

Supporting construction (slab or other)

Stone wool ≥ 40 kg/m³ (optional)

Fire batt, 2 layers of 50mm thick, ≥ 140 kg/m³. The joints of these 2 layers must be installed staggered (≥ 20mm). For ex: Promat, Hilti.

Steel stud ≥ 50 mm

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

For EI60S: 2x 12.5mm gypsum boards type A both sides.
For EI90S: 2x 12.5mm gypsum boards type F both sides.

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).

≥100

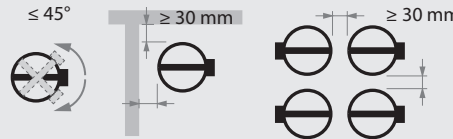
TECHNICAL FEATURES

- 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).
 - Please consult with the fire batt manufacturer for appropriate sealant/ coating
 - More info on larger wall openings. See CR60 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 CR60 Installation manual.



- To be read in conjunction with the CR60 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

CR60 fire damper in flexible supporting construction.
Installation detail with fire batt.

PAGE

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CLASSIFICATION

EI 60/90 (ve i↔o)S



REV

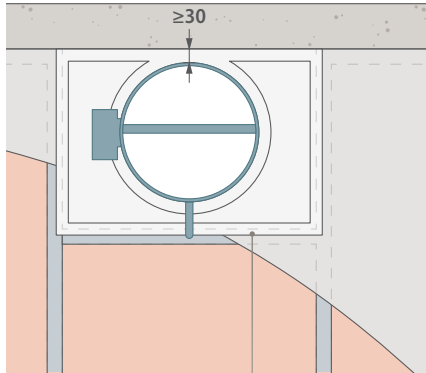
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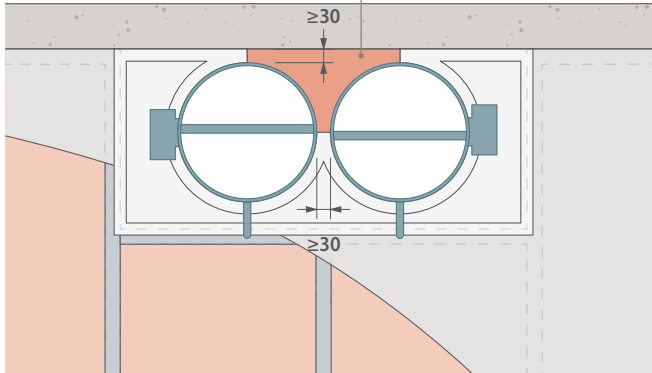
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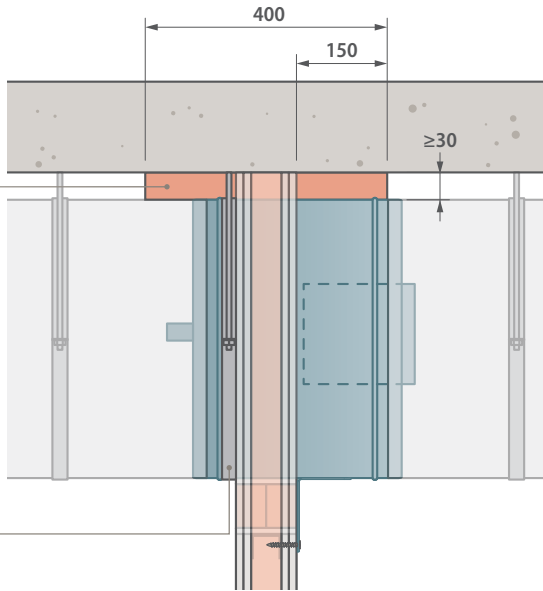


If 1 single damper:
apply 2 layers of fire batt
as shown above.



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 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.

3-sided opening: only
applicable if no deflection of
the supporting construction
above is to be expected.

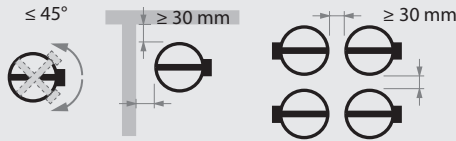
TECHNICAL FEATURES

- 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).
 - Please consult with the fire batt manufacturer for appropriate sealant/ coating
 - More info on larger wall openings. See CR60 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 CR60 Installation manual.



- To be read in conjunction with the CR60 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

CR60 fire damper in flexible supporting construction.
Installation detail with fire batt.

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CLASSIFICATION

EI 60/90 (ve i↔→)S



REV

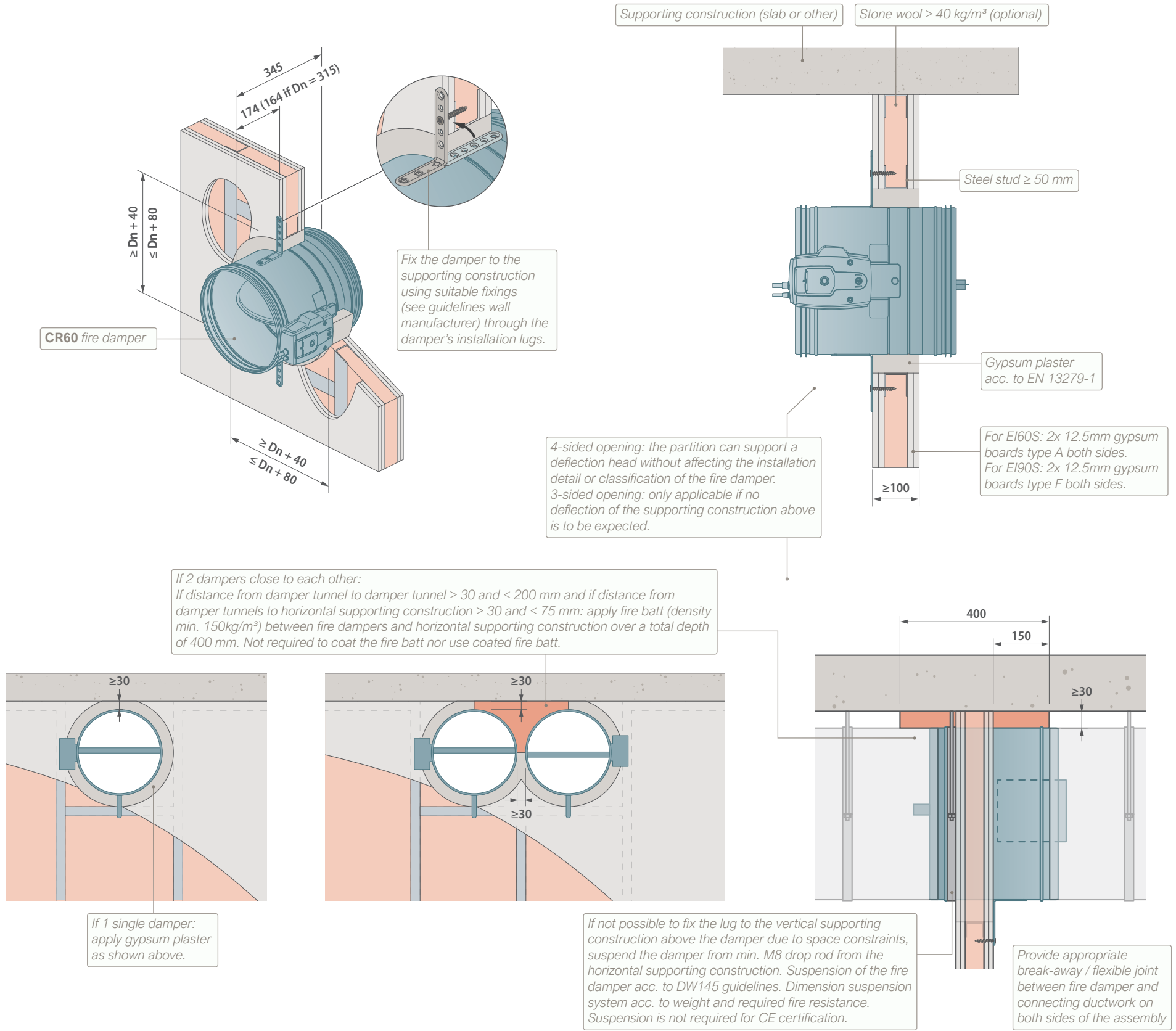
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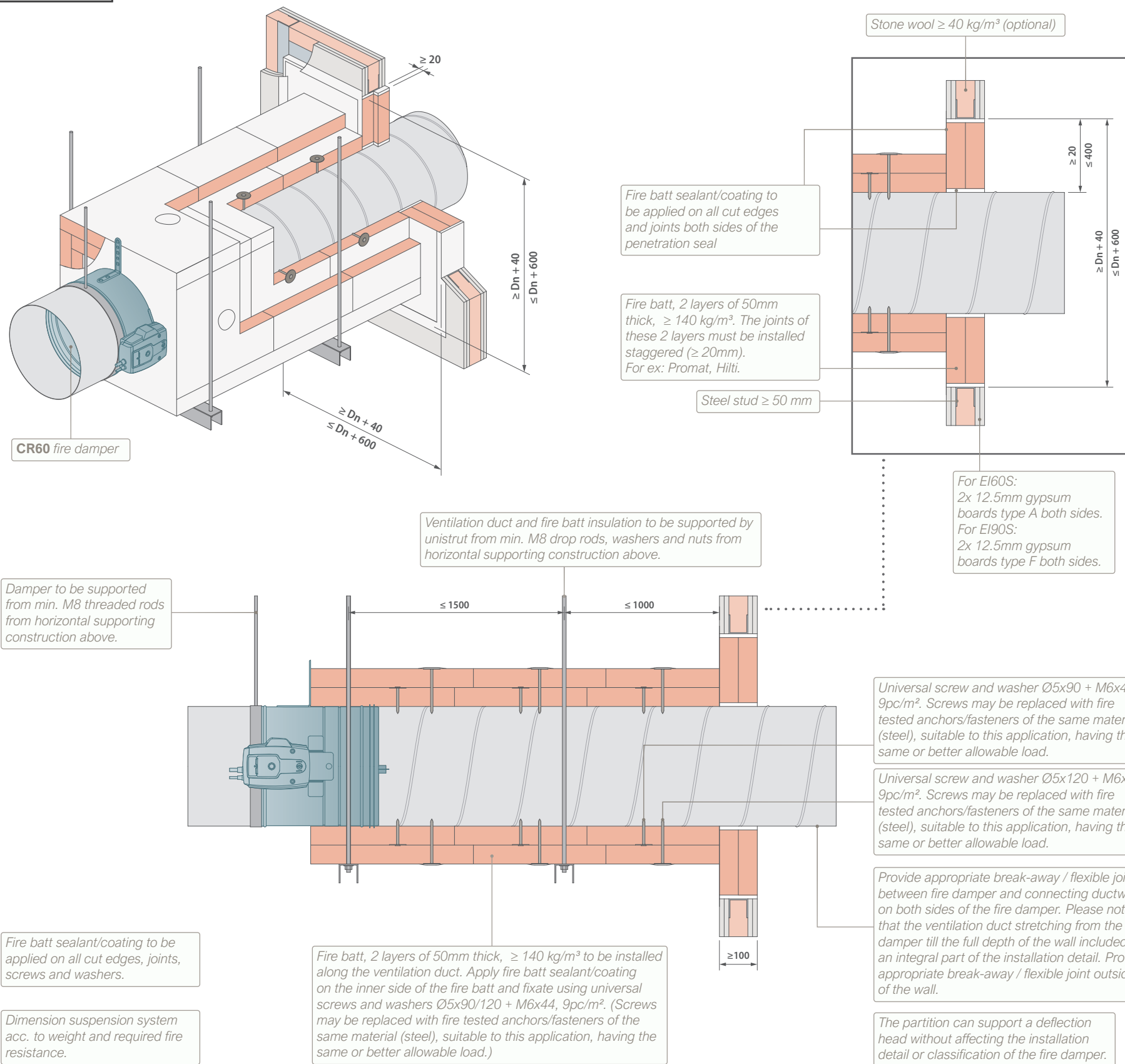
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TECHNICAL FEATURES <ul style="list-style-type: none">Damper range: ø100 till 315.Damper can be installed with blade in any position. <div><div>360°</div><div></div></div> <ul style="list-style-type: none">Damper can be installed with mechanism on either 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 CR60 Installation manual. <div><div>≤ 45°</div><div></div><div><div>≥ 30 mm</div><div></div><div><div>≥ 30 mm</div><div></div></div></div><ul style="list-style-type: none">To be read in conjunction with the CR60 Fire Damper Installation manual.Guidelines acc. to DW144/145 (not required for CE Certification):<ul style="list-style-type: none">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.</div>		
INSTALLATION MANUAL <div></div>		INSPECTION AND HANDOVER CHECK LIST <div></div>
PLAN TITLE <div>CR60 fire damper in flexible supporting construction Installation detail with gypsum plaster.</div>		PAGE <div>1/1</div>
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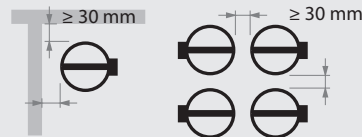


TECHNICAL FEATURES

- 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 CR60 Installation manual.



- To be read in conjunction with the CR60 Fire Damper Installation manual.
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INSTALLATION MANUAL



INSPECTION AND HANDOVER CHECK LIST



PLAN TITLE

CR60 fire damper remote from a flexible supporting construction
Installation detail with fire batt

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CLASSIFICATION

EI 60/90 (ve i-→o)S



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