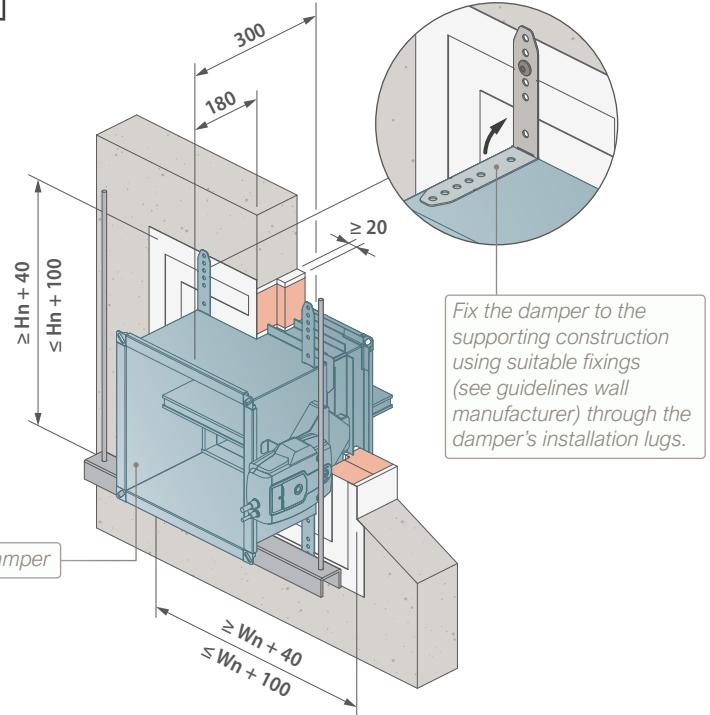
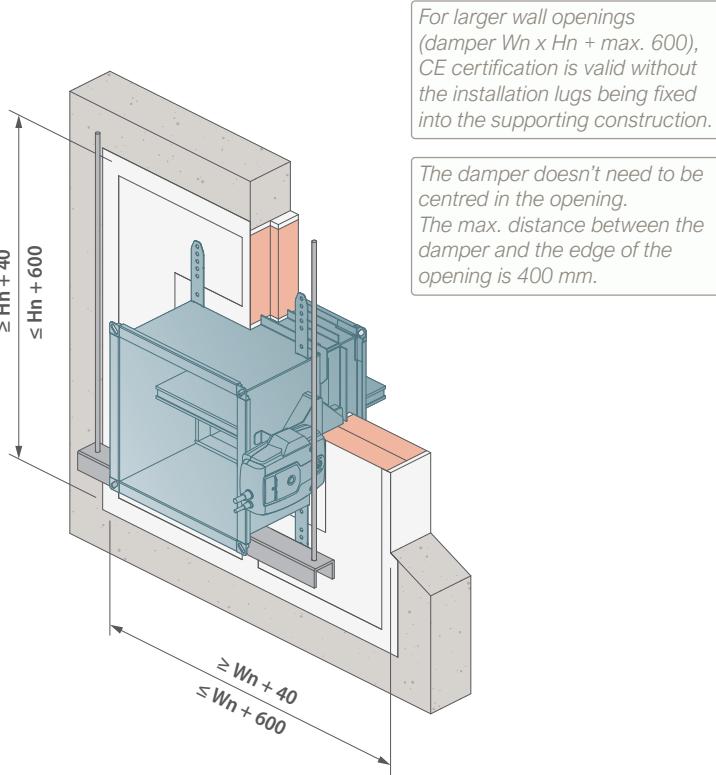


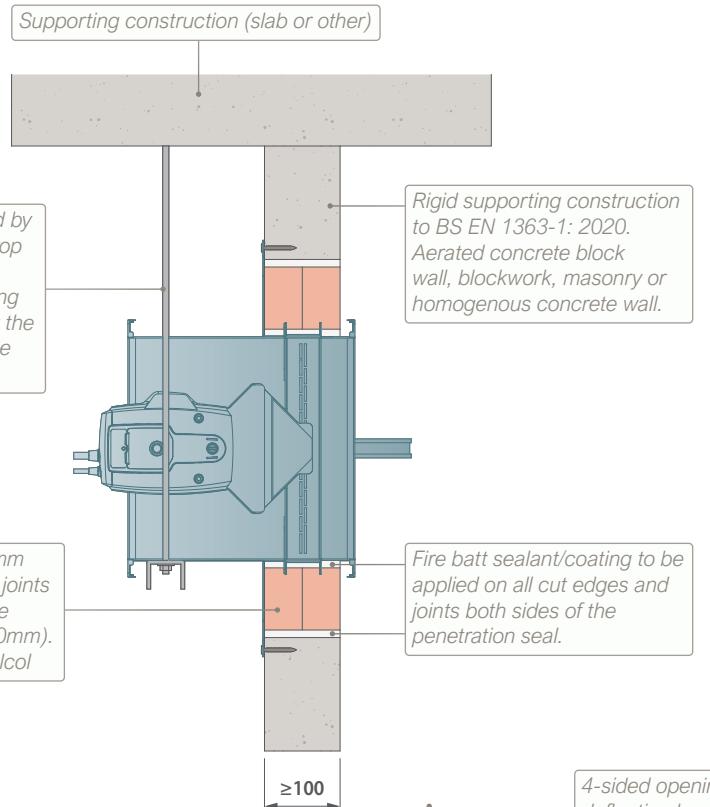
## CU-LT FIRE DAMPER



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  $Wn \times Hn + \text{max. } 600$ ), CE certification is valid without the installation lugs being fixed into the supporting construction.



Damper to be supported by unistrut from min. M8 drop rods, washers and nuts from horizontal supporting construction above. Let the fire damper rest upon the unistrut, do not fixate.

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, Mulcol

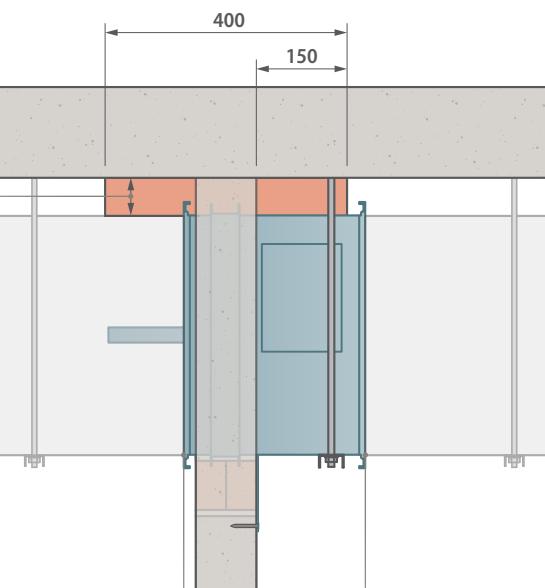
Rigid supporting construction to BS EN 1363-1: 2020. Aerated concrete block wall, blockwork, masonry or homogenous concrete wall.

- If distance from damper tunnel to horizontal supporting construction  $\geq 75 \text{ mm}$  : apply 2 layers of fire batt as shown above.
- If distance from damper tunnel to horizontal supporting construction  $\geq 50 \text{ and } < 75 \text{ mm}$  : apply fire batt (density min.  $150 \text{ kg/m}^3$ ) between fire damper and horizontal supporting construction over a total depth of  $400 \text{ mm}$ . Not required to coat the fire batt nor use coated fire batt.
- If distance from damper tunnel to horizontal supporting construction  $\geq 25^*$  and  $< 50 \text{ mm}$  : apply stone wool (density min.  $40 \text{ kg/m}^3$ ) compressed by 40% between fire damper and horizontal supporting construction over a total depth of  $400 \text{ mm}$ . Not required to coat the stone wool.

\* 35 if CU-LT Hn = 100 mm

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.

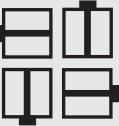
4-sided opening: the wall can support a deflection head without affecting the installation detail or classification of the fire damper. 3-sided opening: only applicable if no deflection of the supporting construction above is to be expected.



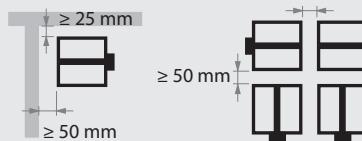
Provide appropriate break-away / flexible joint between fire damper and connecting ductwork on both sides of the assembly

## TECHNICAL FEATURES

- Damper range ( $W \times H$ ): 200x100 till 800x600.
- Damper can be installed with blade in vertical or horizontal position.



- 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 CU-LT Fire Damper installation manual.
- A max. of 2x2 fire dampers can be installed at tested minimal distances from an adjacent horizontal or vertical (supporting) construction or another fire damper. See detailed guidelines in the CU-LT installation manual.



- To be read in conjunction with the CU-LT Fire Damper installation manual.
- Guidelines acc. to DW144/145 (not required for CE certification):
  - Installation lugs as shown in the drawings are 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. Rf-T can provide an inspection opening on the damper body upon request (option UL).
  - 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

CU-LT fire damper in rigid supporting construction. Installation detail with fire batt.

PAGE  
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## CLASSIFICATION

EI 60/90 (ve i↔o)S

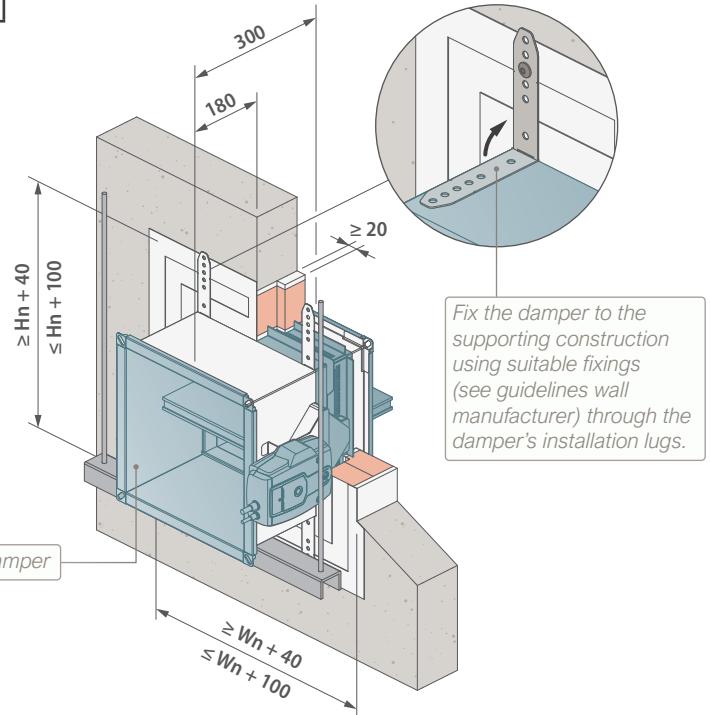


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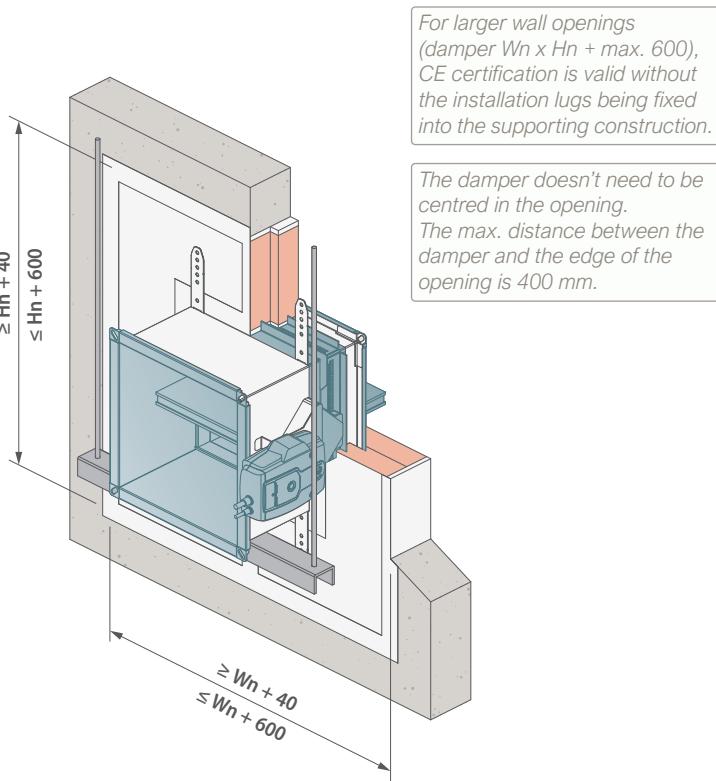
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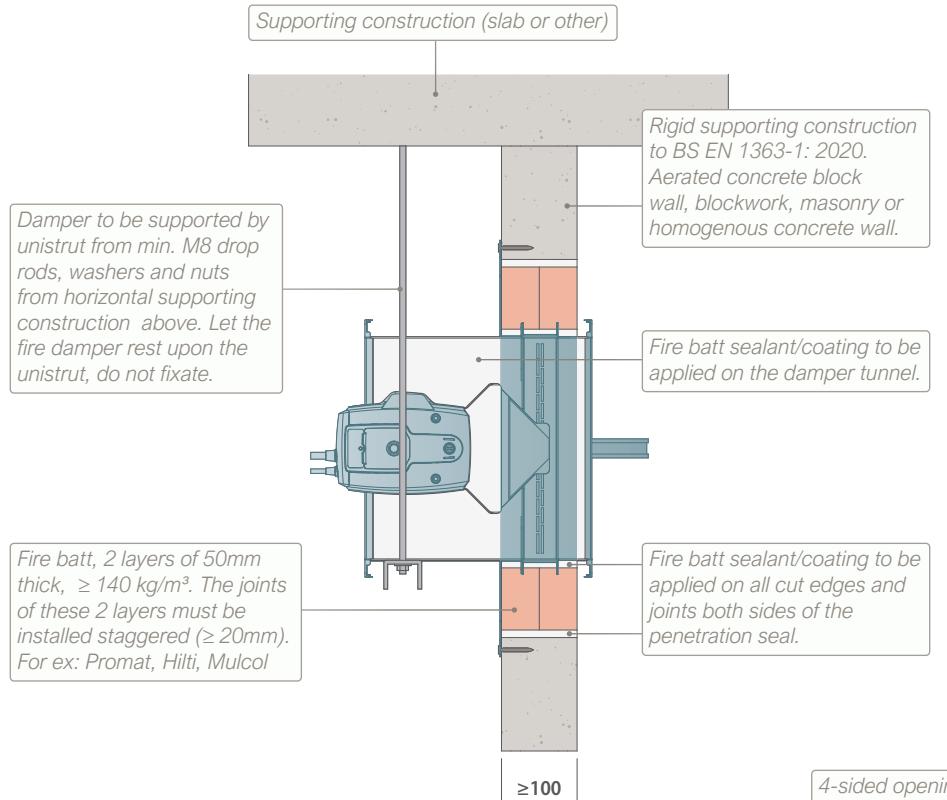
## CU-LT FIRE DAMPER



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  $Wn \times Hn + \text{max. } 600$ ), CE certification is valid without the installation lugs being fixed into the supporting construction.



Damper to be supported by unistrut from min. M8 drop rods, washers and nuts from horizontal supporting construction above. Let the fire damper rest upon the unistrut, do not fixate.

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, Mulcol

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.

4-sided opening: the wall 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.

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

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.

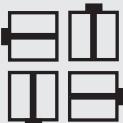
\* 35 if CU-LT Hn = 100 mm



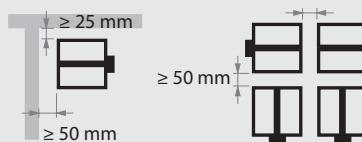
Provide appropriate break-away / flexible joint between fire damper and connecting ductwork on both sides of the assembly tunnel.

## TECHNICAL FEATURES

- Damper range (WxH): 200x100 till 800x600.
- Damper can be installed with blade in vertical or horizontal position.



- 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 CU-LT Fire Damper installation manual.
- A max. of 2x2 fire dampers can be installed at tested minimal distances from an adjacent horizontal or vertical (supporting) construction or another fire damper. See detailed guidelines in the CU-LT installation manual.



- To be read in conjunction with the CU-LT Fire Damper installation manual.
- Guidelines acc. to DW144/145 (not required for CE certification):
  - Installation lugs as shown in the drawings are 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. Rf-T can provide an inspection opening on the damper body upon request (option UL).
  - 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

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

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## CLASSIFICATION

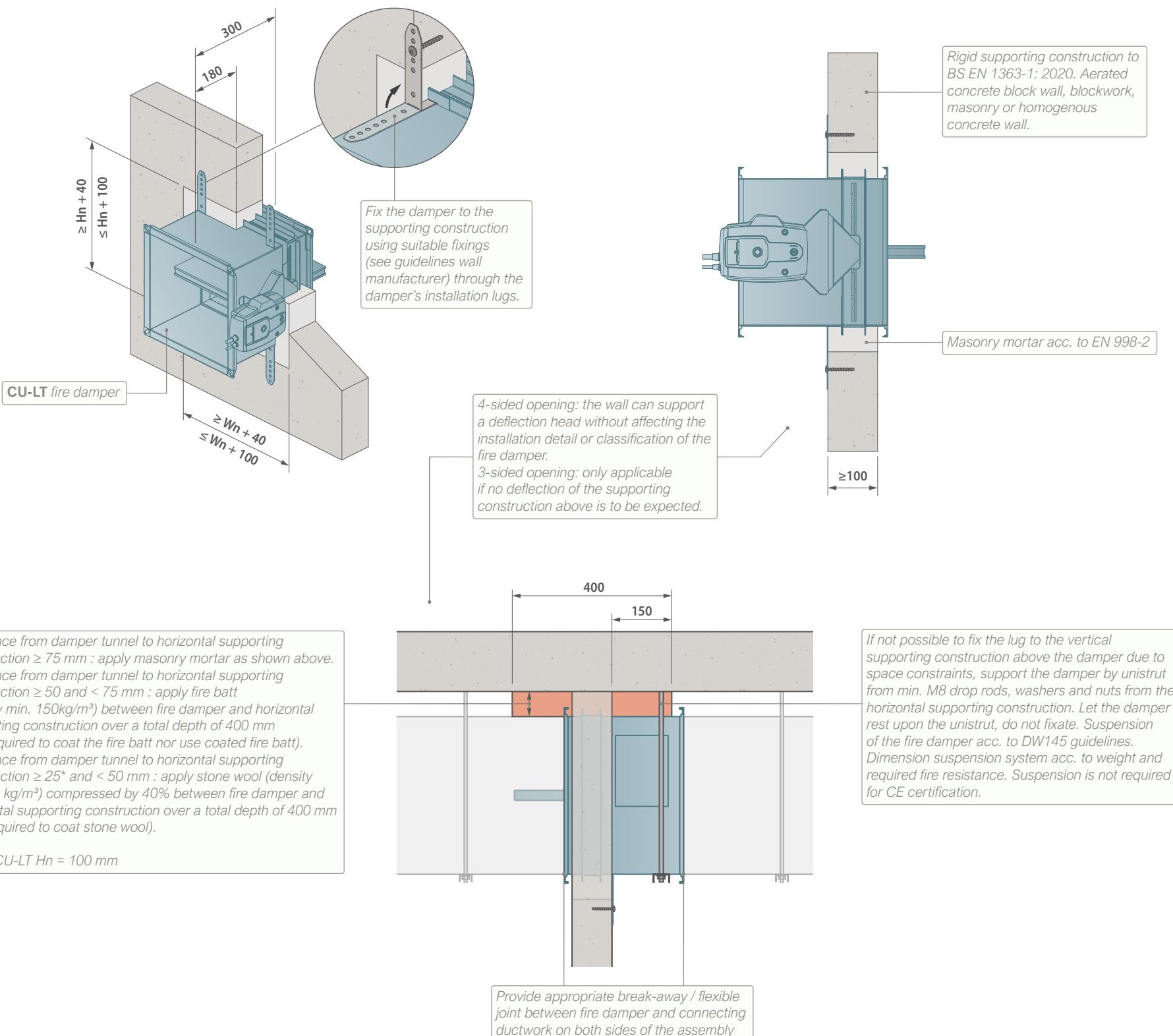
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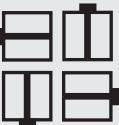
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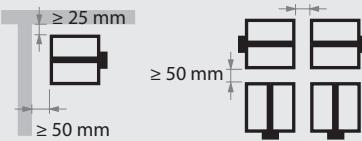


## TECHNICAL FEATURES

- Damper range (WxH): 200x100 till 800x600.
- Damper can be installed with blade in vertical or horizontal position



- Damper can be installed with mechanism on either side of the wall (independent of fire side).
- A max. of 2x2 fire dampers can be installed at tested minimal distances from an adjacent horizontal or vertical (supporting) construction or another fire damper. See detailed guidelines in the CU-LT installation manual.



- To be read in conjunction with the CU-LT Fire Damper installation manual.
- Guidelines acc. to DW144/145 (not required for CE certification):
  - Installation lugs as shown in the drawings are 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. Rf-T can provide an inspection opening on the damper body upon request (option UL).
  - 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

CU-LT fire damper in rigid supporting construction  
Installation detail with mortar

## PAGE

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## CLASSIFICATION

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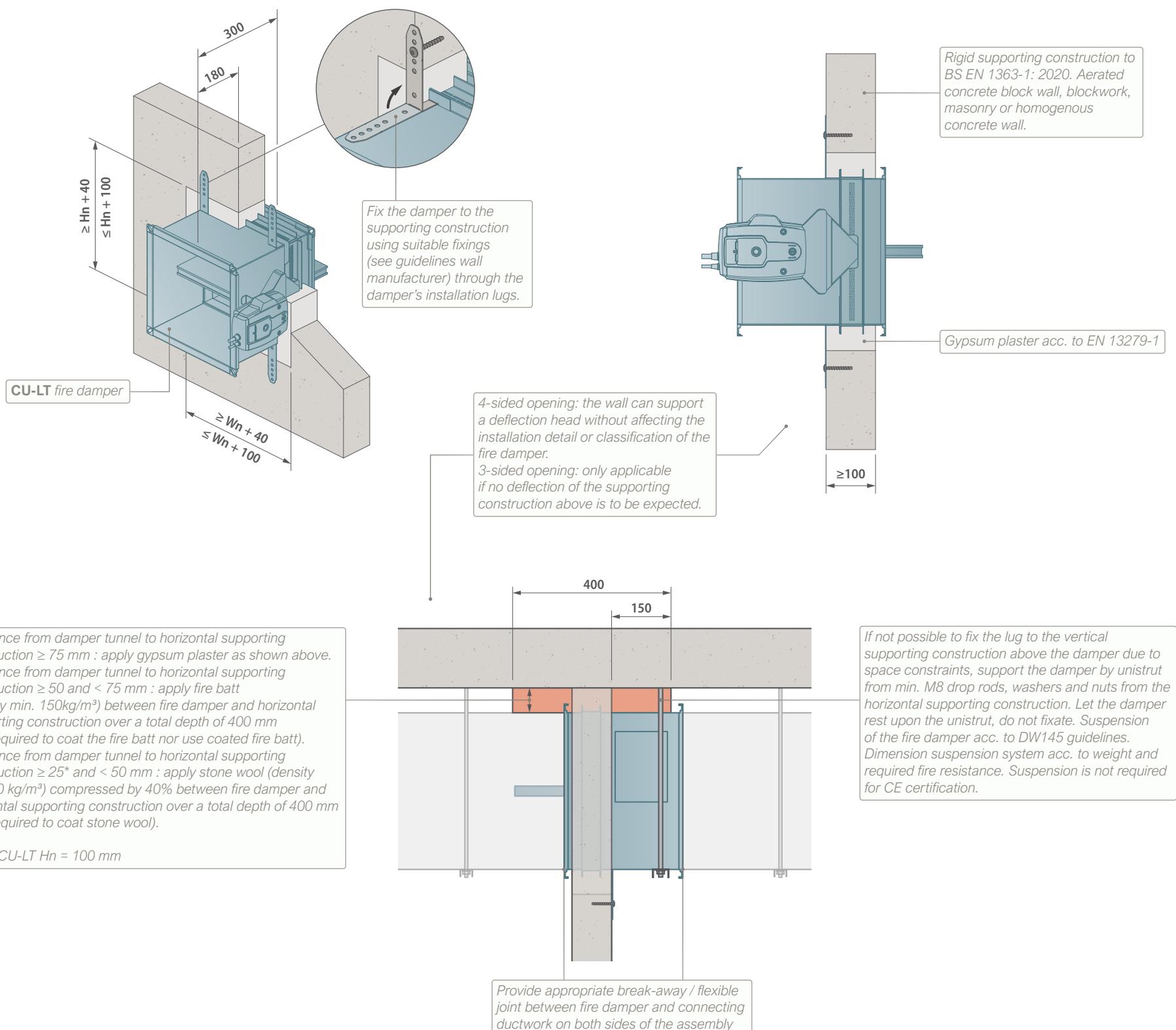
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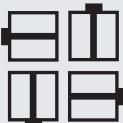


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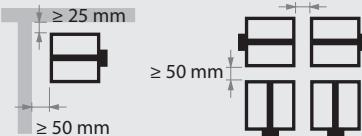


## TECHNICAL FEATURES

- Damper range (WxH): 200x100 till 800x600.
- Damper can be installed with blade in vertical or horizontal position



- Damper can be installed with mechanism on either side of the wall (independent of fire side).
- A max. of 2x2 fire dampers can be installed at tested minimal distances from an adjacent horizontal or vertical (supporting) construction or another fire damper. See detailed guidelines in the CU-LT installation manual.



- To be read in conjunction with the CU-LT Fire Damper installation manual.
- Guidelines acc. to DW144/145 (not required for CE certification):
  - Installation lugs as shown in the drawings are 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. Rf-T can provide an inspection opening on the damper body upon request (option UL).
  - 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**



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**PLAN TITLE**

## CU-LT fire damper in rigid supporting construction Installation detail with gypsum plaster

PAGE  
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## CLASSIFICATION

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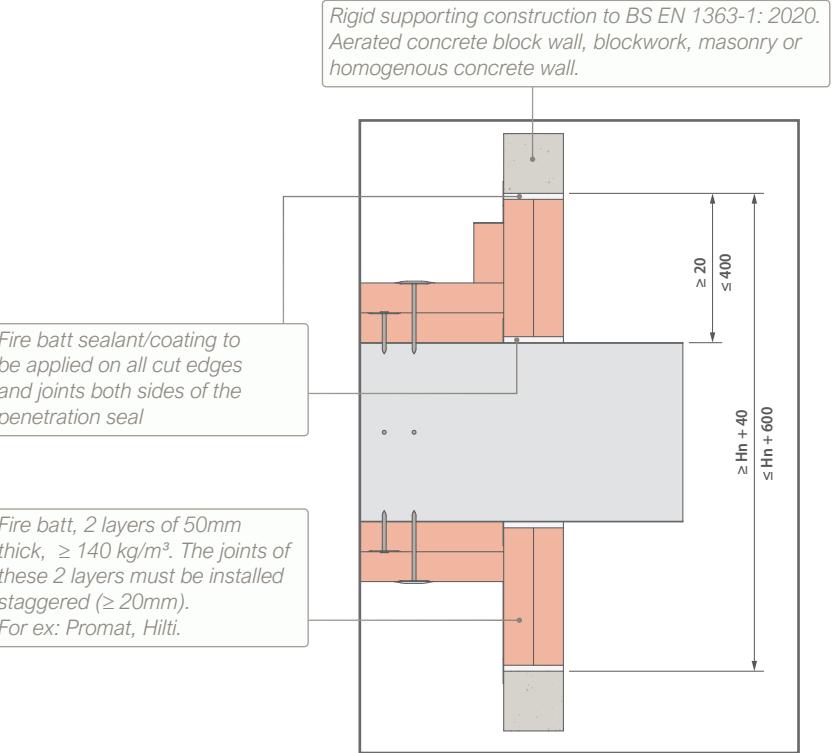
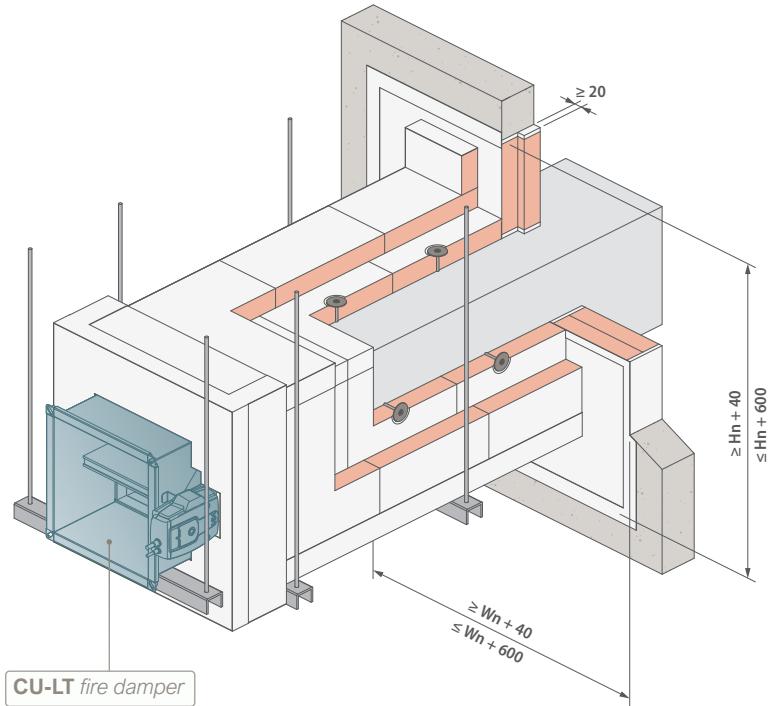
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## CU-LT FIRE DAMPER



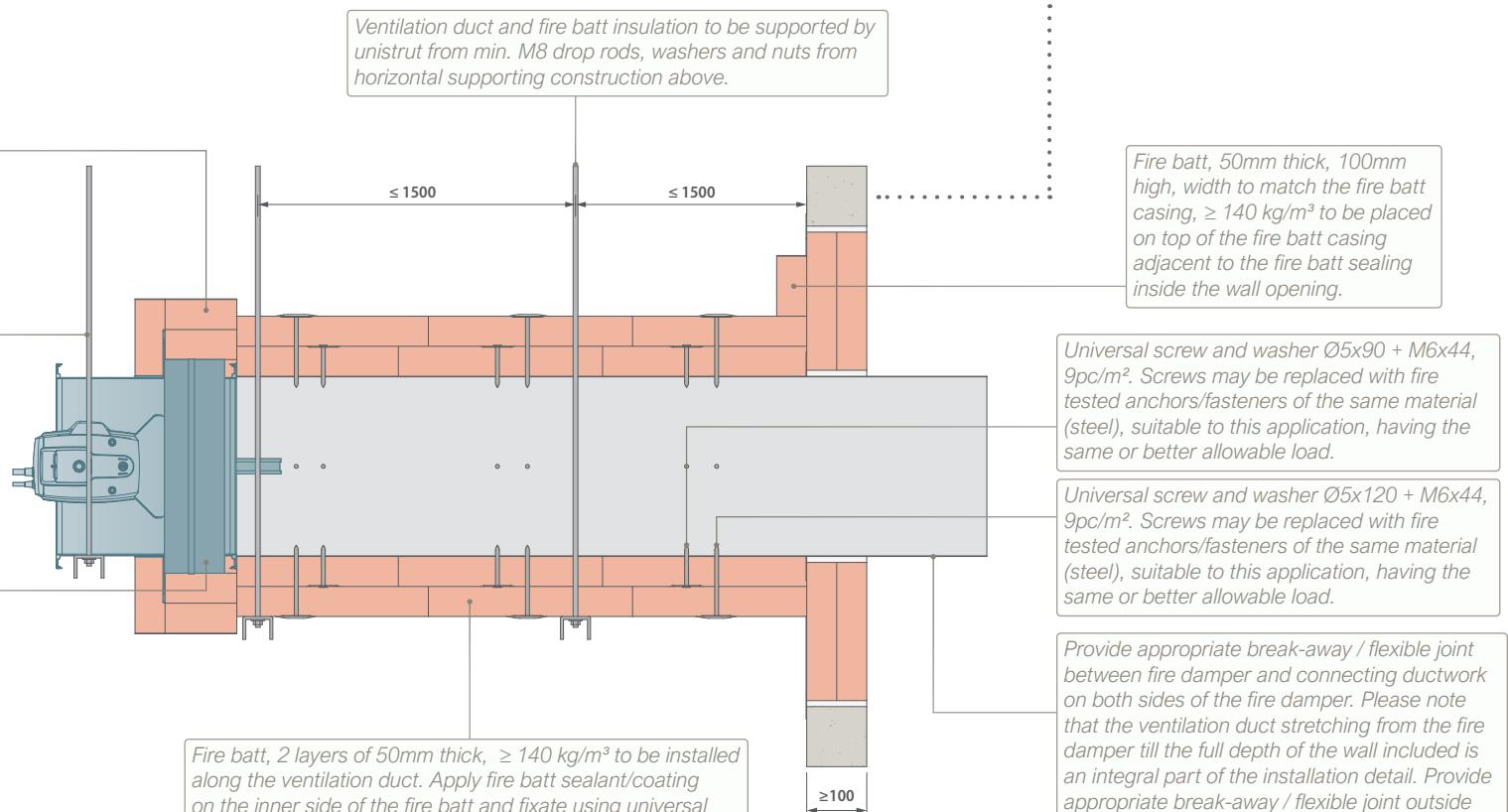
Fire batt, 2 layers of 50 mm thick,  $\geq 140 \text{ kg/m}^3$  to be applied on top of the IFW installation block. Make sure to provide free space so the mechanism is freely accessible.

Damper to be supported by unistrut from min. M8 drop rods, washers and nuts from horizontal supporting construction above. Let the fire damper rest upon the unistrut, do not fixate.

IFW installation block

Fire batt sealant/coating to be applied on all cut edges, joints, screws and washers.

Dimension suspension system acc. to weight and required fire resistance.



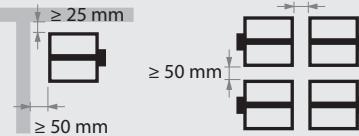
Fire batt, 2 layers of 50mm thick,  $\geq 140 \text{ kg/m}^3$  to be installed along the ventilation duct. Apply fire batt sealant/coating on the inner side of the fire batt and fixate using universal screws and washers  $\varnothing 5x90/120 + M6x44$ ,  $9\text{pc}/\text{m}^2$ . (Screws may be replaced with fire tested anchors/fasteners of the same material (steel), suitable to this application, having the same or better allowable load.)

## TECHNICAL FEATURES

- Damper range (WxH): 200x100 till 800x600.
- 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 2x2 fire dampers can be installed at tested minimal distances from an adjacent horizontal or vertical (supporting) construction or another fire damper. See detailed guidelines in the CU-LT installation manual.



- To be read in conjunction with the CU-LT Fire Damper installation manual.
- Guidelines acc. to DW144/145 (not required for CE certification):
  - 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. Rf-T can provide an inspection opening on the damper body upon request (option UL).
  - 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

CU-LT fire damper remote from a rigid supporting construction. Installation detail with IFW installation block and fire batt

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