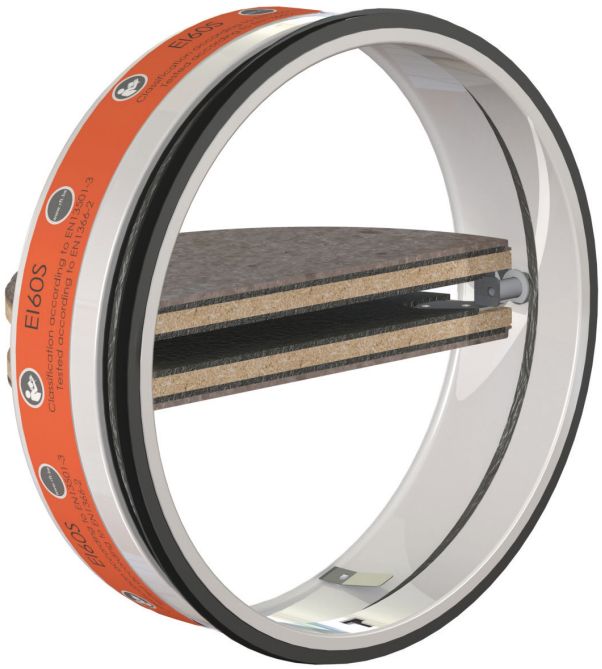
SC+

Circular fire damper cartridge.



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Rf-t

www.rft.eu

S3-EN-H 06/2025

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Explanation of the abbreviations and pictograms

Dn = nominal diameter
E = integrity
I = thermal insulation
S = smoke leakage: max. 200 $m^3/(h\ m^2)$ according to EN 1366-2
Pa = pascal
ve = vertical wall penetration
ho = horizontal floor penetration
i <-> o = fire side not important
o -> i = meets the criteria from the outside (o) to the inside (i)
GKB (type A) / GKF (type F): "GKB" stands for standard plasterboards (type A according to EN 520) while "GKF" plasterboards offer a higher fire resistance for a similar plate thickness (type F according to EN 520)
Sn = free air passage
ζ [-] = pressure loss coefficient
Q = airflow
ΔP = static pressure drop
v = air speed in the duct
Lwa = A-weighted sound power level
OP = option (delivered with the product)
KIT = kit (delivered separately for repair or upgrade)
DAS MOD = modular product
dB(A) = A-weighted decibel value
Lw oct = sound power level per octave midband
ΔL = correction factor

	fast installation		

DECLARATION OF PERFORMANCE

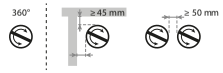
UKCA_DoP_Rf-t_S3_EN ■ J-01/03/2025

1. Unique identification code of the product-type:	**SC+**
2. Intended use/es:	Circular fire damper to be used in conjunction with partitions to maintain fire compartments in heating, ventilating and air conditioning installations.
3. Manufacturer:	Rf-Technologies NV, Lange Ambachtstraat 40, B-9860 Oosterzele
4. System/s of AVCP:	System 1
5. Designated standard / Approved body; certificate of constancy of performance:	BS EN 15650:2010, BCCA with identification number 0749; 2822-UKCA-CPR-0062
6. Declared performance according to	(Fire resistance according to BS EN 1366-2 and classifications according to BS EN 13501-3)

Essential characteristics					Performance
Range	**Type**	**Construction**	**Sealing**	**Installation**	**Classification**
SC+60 Ø 100-200 mm	Rigid wall	Aerated concrete ≥ 100 mm	Mortar	1	EI 60 (v_e i ↔ o) S - (300Pa)
			Gypsum	2	EI 60 (v_e i ↔ o) S - (300Pa)
			Stone wool + coating ≥ 140 kg/m³	2	EI 60 (v_e i ↔ o) S - (300Pa)
			Insulated duct (ArmaFlex EVO, ArmaFlex Protect – up to 13 mm) + stone wool + coating ≥ 140 kg/m³	1	EI 60 (v_e i ↔ o) S - (300Pa)
	Rigid floor	Aerated concrete ≥ 150 mm	Mortar	1	EI 60 (h_o i ↔ o) S - (300Pa)
	Flexible wall	Metal studs gypsum plasterboard Type A (EN 520) ≥ 100 mm	Stone wool ≥ 40 kg/m³ + cover plates	1	EI 60 (v_e i ↔ o) S - (300Pa)
			Gypsum	2	EI 60 (v_e i ↔ o) S - (300Pa)
			Stone wool + coating ≥ 140 kg/m³	2	EI 60 (v_e i ↔ o) S - (300Pa)
			Insulated duct (ArmaFlex EVO, ArmaFlex Protect – up to 13 mm) + stone wool + coating ≥ 140 kg/m³	1	EI 60 (v_e i ↔ o) S - (300Pa)
SC+90 Ø 100-200 mm	Rigid wall	Aerated concrete ≥ 100 mm	Mortar	1	EI 90 (v_e i ↔ o) S - (300Pa)
		Aerated concrete ≥ 125 mm	Gypsum	2	EI 90 (v_e i ↔ o) S - (300Pa)
		Aerated concrete ≥ 100 mm	Gypsum + 2 x 12.5 mm gypsum plasterboard Type F (EN520)	2	EI 90 (v_e i ↔ o) S - (300Pa)
			Stone wool + coating ≥ 140 kg/m³ + coated duct	1	EI 90 (v_e i ↔ o) S - (300Pa)
	Rigid floor	Aerated concrete ≥ 150 mm	Mortar	1	EI 90 (h_o i ↔ o) S - (300Pa)
	Flexible wall	Metal studs gypsum plasterboard Type F (EN 520) ≥ 100 mm	Stone wool ≥ 40 kg/m³ + gypsum + cover plates	1	EI 90 (v_e i ↔ o) S - (300Pa)
			Gypsum + 2 x 12.5 mm gypsum plasterboard Type F (EN520)	2	EI 90 (v_e i ↔ o) S - (300Pa)
			Stone wool + coating ≥ 140 kg/m³ + coated duct	1	EI 90 (v_e i ↔ o) S - (300Pa)
SC+120 Ø 100-200 mm	Rigid wall	Reinforced concrete ≥ 110 mm	Mortar	1	EI 120 (v_e i ↔ o) S - (300Pa)

1 Type of installation: built-in inside a duct, 0-360°

2 Type of installation: built-in inside a duct, 0-360°. Minimal distances authorised.



Designated standard EN 15650:2010

Nominal activation conditions/sensitivity:	Pass	**Integrity (E)**	60, 90 and 120 minutes
Response delay (response time): closure time	Pass	**Insulation (EI)**	60, 90 and 120 minutes
Operational reliability: cycling	50 cycles	**Smoke leakage (EIS)**	60, 90 and 120 minutes
Durability of response delay:	Pass	**Mechanical stability (under E)**	n/a
Durability of operational reliability:	NPD (no performance determined)	**Maintenance of cross section (under E)**	n/a
Protection against corrosion according to EN 60068-2-52:	NPD (no performance determined)		
Damper casing leakage according to EN 1751:	NPD (no performance determined)		

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:
Duchan Laplace, R&D Manager

Oosterzele, 01/03/2025

Product presentation SC+

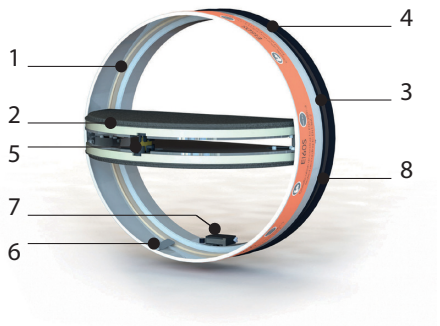
Circular fire damper cartridge with a fire resistance up to 120 minutes. The circular fire damper cartridges are equipped with a fusible link that holds the two parts of the blade in the open position. When the temperature in the duct rises above 72°C, the fusible link melts and releases the two semi circular blades. The damper is now closed and two blocking hooks keep the blades in their safety position, which prevents any smoke or flames from passing through. The cartridge is inserted in a metal ventilation duct of the same diameter and stays in place thanks to its rubber sealing ring.

The circular fire damper cartridge is a compact fire resistant product for ducts with a small diameter. It is inserted inside ventilation ducts that cross walls in order to stop the propagation of fire. It is characterised by its easy installation. Two versions are available: the standard fire damper cartridge (technical datasheet S3) and the cartridge equipped with a finishing ventilation valve 'V' (technical datasheet S5) for installation at duct ends.

- ☑ easy to install
- ☑ no space is lost at the wall crossing
- ☑ minimal distance allowed

- lightweight
- tested according to EN 1366-2 up to 300 Pa
- suitable for rigid wall, rigid floor and light wall (metal stud gypsum plasterboard wall)
- maintenance-free
- for indoor use
- ambient temperature below 50°C

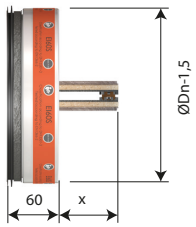
1. steel tunnel
2. two semi-circular blades
3. intumescent strip
4. rubber sealing ring
5. fusible link 72°C
6. 2 blocking hooks
7. end of range switch (option)
8. product identification



Range and dimensions SC+60

Circular fire damper cartridge with a fire resistance of 60 minutes.

ØDn [mm]	100	125	150	160	200



Exceeding blade: X

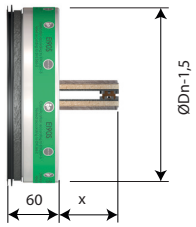
ØDn [mm]	100	125	150	160	200
x	18	31	40	49	69
y	-	-	-	-	-

Range and dimensions SC+90

Range and dimensions SC+90

Circular fire damper cartridge with a fire resistance of 90 minutes.

ØDn [mm]	100	125	150	160	200



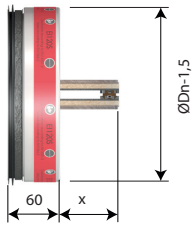
Exceeding blade: X

ØDn [mm]	100	125	150	160	200
x	20	33	42	51	71
y	-	-	-	-	-

Range and dimensions SC+120

Circular fire damper cartridge with a fire resistance of 120 minutes.

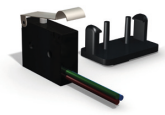
ØDn [mm]	100	125	160	200



Exceeding blade: X

ØDn [mm]	100	125	160	200
x	20	33	51	71
y	-	-	-	-

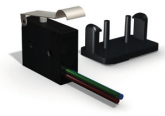
Evolution - kits



KIT FCU SC — Unipolar end of range switch

KIT FT SC — Fusible link 72°C (per set of 5 pieces)

Options - at the time of order



FCU SC — Unipolar end of range switch (pre-mounted)

Storage and handling

As this product is a safety element, it should be stored and handled with care.

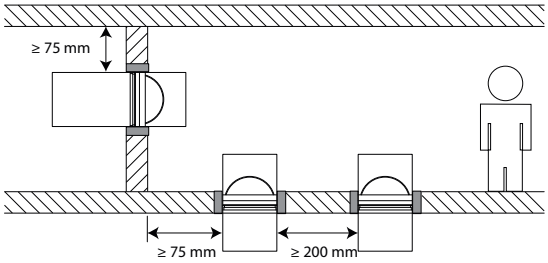
Avoid:

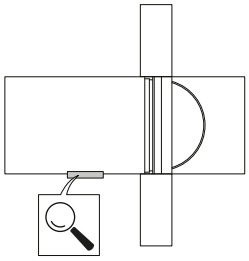
- any kind of impact or damage
- contact with water
- deformation of the casing

Installation

General points

- Verify if the blade can move freely.
- The fire damper cartridge must remain accessible for inspection and maintenance.
- Please observe safety distances with respect to other construction elements.





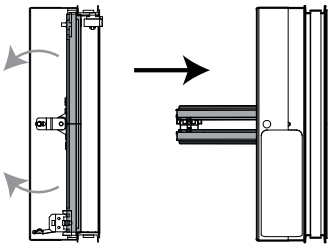
Product specific

- The installation must comply with the installation manual and the classification report.
- The results obtained in standardised supporting structures according to EN 1366-2 also apply to similar supporting structures with a fire resistance, thickness and density equal to or greater than the supporting structure of the test. More information on standardised supporting structures: https://www.rft.eu/en-gb/page/legal-context/european-regulations/standardised-constructions
- Mounting direction: mounting possible with the axis in any position (0-360°)
- Direction of the airflow: discretionary
- If the product is manipulated in any other way than described in this manual, Rf-Technologies will decline any responsibility and the guarantee will expire!

Installation

Operation: manual opening

1



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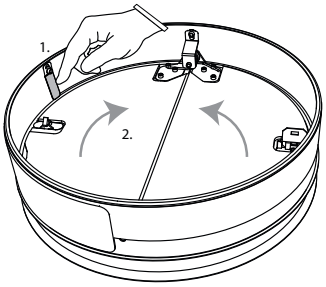
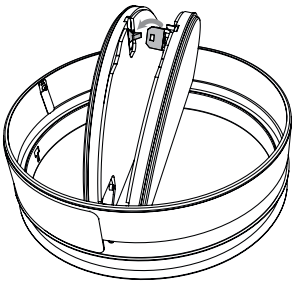


2. Press the two blocking hooks carefully to unlock the blades.

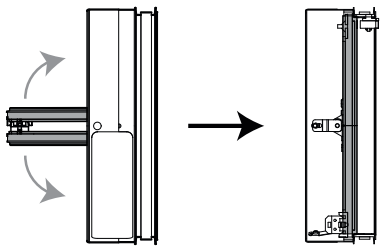
3



3. Click the fusible link into the holder to lock the blades.

Operation: manual closing

1



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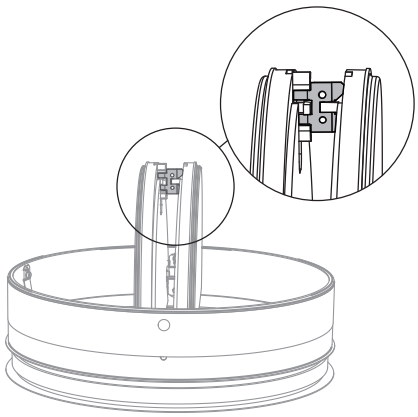
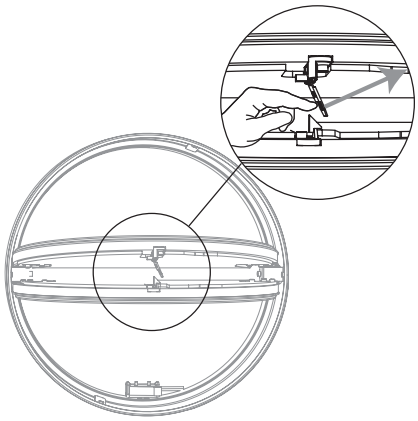


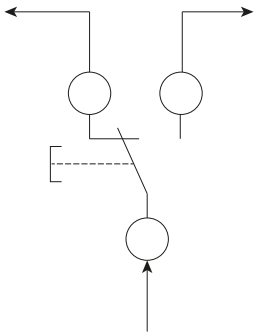
2. Unlock (close) the damper blades by pushing them towards each other. Carefully unlock the fusible link by pushing it sidewards.

3



Electrical wiring

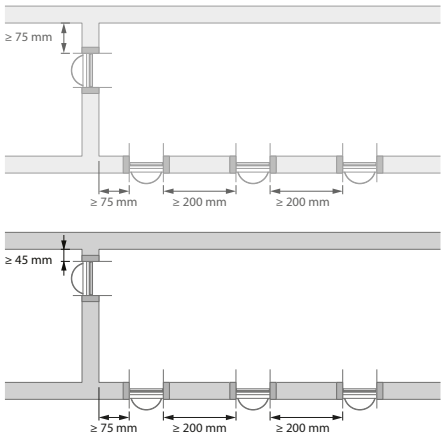
1



1. An end of range switch (FCU) can be mounted on the metal body. The purpose is to determine the position of the circular fire damper cartridge from a distance. 1mA...6A DC 5V....AC250V.
COM: black; NF: grey; NO: blue.
Power supply: Max 250V; Power consumption : Max 6A; Degree of protection: IP65; Length of cable: 500 mm.

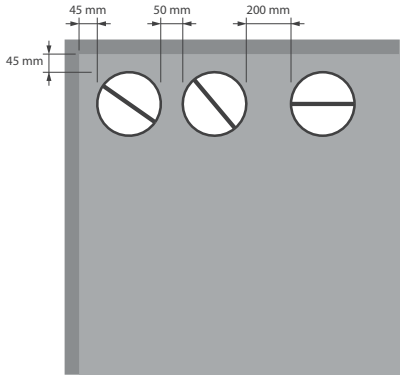
Installation at a minimal distance from another damper or from an adjacent supporting construction

1



1. According to the European test standard, a fire damper must be installed at a minimum distance of 75 mm from an adjacent wall and 200 mm from another damper, unless the solution was tested at a shorter distance.
This range of Rf-t fire dampers has been successfully tested and in several installation methods can be installed in a vertical supporting construction, at a distance below the minimum set by the standard - see below.

2



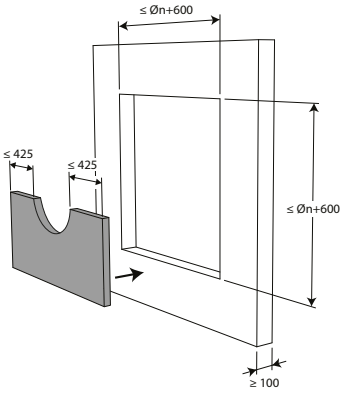
2. If installation at a shorter distance (only possible for certain installation methods) take in account following restriction:
A maximum of 2 circular dampers can be installed horizontally at a minimum distance from one another.

Installation in rigid wall, sealing with rigid stone wool boards with coating - SC+60

The product was tested and approved in:

Range	Wall type		Sealing	Classification
SC+60 Ø 100-200 mm	Rigid wall	Aerated concrete ≥ 100 mm	Stone wool + coating ≥ 140 kg/m^3	EI 60 (v_e i ↔ o) S - (300Pa)

1



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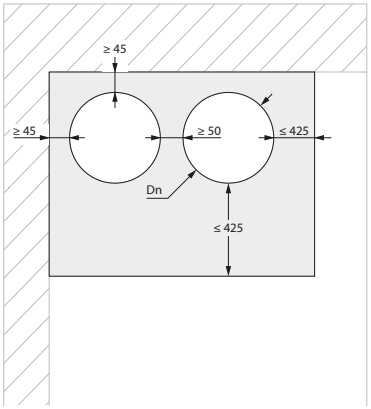

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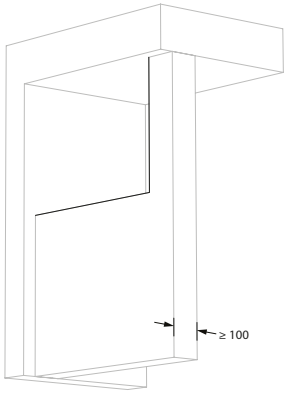
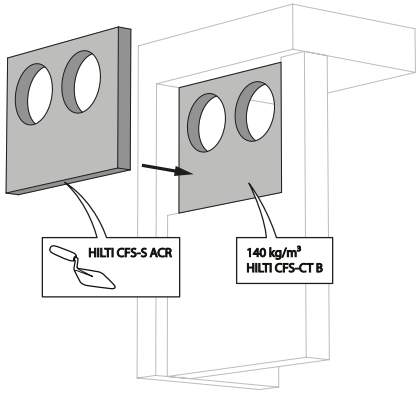


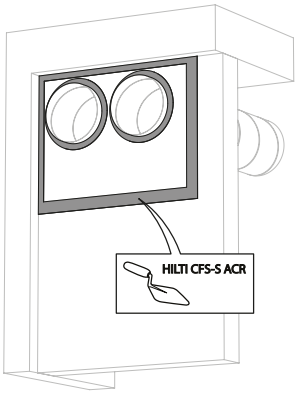
3. The opening in the wall around the duct in which the fire damper cartridge is mounted, is sealed with 2 layers of 50 mm-thick stone wool panels with fire resistant coating on one side (type HILTI CFS-CT B).

4



4. The joints on these 2 layers must be installed staggered and covered all around the edge with coating (type HILTI CFS-S-ACR).

5



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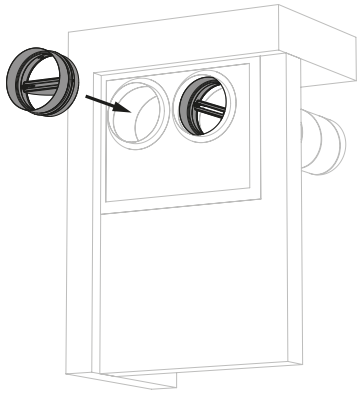

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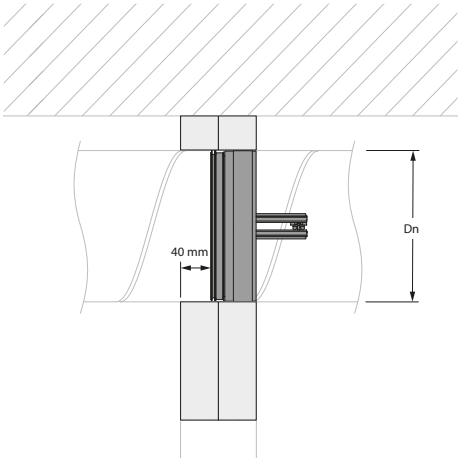

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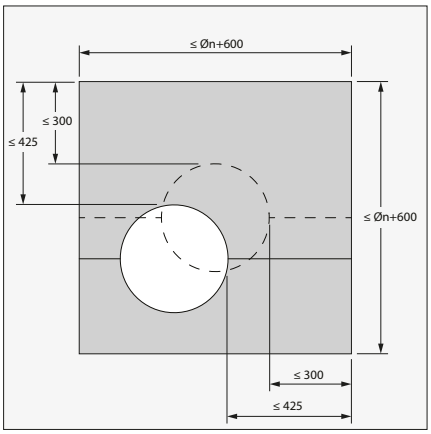


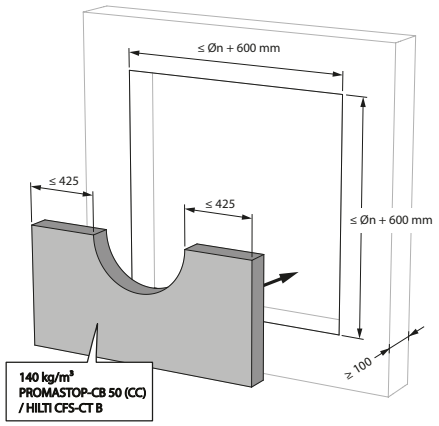
8. The duct in which the damper is inserted doesn't need be centered in the opening (with max dimensions duct + 600 mm). The maximal distance between the damper and the edge of the opening is 425 mm.

Installation in rigid wall, insulated duct, sealing with rigid stone wool boards with coating - SC+60

The product was tested and approved in:

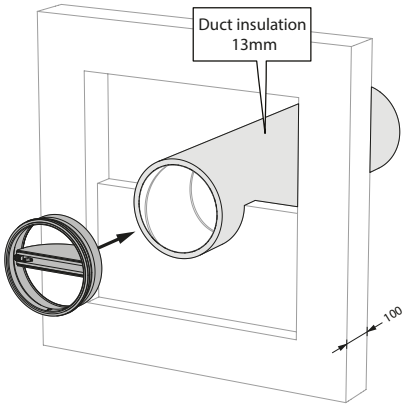
Range	Wall type		Sealing	Classification
SC+60 Ø 100-200 mm	Rigid wall	Aerated concrete ≥ 100 mm	Insulated duct (ArmaFlex EVO, ArmaFlex Protect – up to 13 mm) + stone wool + coating ≥ 140 kg/m³	EI 60 (v_e i ↔ o) S - (300Pa)

1



1. The fire batt type Hilti CFS-CT B may be replaced by a similar type of fire batt with at least the same fire reaction class, density and thickness (tested according to EN 1366-3), for example PROMASTOP-CB 50 (CC).

2



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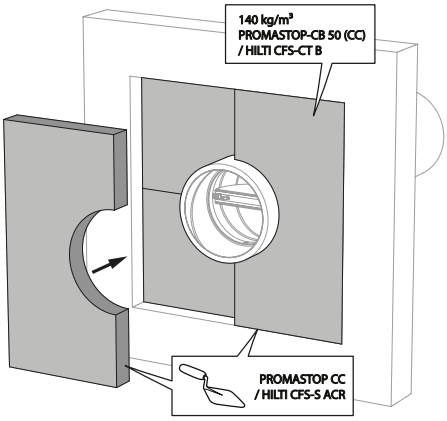
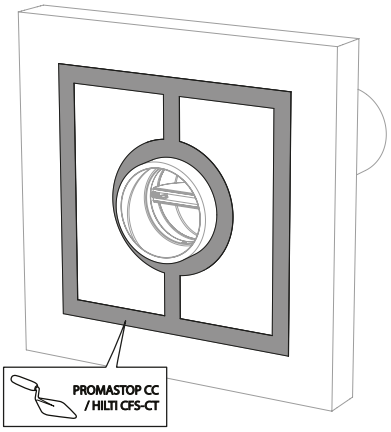


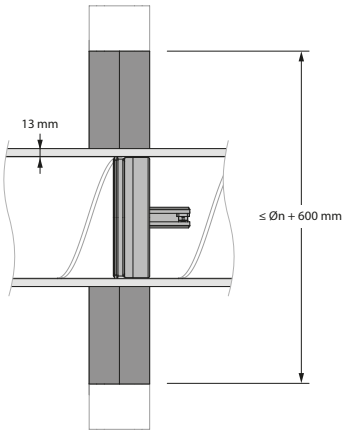
3. The opening in the wall around the insulated duct, is sealed with 2 rigid stone wool boards of 50 mm with fire-resistant coating on one side (type Promastop CB50 / Hilti CFS-CT W).

4



4. The joints on these 2 layers must be installed staggered and covered all around the edge with coating (type PROMASTOP-CC / HILTI CFS-S-ACR).

5

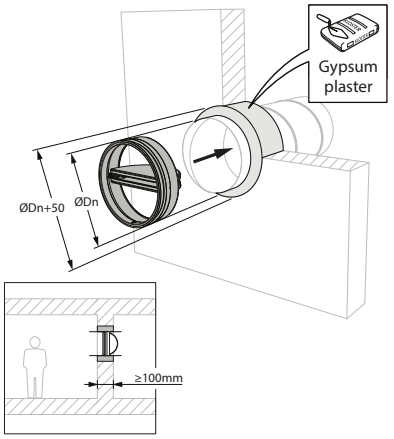


Installation in rigid wall with gypsum sealing - SC+60

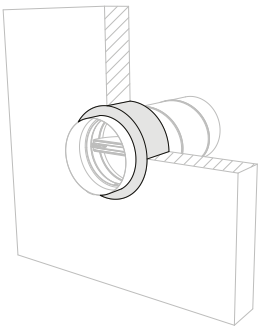
The product was tested and approved in:

Range	Wall type		Sealing	Classification
SC+60 Ø 100-200 mm	Rigid wall	Aerated concrete ≥ 100 mm	Gypsum	EI 60 (v_e i ↔ o) S - (300Pa)

1



2



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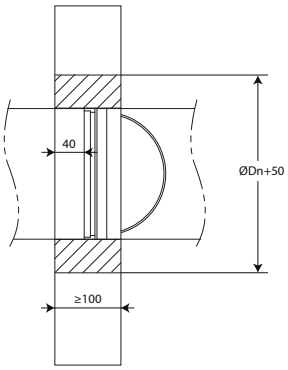

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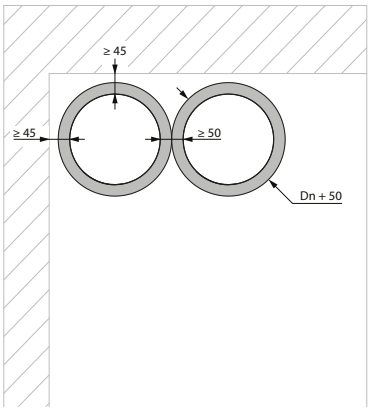

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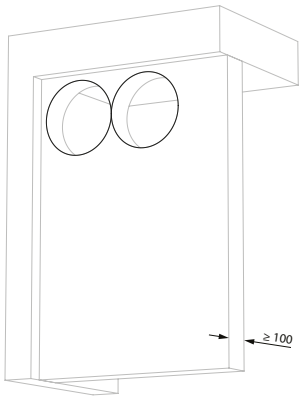

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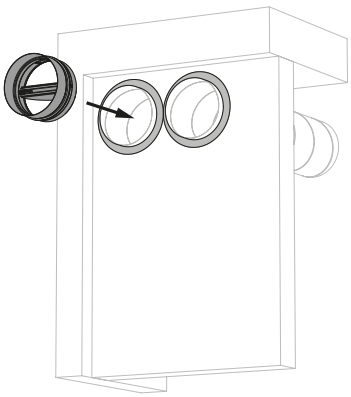
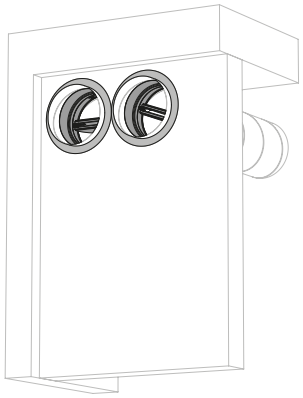
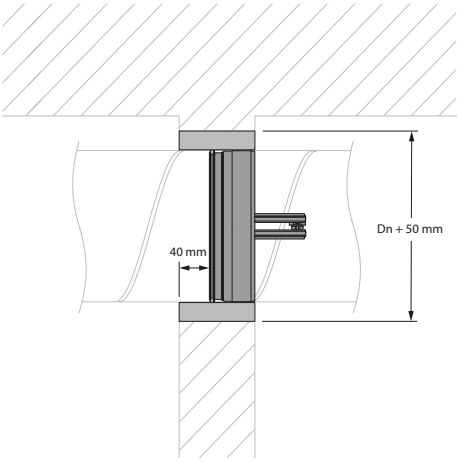


Installation

7



8

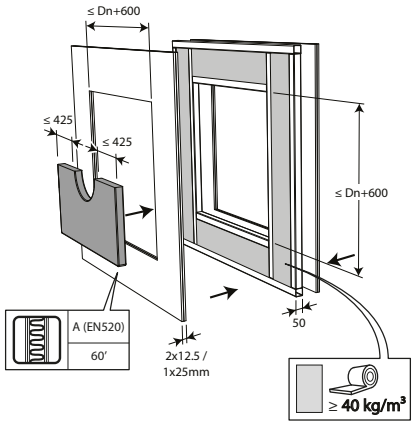


Installation in flexible wall, sealing with rigid stone wool boards with coating - SC+60

The product was tested and approved in:

Range	Wall type		Sealing	Classification
SC+60 Ø 100-200 mm	Flexible wall	Metal studs gypsum plasterboard Type A (EN 520) ≥ 100 mm	Stone wool + coating ≥ 140 kg/m³	EI 60 (v_e i ↔ o) S - (300Pa)

1



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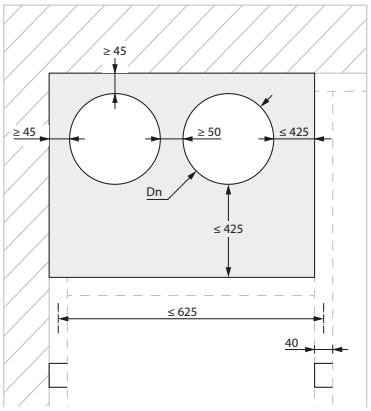

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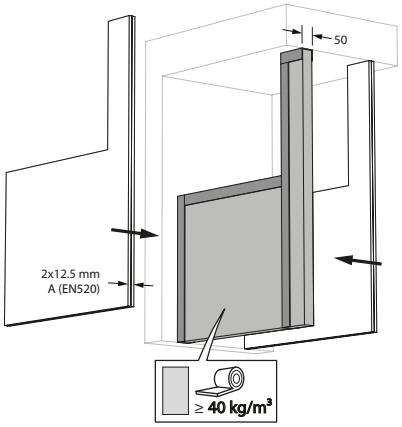
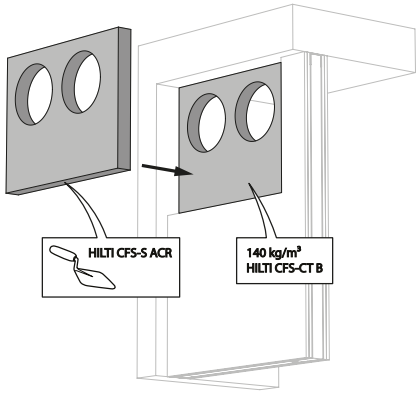


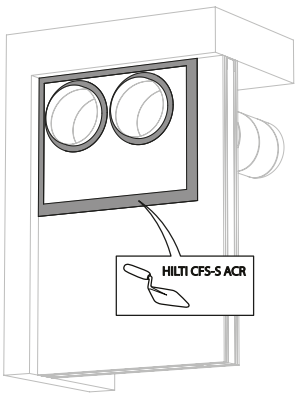
3. The opening in the wall around the duct in which the fire damper cartridge is mounted, is sealed with 2 layers of 50 mm-thick stone wool panels with fire resistant coating on one side (type HILTI CFS-CT B).

4



4. The joints on these 2 layers must be installed staggered and covered all around the edge with coating (type HILTI CFS-S-ACR).

5



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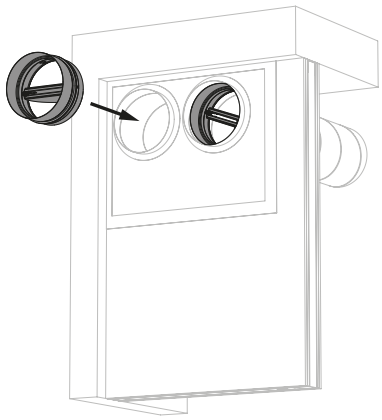

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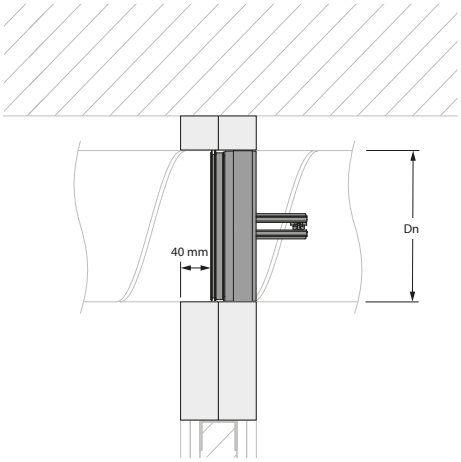

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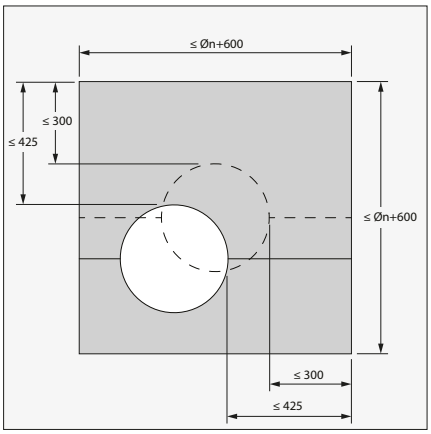


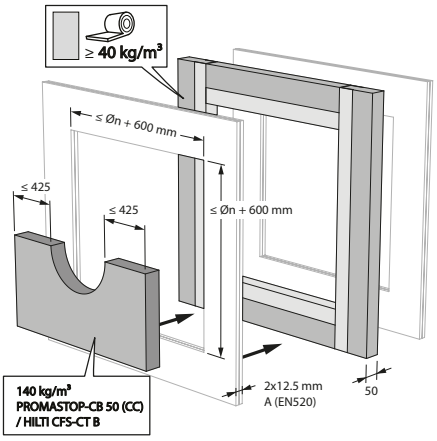
8. The duct in which the damper is inserted doesn't need be centered in the opening (with max dimensions duct + 600 mm). The maximal distance between the damper and the edge of the opening is 425 mm.

Installation in flexible wall, insulated duct, sealing with rigid stone wool boards with coating - SC+60

The product was tested and approved in:

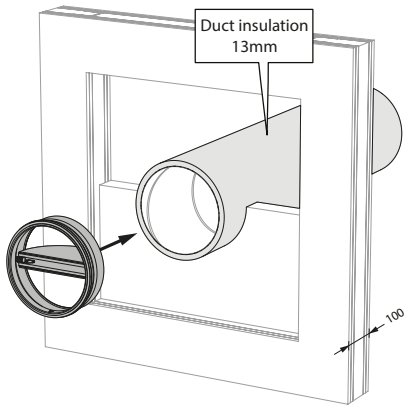
Range	Wall type		Sealing	Classification
SC+60 Ø 100-200 mm	Flexible wall	Metal studs gypsum plasterboard Type A (EN 520) ≥ 100 mm	Insulated duct (ArmaFlex EVO, ArmaFlex Protect – up to 13 mm) + stone wool + coating ≥ 140 kg/m³	EI 60 (v_e i ↔ o) S - (300Pa)

1



1. The fire batt type Hilti CFS-CT B may be replaced by a similar type of fire batt with at least the same fire reaction class, density and thickness (tested according to EN 1366-3), for example PROMASTOP-CB 50 (CC).

2



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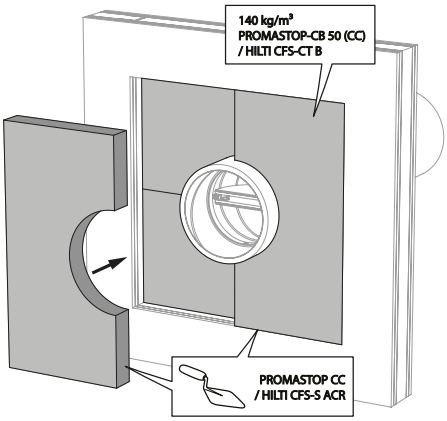
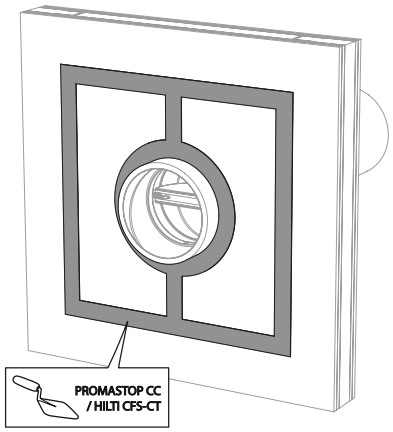


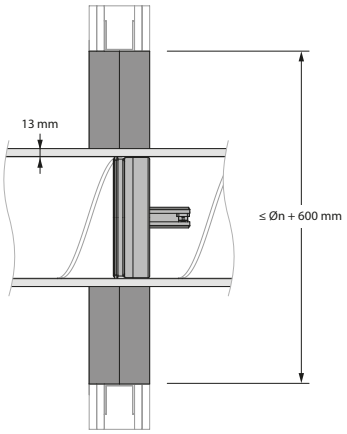
3. The opening in the wall around the insulated duct, is sealed with 2 rigid stone wool boards of 50 mm with fire-resistant coating on one side (type Promastop CB50 / Hilti CFS-CT W).

4



4. The joints on these 2 layers must be installed staggered and covered all around the edge with coating (type PROMASTOP-CC / HILTI CFS-S-ACR).

5

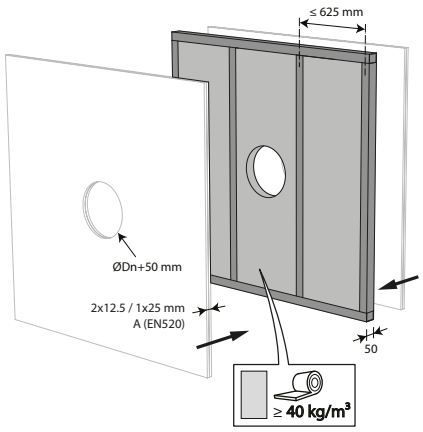


Installation in flexible wall with gypsum sealing - SC+60

The product was tested and approved in:

Range	Wall type		Sealing	Classification
SC+60 Ø 100-200 mm	Flexible wall	Metal studs gypsum plasterboard Type A (EN 520) ≥ 100 mm	Gypsum	EI 60 (v_e i ↔ o) S - (300Pa)

1



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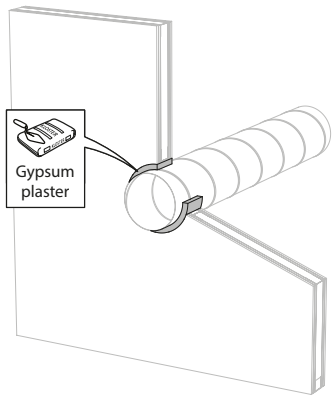

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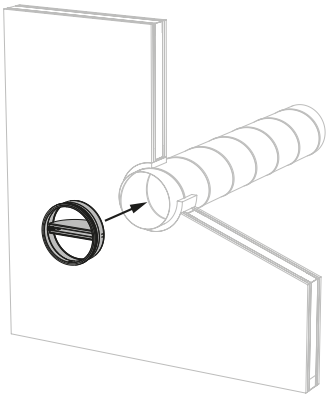

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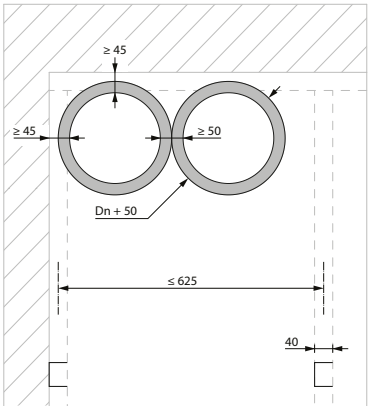

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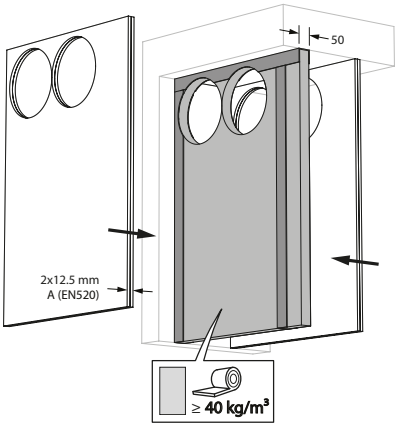

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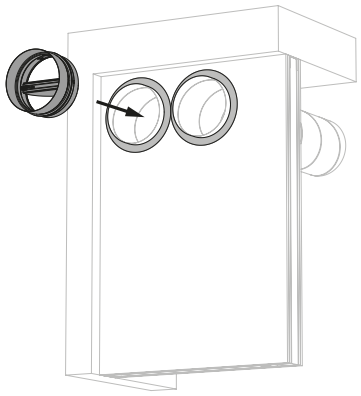

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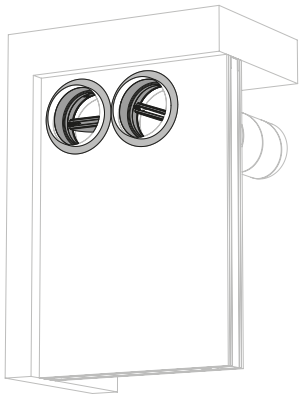

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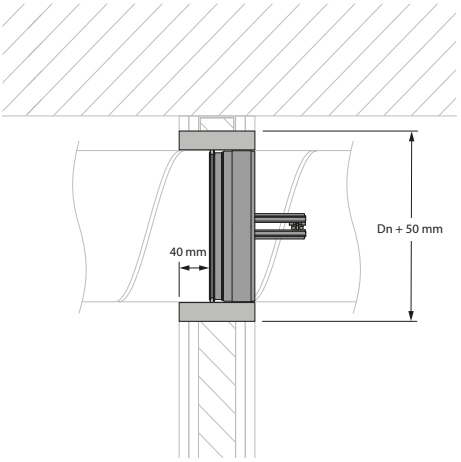
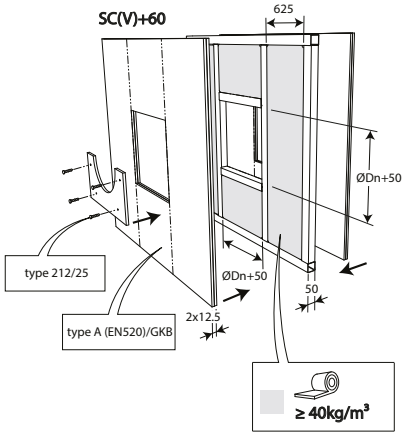


Installation in flexible wall, sealing with stone wool and cover plates - SC+60

The product was tested and approved in:

Range	Wall type		Sealing	Classification
SC+60 Ø 100-200 mm	Flexible wall	Metal studs gypsum plasterboard Type A (EN 520) ≥ 100 mm	Stone wool ≥ 40 kg/m^3 + cover plates	EI 60 (v_e i ↔ o) S - (300Pa)

1



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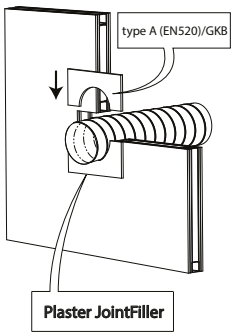

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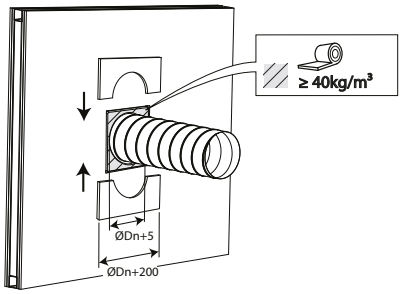

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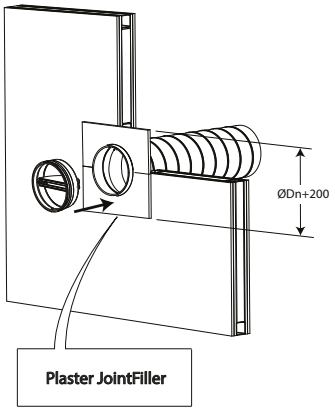

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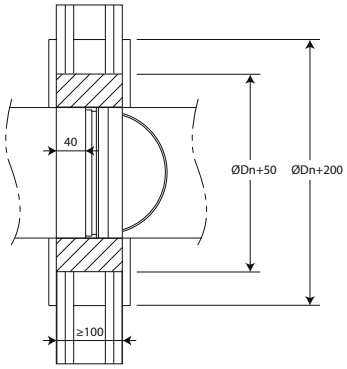
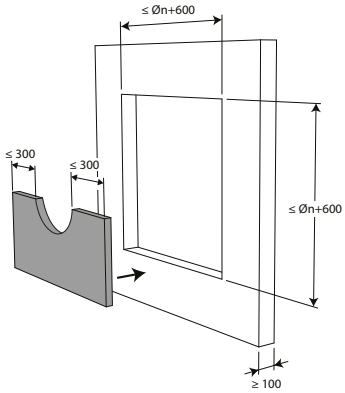


Installation in rigid wall, sealing with rigid stone wool boards with coating - SC+90

The product was tested and approved in:

Range	Wall type		Sealing	Classification
SC+90 Ø 100-200 mm	Rigid wall	Aerated concrete ≥ 100 mm	Stone wool + coating ≥ 140 kg/m³ + coated duct	EI 90 (v_e i ↔ o) S - (300Pa)

1



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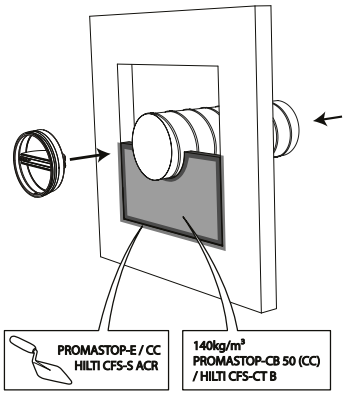
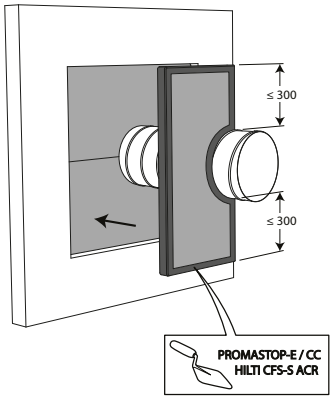


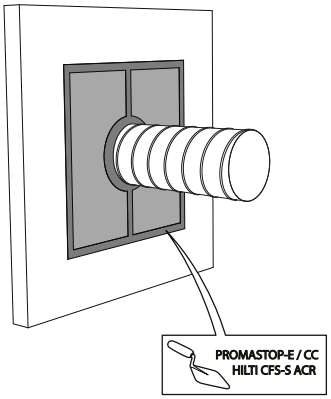
2. The opening in the wall around the duct in which the fire damper cartridge is mounted, is sealed with 2 layers of 50 mm-thick stone wool panels with fire resistant coating on one side (type PROMASTOP-CB 50 / PROMASTOP-CB/CC 50 / HILTI CFS-CT B).

3

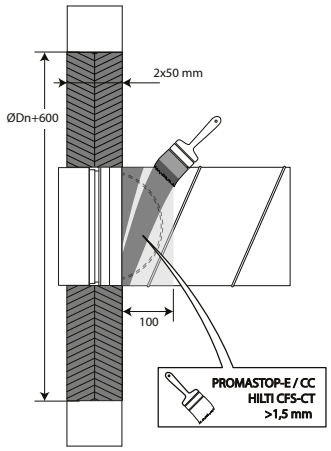


3. The joints on these 2 layers must be installed staggered and covered all around the edge with coating (type PROMASTOP-CC / HILTI CFS-S-ACR).

4

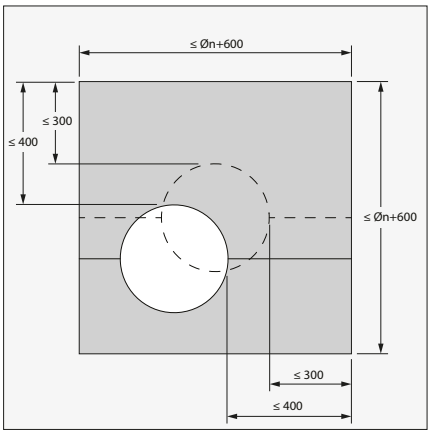


5



5. The duct is coated with a layer (>1,5 mm) of endothermic coating (type PROMASTOP-CC / HILTI CFS-CT) on a width of 100 mm at the side the open damper blade exceeds.

6



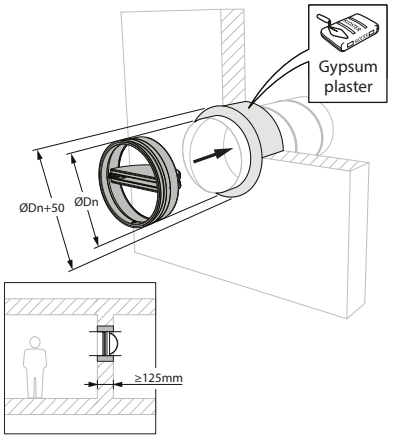
6. The duct in which the damper is inserted doesn't need be centered in the opening (with max dimensions duct + 600 mm). The maximal distance between the damper and the edge of the opening is 400 mm.

Installation in rigid wall with gypsum sealing - SC+90

The product was tested and approved in:

Range	Wall type		Sealing	Classification
SC+90 Ø 100-200 mm	Rigid wall	Aerated concrete ≥ 125 mm	Gypsum	EI 90 (v_e i ↔ o) S - (300Pa)

1



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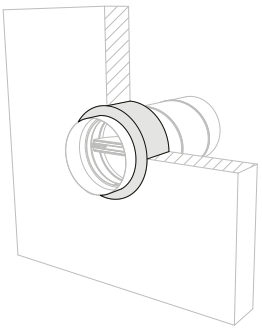

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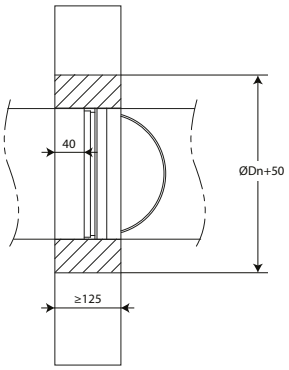

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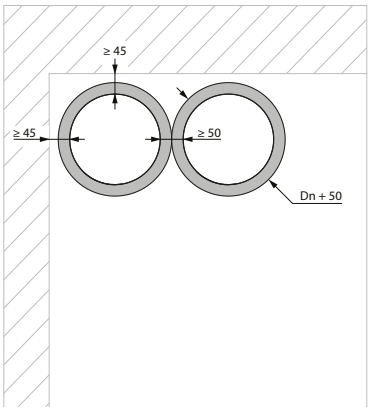

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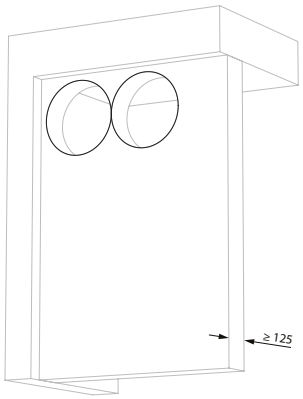

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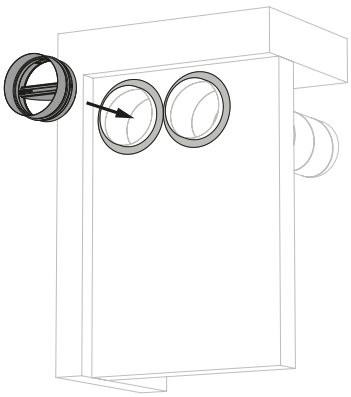

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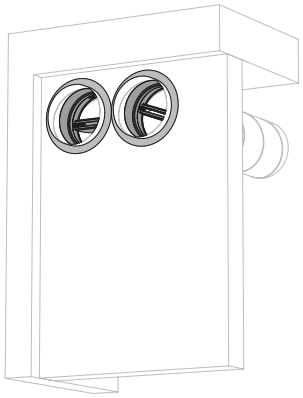

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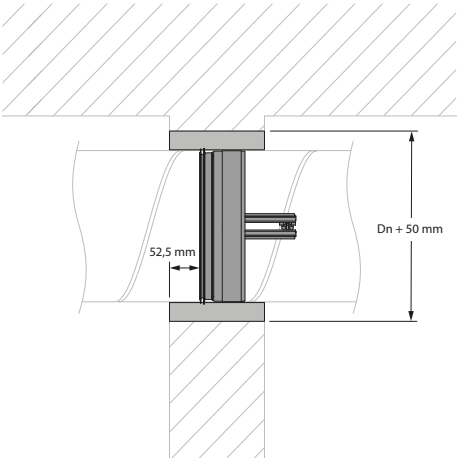
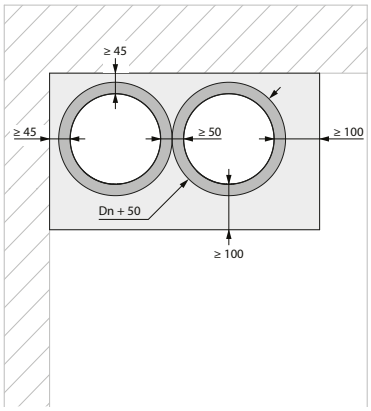


Installation in rigid wall with gypsum sealing + 2 x 12.5 mm gypsum plasterboard type F - SC+90

The product was tested and approved in:

Range	Wall type		Sealing	Classification
SC+90 Ø 100-200 mm	Rigid wall	Aerated concrete ≥ 100 mm	Gypsum + 2 x 12.5 mm gypsum plasterboard Type F (EN520)	EI 90 (v_e i ↔ o) S - (300Pa)

1



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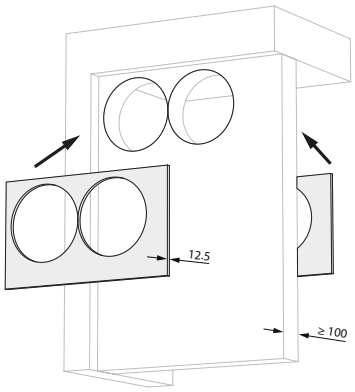

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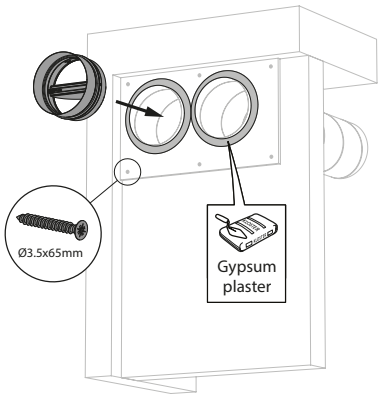
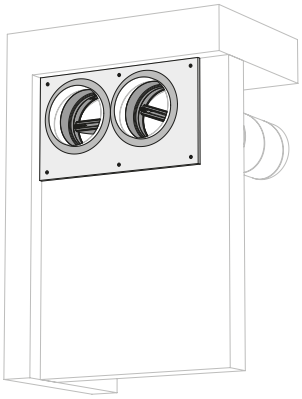


4



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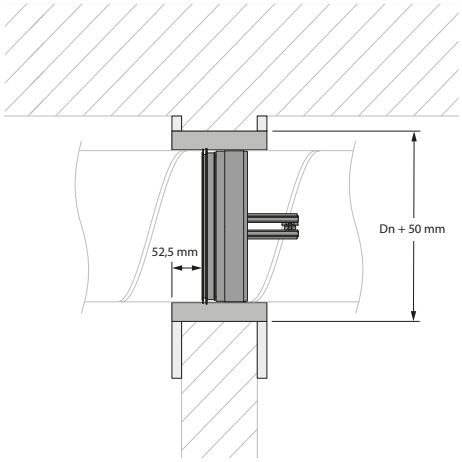
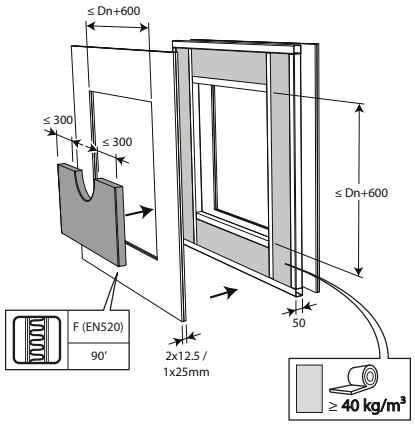


Installation in flexible wall, sealing with rigid stone wool boards with coating - SC+90

The product was tested and approved in:

Range	Wall type		Sealing	Classification
SC+90 Ø 100-200 mm	Flexible wall	Metal studs gypsum plasterboard Type F (EN 520) ≥ 100 mm	Stone wool + coating ≥ 140 kg/m³ + coated duct	EI 90 (v_e i ↔ o) S - (300Pa)

1



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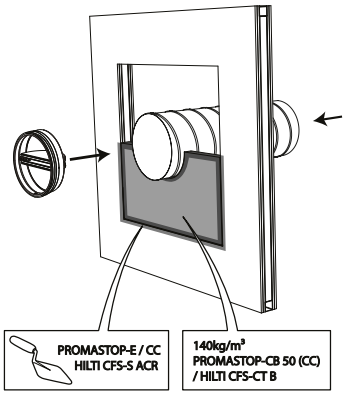
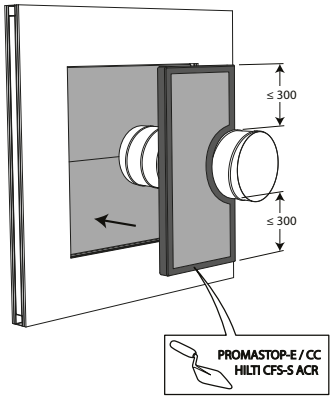


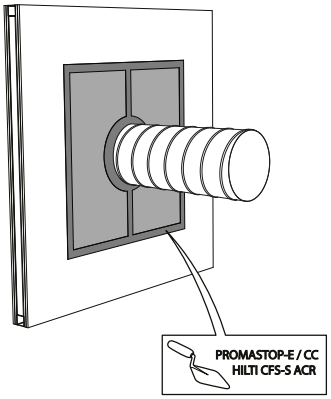
2. The opening in the wall around the duct in which the fire damper cartridge is mounted, is sealed with 2 layers of 50 mm-thick stone wool panels with fire resistant coating on one side (type PROMASTOP-CB 50 / PROMASTOP-CB/CC 50 / HILTI CFS-CT B).

3



3. The joints on these 2 layers must be installed staggered and covered all around the edge with coating (type PROMASTOP-CC / HILTI CFS-S-ACR).

4



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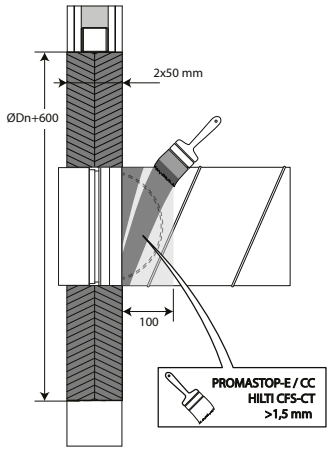
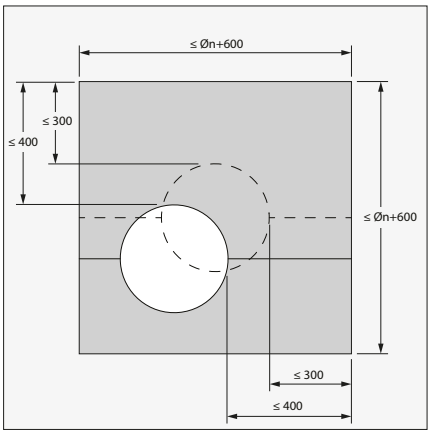


5. The duct is coated with a layer (>1,5 mm) of endothermic coating (type PROMASTOP-CC / HILTI CFS-CT) on a width of 100 mm at the side the open damper blade exceeds.

6



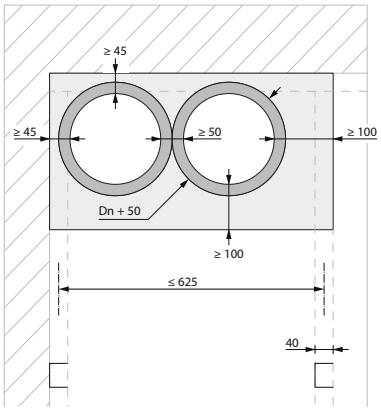
6. The duct in which the damper is inserted doesn't need be centered in the opening (with max dimensions duct + 600 mm). The maximal distance between the damper and the edge of the opening is 400 mm.

Installation in flexible wall with gypsum sealing + 2 x 12.5 mm gypsum plasterboard type F - SC+90

The product was tested and approved in:

Range	Wall type		Sealing	Classification
SC+90 Ø 100-200 mm	Flexible wall	Metal studs gypsum plasterboard Type F (EN 520) ≥ 100 mm	Gypsum + 2 x 12.5 mm gypsum plasterboard Type F (EN520)	EI 90 (v_e i ↔ o) S - (300Pa)

1



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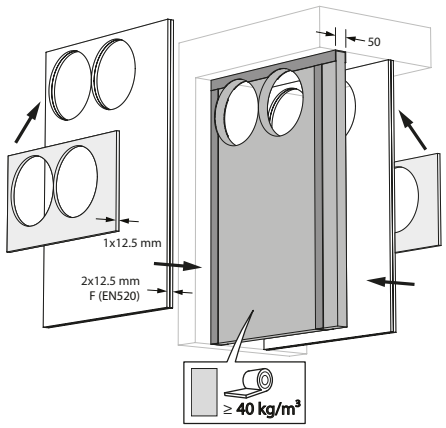

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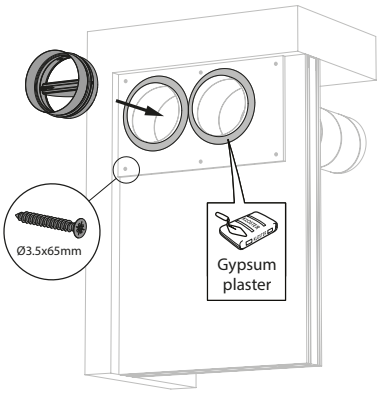

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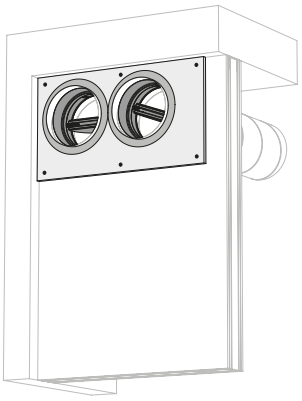

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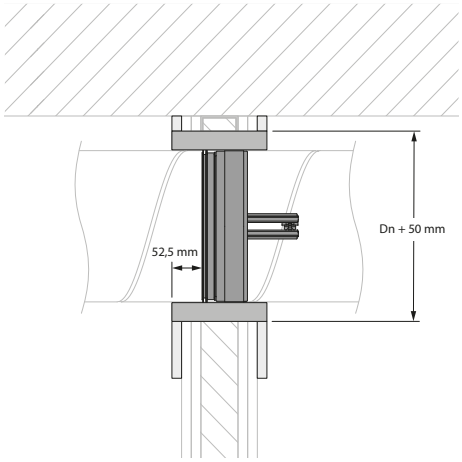
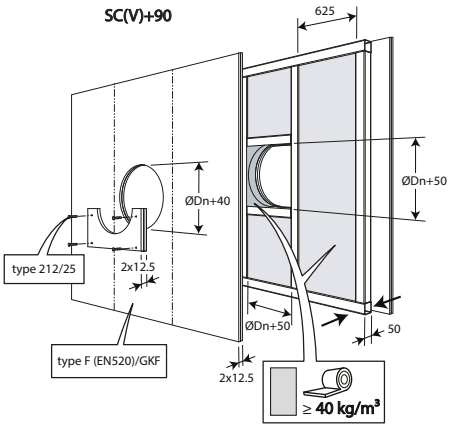


Installation in flexible wall with stonewool sealing, gypsum and cover plates - SC+90

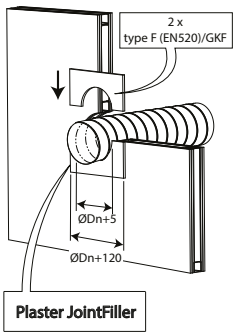
The product was tested and approved in:

Range	Wall type		Sealing	Classification
SC+90 Ø 100-200 mm	Flexible wall	Metal studs gypsum plasterboard Type F (EN 520) ≥ 100 mm	Stone wool ≥ 40 kg/m^3 + gypsum + cover plates	EI 90 (v_e i ↔ o) S - (300Pa)

1



2



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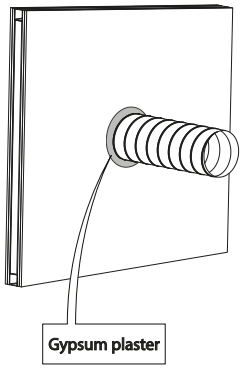

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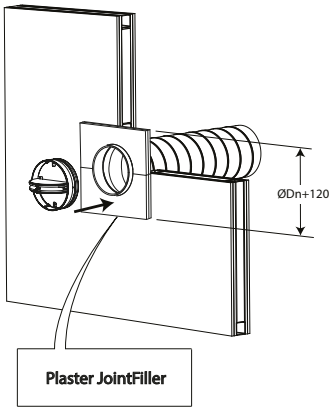

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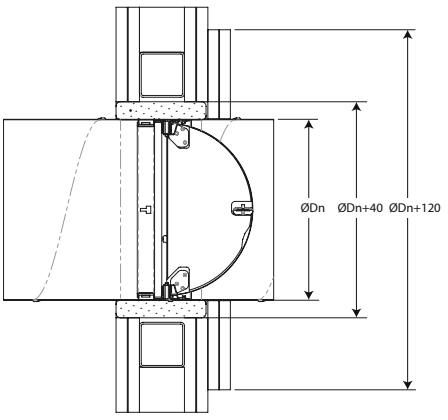
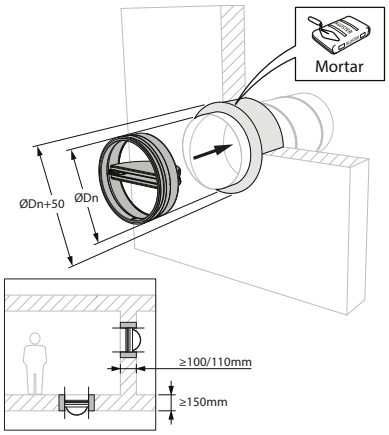


Installation in rigid wall and floor with mortar sealing - SC+60, SC+90 and SC+120

The product was tested and approved in:

Range	Wall type		Sealing	Classification
SC+60 Ø 100-200 mm	Rigid floor	Aerated concrete ≥ 150 mm	Mortar	EI 60 (h_o i ↔ o) S - (300Pa)
SC+90 Ø 100-200 mm	Rigid floor	Aerated concrete ≥ 150 mm	Mortar	EI 90 (h_o i ↔ o) S - (300Pa)
SC+60 Ø 100-200 mm	Rigid wall	Aerated concrete ≥ 100 mm	Mortar	EI 60 (v_e i ↔ o) S - (300Pa)
SC+90 Ø 100-200 mm	Rigid wall	Aerated concrete ≥ 100 mm	Mortar	EI 90 (v_e i ↔ o) S - (300Pa)
SC+120 Ø 100-200 mm	Rigid wall	Reinforced concrete ≥ 110 mm	Mortar	EI 120 (v_e i ↔ o) S - (300Pa)

1



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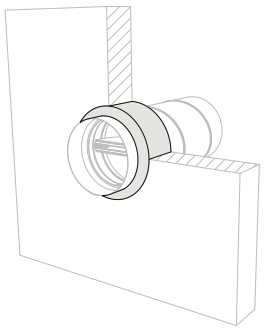

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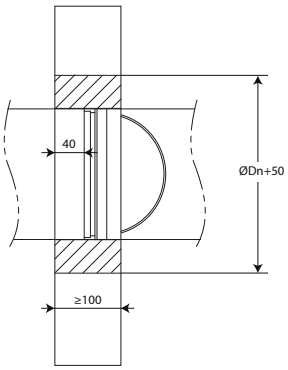


Maintenance

- No specific maintenance required.
- Schedule at least 2 visual checks each year.
- Remove dust and all other particles before use.
- Follow local maintenance regulations (i.e. BS9999 Annex V; NF S 61-933) and EN13306.

  ⚠ Warning: butterfly dampers, in their closed position, can move in the duct when placed under too high pressure.

Weights

Weights

SC+60

ØDn [mm]	100	125	150	160	200					
kg	0,2	0,3	0,4	0,5	0,6					

SC+90

ØDn [mm]	100	125	150	160	200					
kg	0,3	0,4	0,5	0,5	0,7					

SC+120

ØDn [mm]	100	125	160	200						
kg	0,3	0,4	0,5	0,8						

Selection data

SC+

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

SC+60

ØDn [mm]	100	125	150	160	200					
ζ [-]	2,31	1,48	1,09	1,02	0,8					

SC+90

ØDn [mm]	100	125	150	160	200					
ζ [-]	2,31	1,48	1,11	1,04	0,81					

SC+120

ØDn [mm]	100	125	160	200						
ζ [-]	2,31	1,48	1,04	0,81						

Example

Data
Dn= 125 mm (SC+60), v= 5 m/s

Calculation
$\Delta p = 1.48 * (5\ m/s)^2 * 0.6 = 22.2\ Pa$

SC+60 - A-weighted sound power level Lwa in the duct

ØDn [mm]	100	125	150	160	200						
Sn [m²]	0,0035	0,0067	0,0109	0,0129	0,0223						
Sn [%]	44,02	54,49	61,52	63,81	70,78						
Q [m³/h]	287	505	801	934	1.597						60 dB
Δp [Pa]	143,00	116,00	104,00	102,00	96,00						
Q [m³/h]	204	358	568	662	1.132						55 dB
Δp [Pa]	72,00	58,00	52,00	51,00	48,00						
Q [m³/h]	144	254	402	469	802						50 dB
Δp [Pa]	36,00	29,00	26,00	26,00	24,00						
Q [m³/h]	102	180	285	332	569						45 dB
Δp [Pa]	18,00	15,00	13,00	13,00	12,00						
Q [m³/h]	73	127	202	236	403						40 dB
Δp [Pa]	9,00	7,00	7,00	6,00	6,00						
Q [m³/h]	51	90	143	167	286						35 dB
Δp [Pa]	5,00	4,00	3,00	3,00	3,00						

Every air flow lower than the above mentioned maximum value, will meet the listed A-weighted sound power level for the respective dimension.

SC+90 - A-weighted sound power level Lwa in the duct

ØDn [mm]	100	125	150	160	200						
Sn [m²]	0,0029	0,0060	0,0100	0,0119	0,0211						
Sn [%]	37,13	48,77	56,62	59,21	67,02						
Q [m³/h]	287	505	796	928	1.590						60 dB
Δp [Pa]	143,00	116,00	105,00	102,00	96,00						
Q [m³/h]	204	358	564	658	1.127						55 dB
Δp [Pa]	72,00	58,00	53,00	51,00	48,00						
Q [m³/h]	144	254	400	466	799						50 dB
Δp [Pa]	36,00	29,00	26,00	26,00	24,00						
Q [m³/h]	102	180	283	330	566						45 dB
Δp [Pa]	18,00	15,00	15,00	13,00	12,00						
Q [m³/h]	73	127	201	234	401						40 dB
Δp [Pa]	9,00	7,00	7,00	7,00	6,00						
Q [m³/h]	51	90	142	166	284						35 dB
Δp [Pa]	5,00	4,00	4,00	3,00	3,00						

Every air flow lower than the above mentioned maximum value, will meet the listed A-weighted sound power level for the respective dimension.

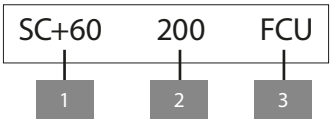
Sample order

SC+120 - A-weighted sound power level Lwa in the duct

ØDn [mm]	100	125	160	200							
Sn [m²]	0,0029	0,0060	0,0119	0,0211							
Sn [%]	37,13	48,77	59,21	67,02							
Q [m³/h]	287	505	928	1.590							**60 dB**
Δp [Pa]	143,00	116,00	102,00	96,00							
Q [m³/h]	204	358	658	1.127							**55 dB**
Δp [Pa]	72,00	58,00	51,00	48,00							
Q [m³/h]	144	254	466	799							**50 dB**
Δp [Pa]	36,00	29,00	26,00	24,00							
Q [m³/h]	102	180	330	566							**45 dB**
Δp [Pa]	18,00	15,00	13,00	12,00							
Q [m³/h]	73	127	234	401							**40 dB**
Δp [Pa]	9,00	7,00	7,00	6,00							
Q [m³/h]	51	90	166	284							**35 dB**
Δp [Pa]	5,00	4,00	3,00	3,00							

Every air flow lower than the above mentioned maximum value, will meet the listed A-weighted sound power level for the respective dimension.

Sample order



1. product
2. diameter
3. option: unipolar end of range switch

Approvals and certificates

All our products are submitted to a number of tests by official test institutes. Reports of these tests form the basis for the approvals of our dampers.

CE 0749 — BCCA-0749-CPR-BC1-606-0464-15650.09-2517

VKF AEAI — 25237 / 25239 / 25240

UKCA — 2822-UKCA-CPR-0062

If the product is manipulated in any other way than described in this manual, Rf-Technologies will decline any responsibility and the guarantee will expire!