

CR120 fire damper

Fix the damper to the supporting construction using suitable fixings (see guidelines wall manufacturer) through the damper's installation lugs.

For larger wall openings (damper Dn + max. 600), CE certification is valid without the installation lugs being fixed into the supporting construction.

The damper doesn't need to be centred in the opening. The max. distance between the damper and the edge of the opening is 425 mm.

Supporting construction (slab or other)

Fire batt, 2 layers of 50mm thick, $\geq 140 \text{ kg/m}^3$. The joints of these 2 layers must be installed staggered ($\geq 20\text{mm}$). For ex: Promat, Hilti.

4-sided opening: the partition can support a deflection head without affecting the installation detail or classification of the fire damper.
3-sided opening: only applicable if no deflection of the supporting construction above is to be expected (see also page 2/2).

Fire batt sealant/coating to be applied on all cut edges and joints both sides of the penetration seal.

Rigid supporting construction to BS EN 1363-1: 2020. Aerated concrete block wall, blockwork, masonry or homogenous concrete wall.

Provide appropriate break-away / flexible joint between fire damper and connecting ductwork on both sides of the assembly

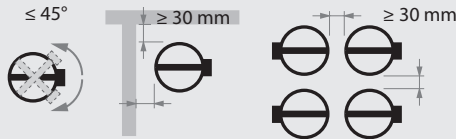
TECHNICAL FEATURES

- Damper range: $\varnothing 100$ till 315.
- Damper can be installed with blade in any position.

360°



- Damper can be installed with mechanism on either side of the wall (independent of fire side).
 - Please consult with the fire batt manufacturer for appropriate sealant/coating
 - More info on larger wall openings. See CR120 Fire Damper Installation manual.
 - A max. of 4 fire dampers can be installed at tested minimal distances from an adjacent horizontal or vertical (supporting) construction or another fire damper. Blade horizontal or max. 45°.
- See detailed guidelines in the CR120 Installation manual.



- To be read in conjunction with the CR120 Fire Damper Installation manual.
- Guidelines acc. to DW144/145 (not required for CE Certification):
 - 1 installation lug is included by default. A 2nd lug, as shown in the drawings, is available upon request.
 - Provide appropriate break-away / flexible joint between fire damper and connecting ductwork on both sides of the assembly (DW145: Breakaway and flexible joints should incorporate materials, fixings, clamps, etc. that are manufactured from non-fire-resistant material with a low melting point such as aluminium, plastic etc.).
 - Provide space to access the internal components of a damper through an adjacent ductwork opening.
 - Supports to the connecting ductwork should be provided in accordance with the requirements of BESA Specification DW/144.
- Dimensions in mm unless otherwise stated.

INSTALLATION MANUAL



INSPECTION AND HANDOVER CHECK LIST



PLAN TITLE

CR120 fire damper in rigid supporting construction. Installation detail with fire batt.

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CLASSIFICATION

EI 90 (ve i↔o)S



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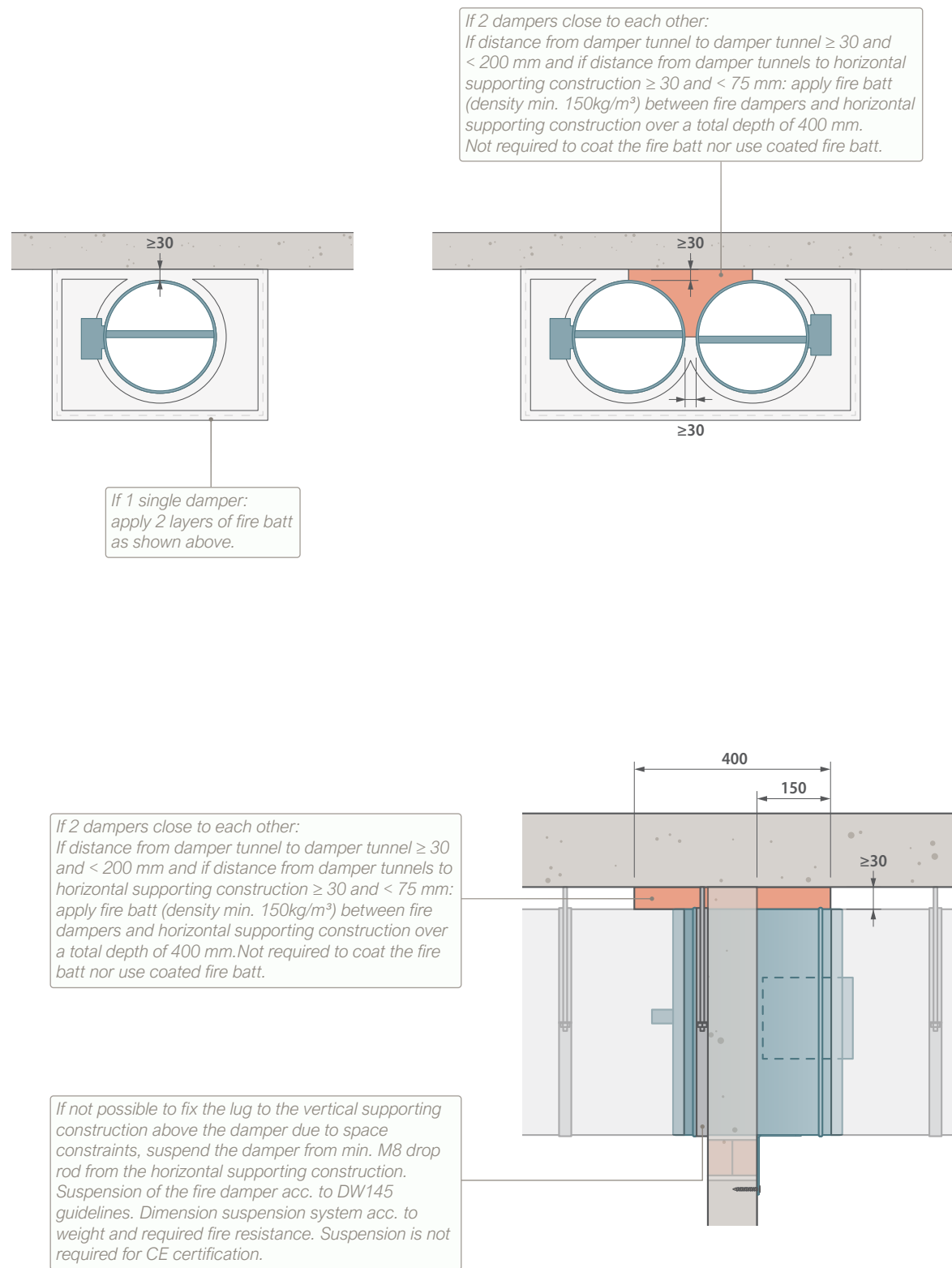
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Rf-Technologies



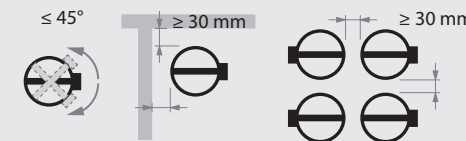
TECHNICAL FEATURES

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INSTALLATION MANUAL



INSPECTION AND HANDOVER CHECK LIST



PLAN TITLE

CR120 fire damper in rigid supporting construction.
Installation detail with fire batt.

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CLASSIFICATION

EI 90 (ve i↔o)S



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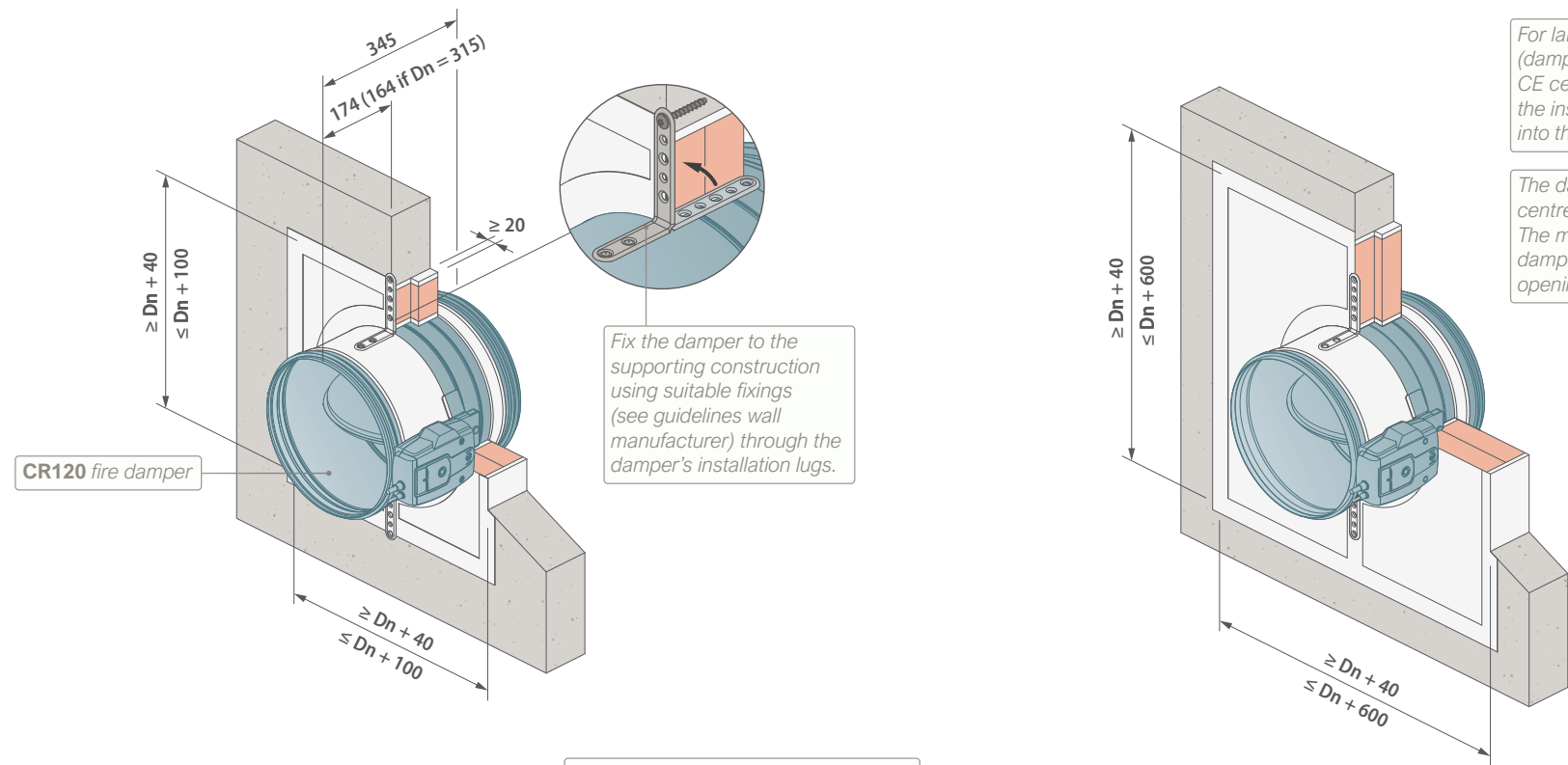
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For larger wall openings (damper Dn + max. 600), CE certification is valid without the installation lugs being fixed into the supporting construction.

The damper doesn't need to be centred in the opening. The max. distance between the damper and the edge of the opening is 425 mm.

Supporting construction (slab or other)

Fire batt, 2 layers of 50mm thick, $\geq 140 \text{ kg/m}^3$. The joints of these 2 layers must be installed staggered ($\geq 20\text{mm}$). For ex: Promat, Hilti.

Fire batt sealant/ coating to be applied on the damper tunnel.

Fire batt sealant/coating to be applied on all cut edges and joints both sides of the penetration seal.

Rigid supporting construction to BS EN 1363-1: 2020. Aerated concrete block wall, blockwork, masonry or homogenous concrete wall.

Provide appropriate break-away / flexible joint between fire damper and connecting ductwork on both sides of the assembly

4-sided opening: the partition can support a deflection head without affecting the installation detail or classification of the fire damper. 3-sided opening: only applicable if no deflection of the supporting construction above is to be expected (see also page 2/2).

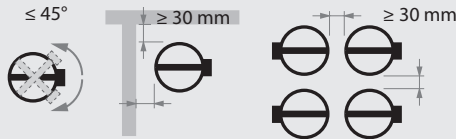
TECHNICAL FEATURES

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- Damper can be installed with blade in any position.

360°



- Damper can be installed with mechanism on either side of the wall (independent of fire side).
 - Please consult with the fire batt manufacturer for appropriate sealant/ coating
 - More info on larger wall openings. See CR120 Fire Damper Installation manual.
 - A max. of 4 fire dampers can be installed at tested minimal distances from an adjacent horizontal or vertical (supporting) construction or another fire damper. Blade horizontal or max. 45°.
- See detailed guidelines in the CR120 Installation manual.



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 - Provide space to access the internal components of a damper through an adjacent ductwork opening.
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- Dimensions in mm unless otherwise stated.

INSTALLATION MANUAL



INSPECTION AND HANDOVER CHECK LIST



PLAN TITLE

CR120 fire damper in rigid supporting construction. Installation detail with fire batt and coating on the damper tunnel.

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CLASSIFICATION

EI 120 (ve i↔o)S



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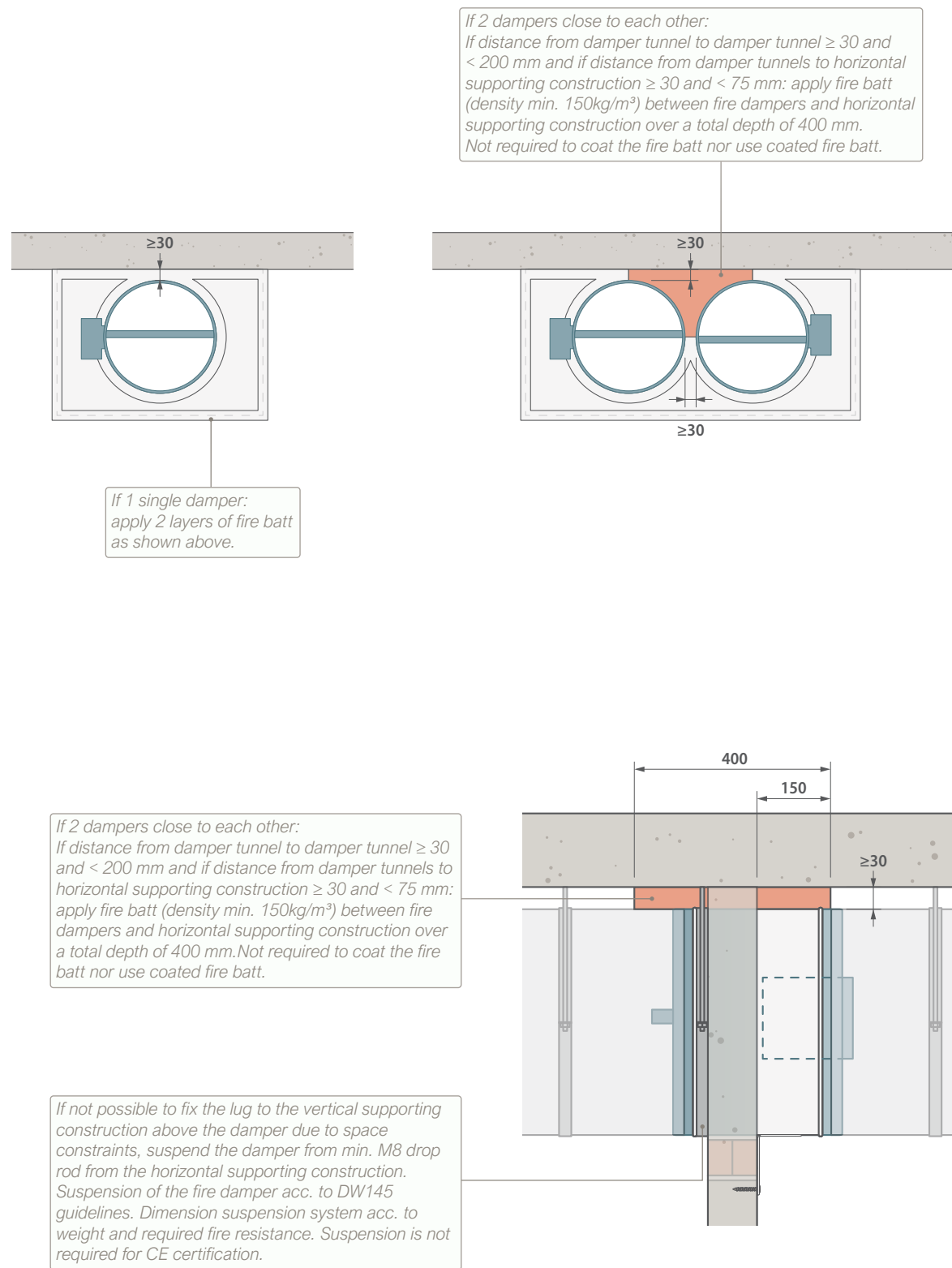
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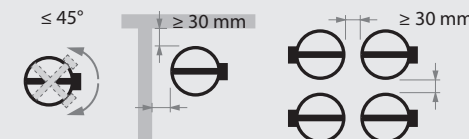
TECHNICAL FEATURES

- Damper range: $\varnothing 100$ till 315.
- Damper can be installed with blade in any position.

360°



- Damper can be installed with mechanism on either side of the wall (independent of fire side).
- Please consult with the fire batt manufacturer for appropriate sealant/ coating
- More info on larger wall openings. See CR120 Fire Damper Installation manual.
- A max. of 4 fire dampers can be installed at tested minimal distances from an adjacent horizontal or vertical (supporting) construction or another fire damper. Blade horizontal or max. 45° . See detailed guidelines in the CR120 Installation manual.



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 - Provide space to access the internal components of a damper through an adjacent ductwork opening.
 - Supports to the connecting ductwork should be provided in accordance with the requirements of BESA Specification DW144.
- Dimensions in mm unless otherwise stated.

INSTALLATION MANUAL



INSPECTION AND HANDOVER CHECK LIST



PLAN TITLE

CR120 fire damper in rigid supporting construction. Installation detail with fire batt and coating on the damper tunnel.

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CLASSIFICATION

EI 120 (ve i↔o)S



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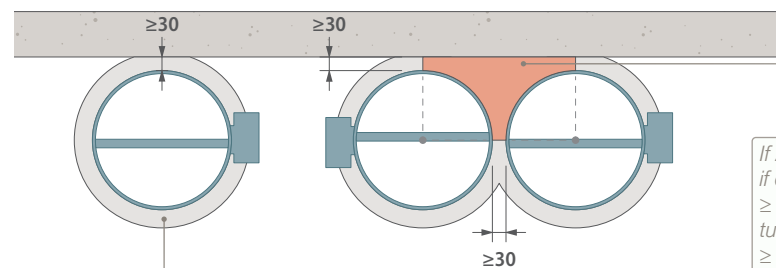
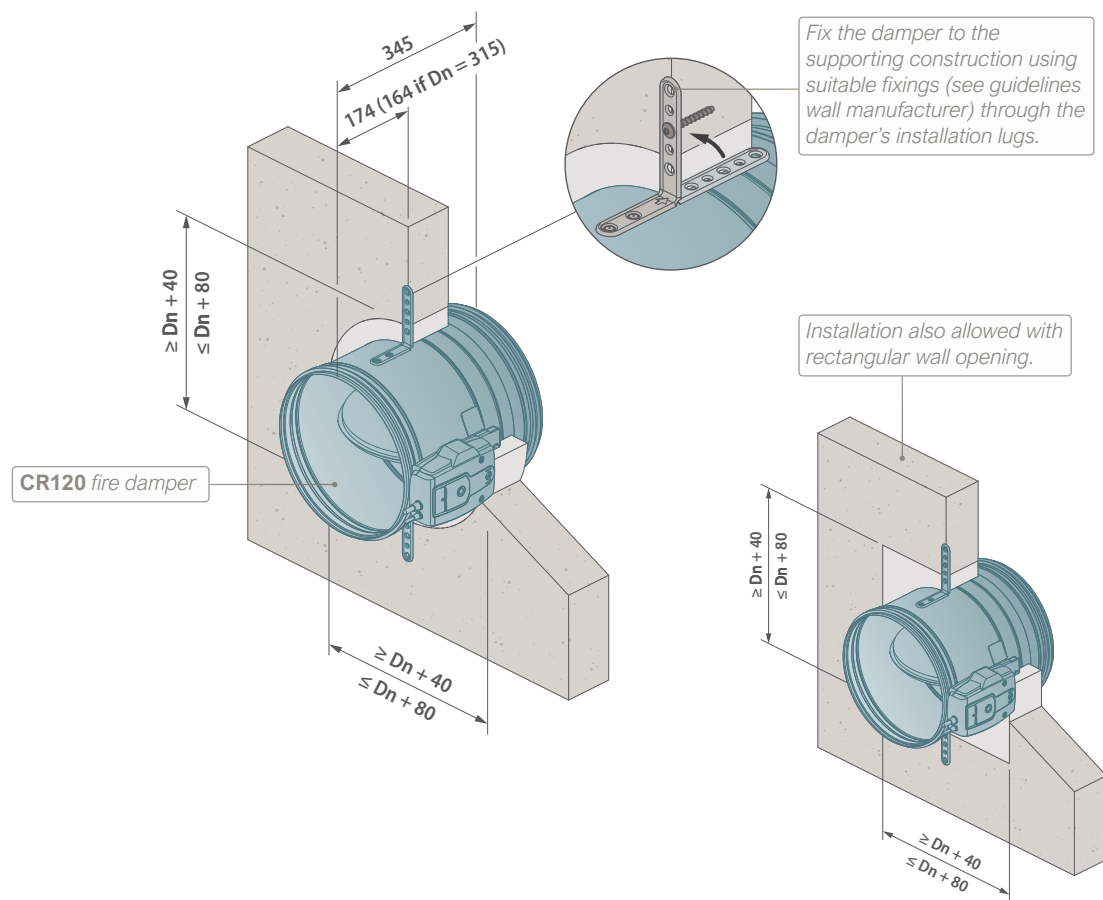
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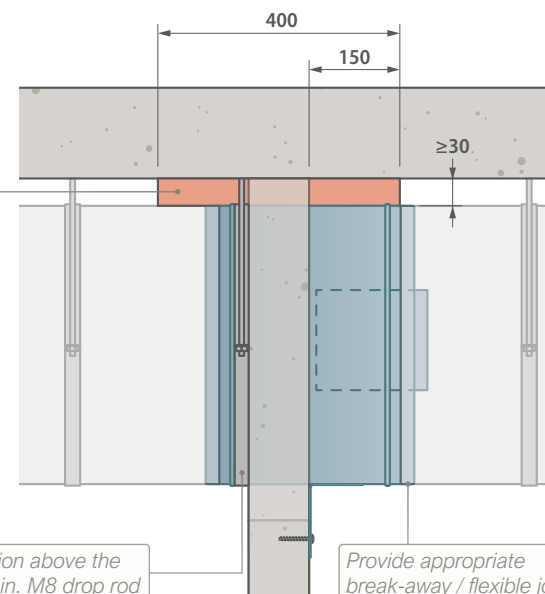
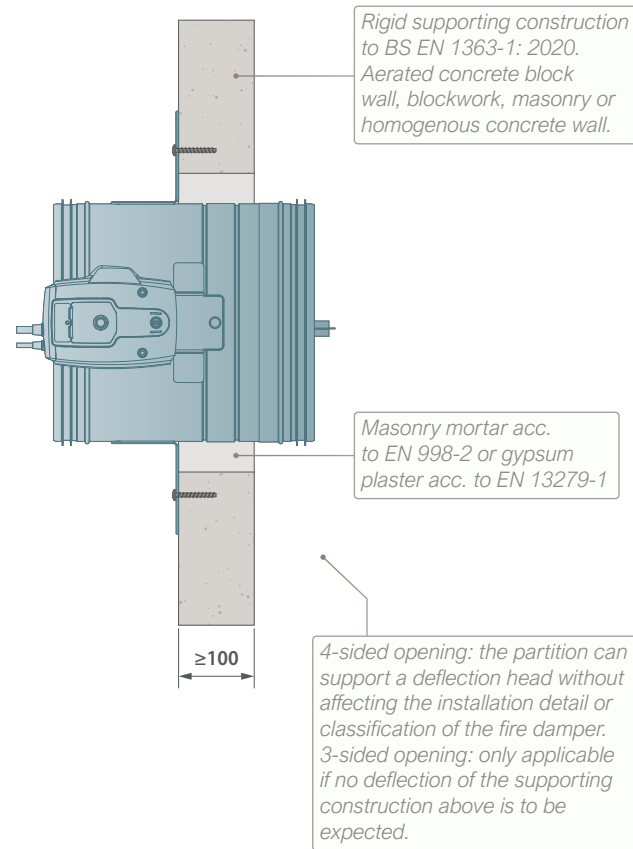
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If 1 single damper:
apply masonry mortar
or gypsum plaster as
shown above.

If 2 dampers close to each other:
if distance from damper tunnel to damper tunnel
≥ 30 and < 200 mm and if distance from damper
tunnels to horizontal supporting construction
≥ 30 and < 75 mm: apply fire batt (density min.
150kg/m³) between fire dampers and horizontal
supporting construction over a total depth of
400 mm. Not required to coat the fire batt nor use
coated fire batt.

If not possible to fix the lug to the vertical supporting construction above the
damper due to space constraints, suspend the damper from min. M8 drop rod
from the horizontal supporting construction. Suspension of the fire damper
acc. to DW145 guidelines. Dimension suspension system acc. to weight and
required fire resistance. Suspension is not required for CE certification.



Provide appropriate
break-away / flexible joint
between fire damper and
connecting ductwork on
both sides of the assembly

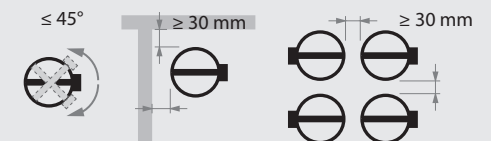
TECHNICAL FEATURES

- Damper range: ø100 till 315.
- Damper can be installed with blade in any position.

360°



- Damper can be installed with mechanism on either side of the wall (independent of fire side).
 - A max. of 4 fire dampers can be installed at tested minimal distances from an adjacent horizontal or vertical (supporting) construction or another fire damper. Blade horizontal or max. 45°.
- See detailed guidelines in the CR120 Installation manual.



- To be read in conjunction with the CR120 Fire Damper Installation manual.
- Guidelines acc. to DW144/145 (not required for CE Certification):
 - 1 installation lug is included by default. A 2nd lug, as shown in the drawings, is available upon request.
 - Provide appropriate break-away / flexible joint between fire damper and connecting ductwork on both sides of the assembly (DW145: Breakaway and flexible joints should incorporate materials, fixings, clamps, etc. that are manufactured from non-fire-resistant material with a low melting point such as aluminium, plastic etc.).
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INSTALLATION MANUAL



INSPECTION AND
HANDOVER CHECK LIST



PLAN TITLE

CR120 fire damper in rigid supporting construction
Installation detail with mortar or gypsum plaster.

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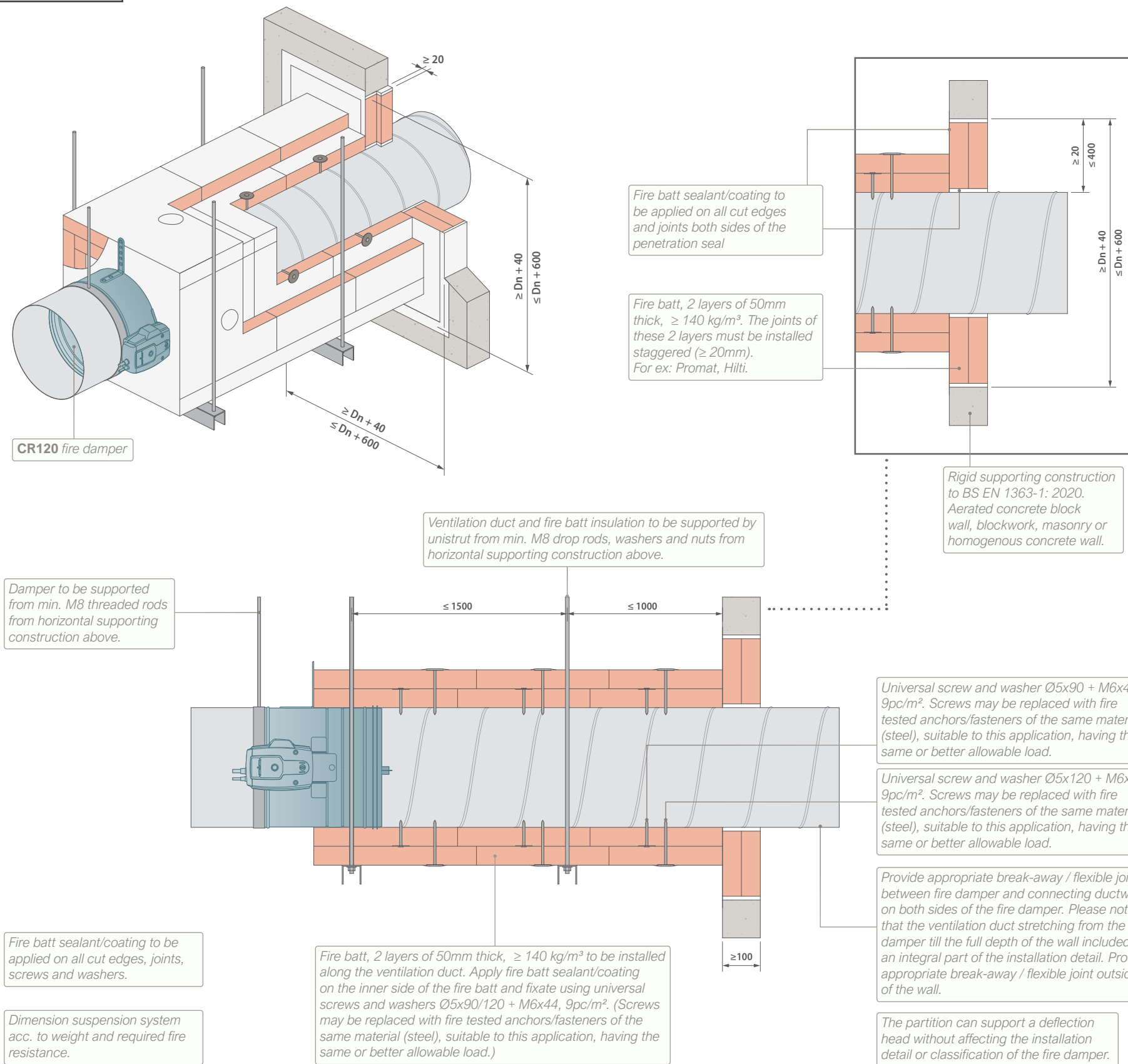
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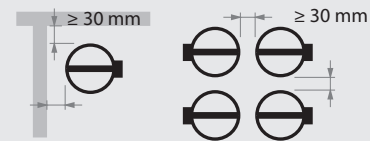
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CR120 FIRE DAMPER



TECHNICAL FEATURES

- Damper range: $\text{Ø}100$ till 315.
- Install the damper with the blade in horizontal position.
- Damper can be installed with mechanism on either side of the wall (independent of fire side).
- Based on our CE certification, the damper may be installed remote from wall at any distance.
- Please consult with the fire batt manufacturer for appropriate sealant/coating.
- A max. of 4 fire dampers can be installed at tested minimal distances from an adjacent horizontal or vertical (supporting) construction or another fire damper. Install with damper blade in horizontal position. See detailed guidelines in the CR120 Installation manual.



- To be read in conjunction with the CR120 Fire Damper Installation manual.
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INSTALLATION MANUAL



INSPECTION AND HANDOVER CHECK LIST



PLAN TITLE

CR120 fire damper remote from a rigid supporting construction
Installation detail with fire batt

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