation: .....

It is hereby verified that the damper detailed above has been installed and tested according to the manufactures recommendations:

Installers signature: ..... Date: .....