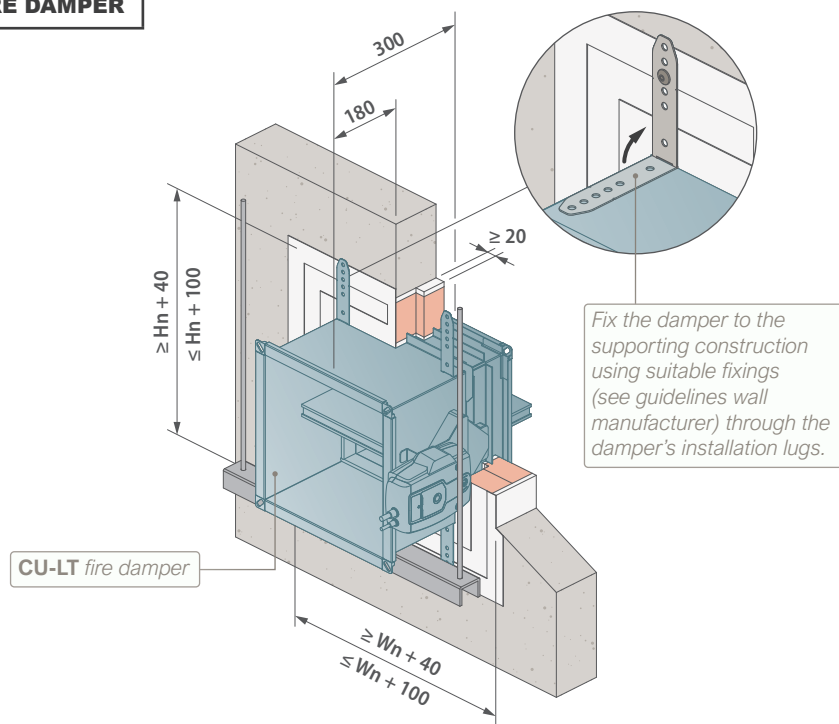
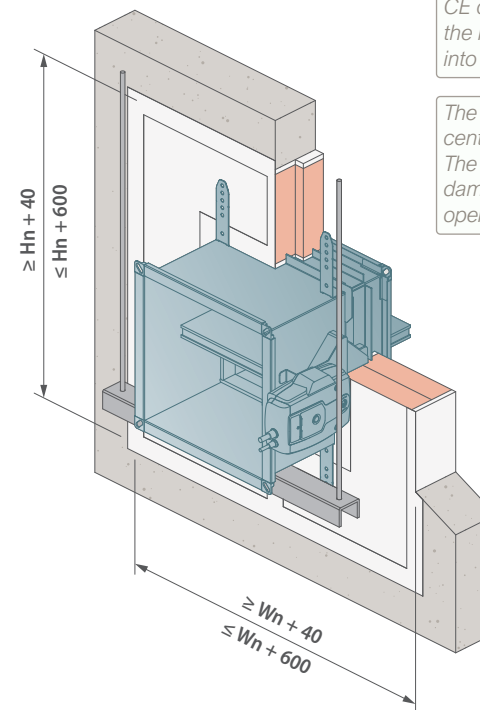


CU-LT FIRE DAMPER



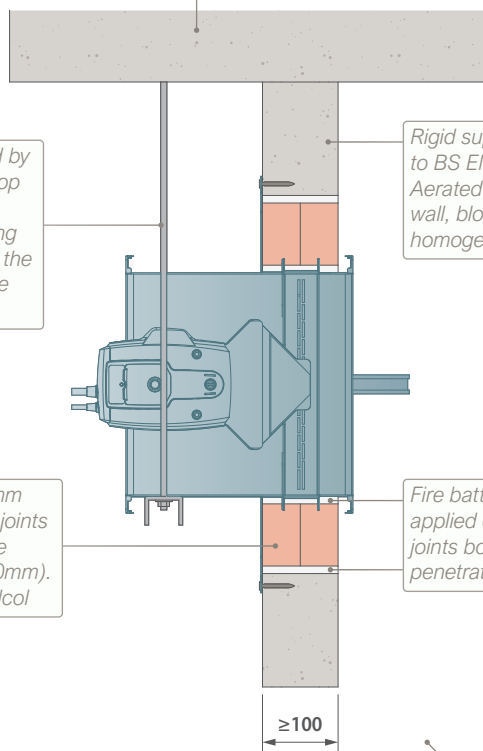
Fix the damper to the supporting construction using suitable fixings (see guidelines wall manufacturer) through the damper's installation lugs.



For larger wall openings (damper $W_n \times H_n + \text{max. } 600$), 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 400 mm.

Supporting construction (slab or other)



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.

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

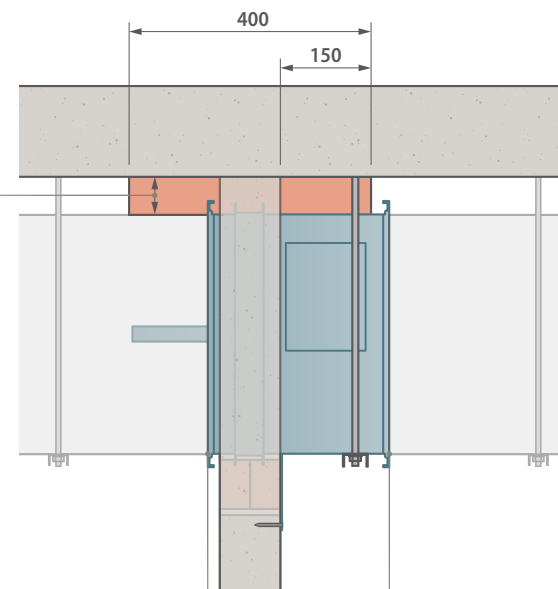
Fire batt, 2 layers of 50mm thick, $\geq 140 \text{ kg/m}^3$. The joints of these 2 layers must be installed staggered ($\geq 20\text{mm}$). For ex: Promat, Hilti, Mulcol

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

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.

- 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 ≥ 50 and $< 75 \text{ mm}$: apply fire batt (density min. 150kg/m^3) between fire damper and horizontal supporting construction over a total depth of 400 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 kg/m^3) compressed by 40% between fire damper and horizontal supporting construction over a total depth of 400 mm. Not required to coat the stone wool.

* 35 if CU-LT $H_n = 100 \text{ mm}$



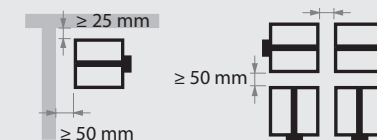
Provide appropriate break-away / flexible joint between fire damper and connecting ductwork on both sides of the assembly

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.

PAGE

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CLASSIFICATION

EI 60/90 (ve i-→o)S



REV

C

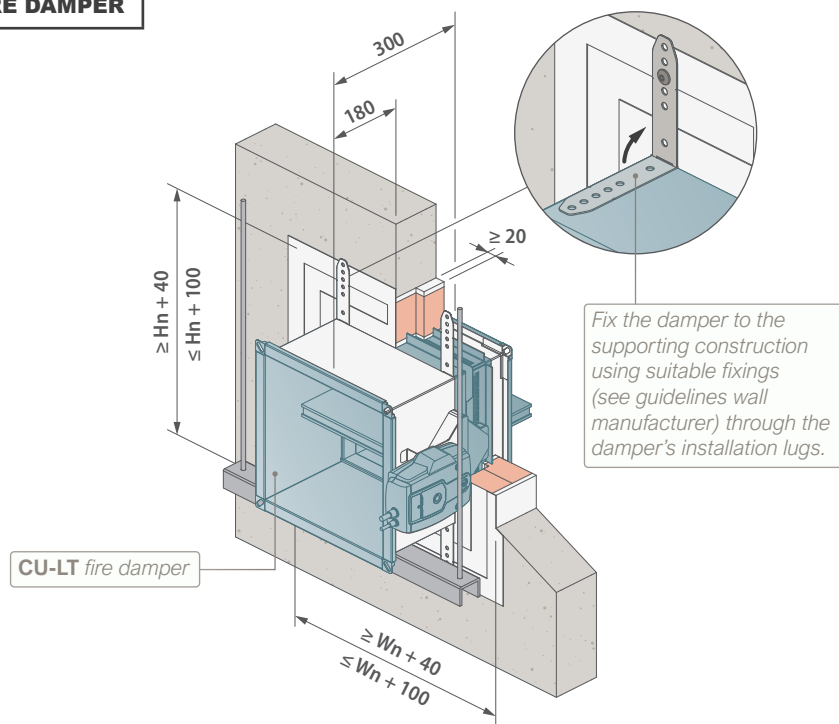
DATE

23/10/2025



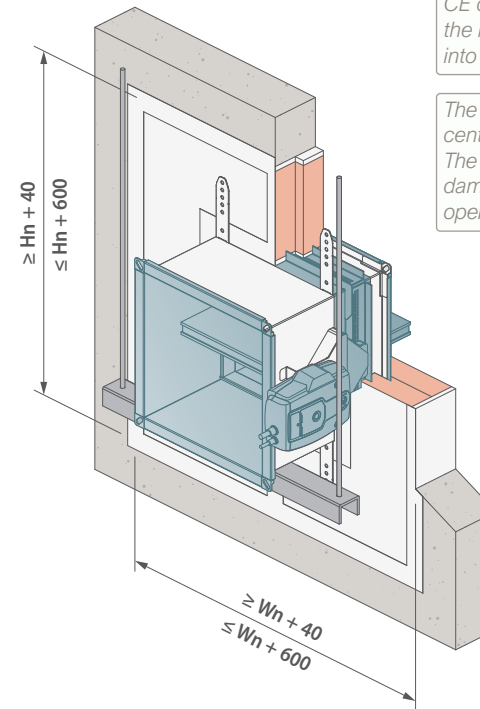
Rf-Technologies

CU-LT FIRE DAMPER



For larger wall openings (damper $W_n \times H_n + \text{max. } 600$), 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 400 mm.



Supporting construction (slab or other)

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.

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

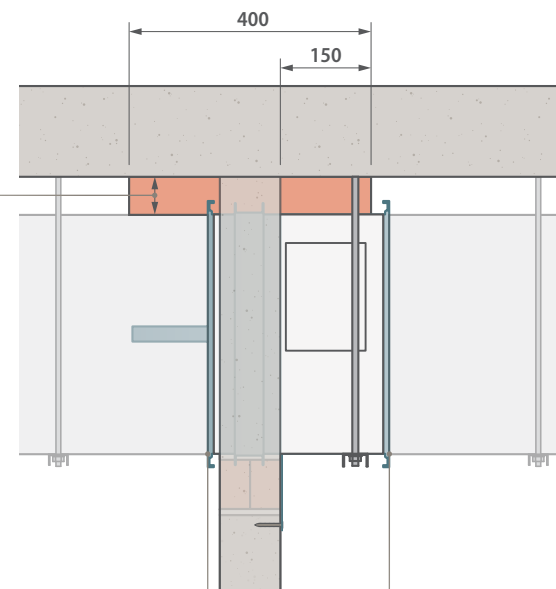
Fire batt sealant/coating to be applied on the damper tunnel.

Fire batt, 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

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

- 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 ≥ 50 and $< 75 \text{ mm}$: apply fire batt (density min. 150kg/m^3) between fire damper and horizontal supporting construction over a total depth of 400 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 kg/m^3) compressed by 40% between fire damper and horizontal supporting construction over a total depth of 400 mm. Not required to coat the stone wool.

* 35 if CU-LT $H_n = 100 \text{ mm}$



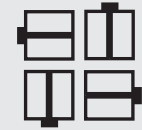
Provide appropriate break-away / flexible joint between fire damper and connecting ductwork on both sides of the assembly

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.

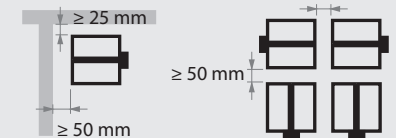
4-sided opening: the wall can support a deflection head without affecting the installation detail or classification of the fire damper. 3-sided opening: only applicable if no deflection of the supporting construction above is to be expected.

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.

PAGE

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CLASSIFICATION

EI 120 (ve i↔o)S



REV

C

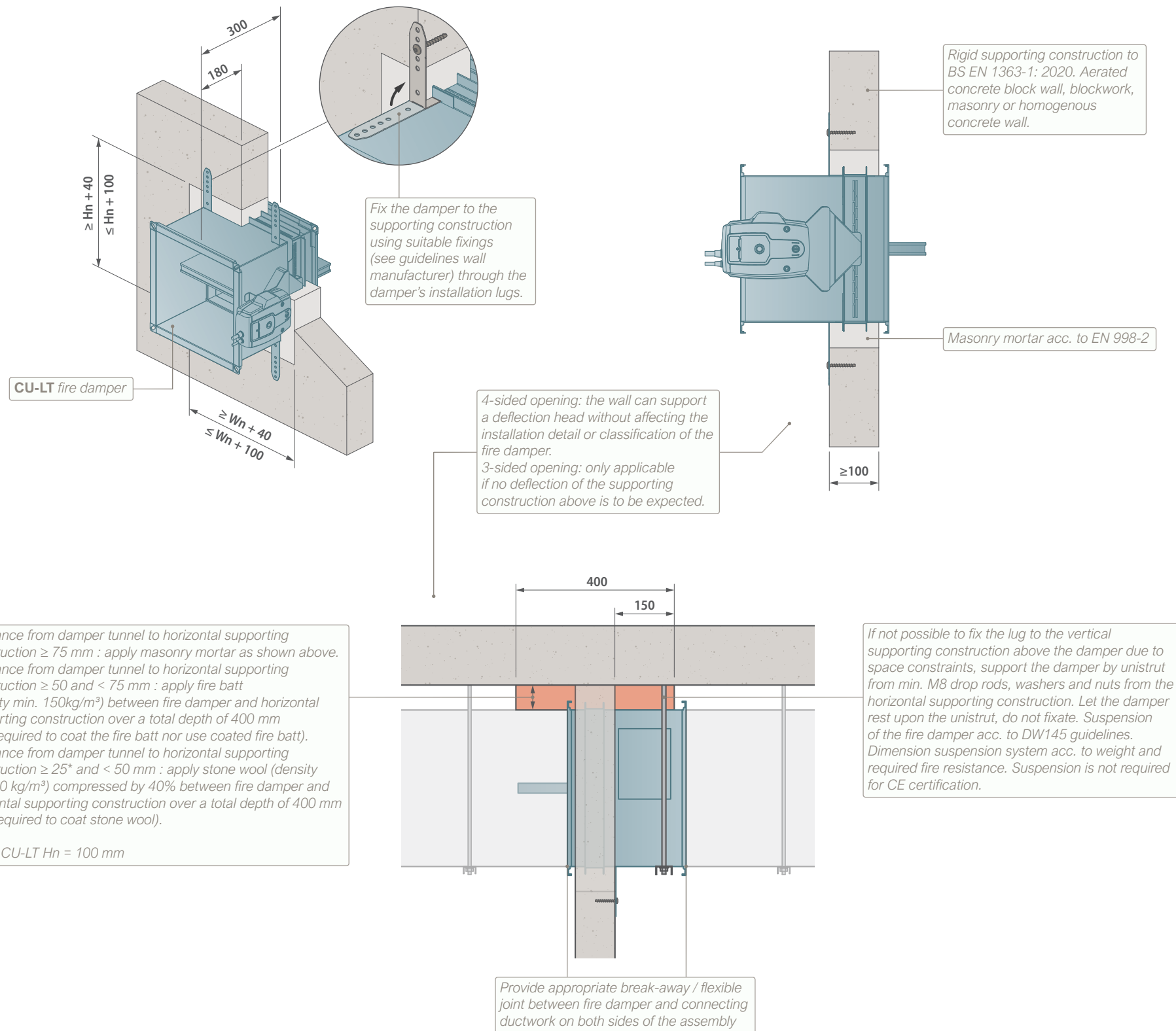
DATE

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Rf-Technologies

CU-LT FIRE DAMPER

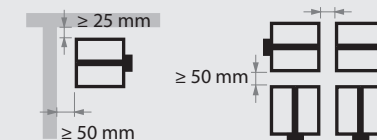


TECHNICAL FEATURES

- 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

EI 60/90 (ve i↔o)S



REV

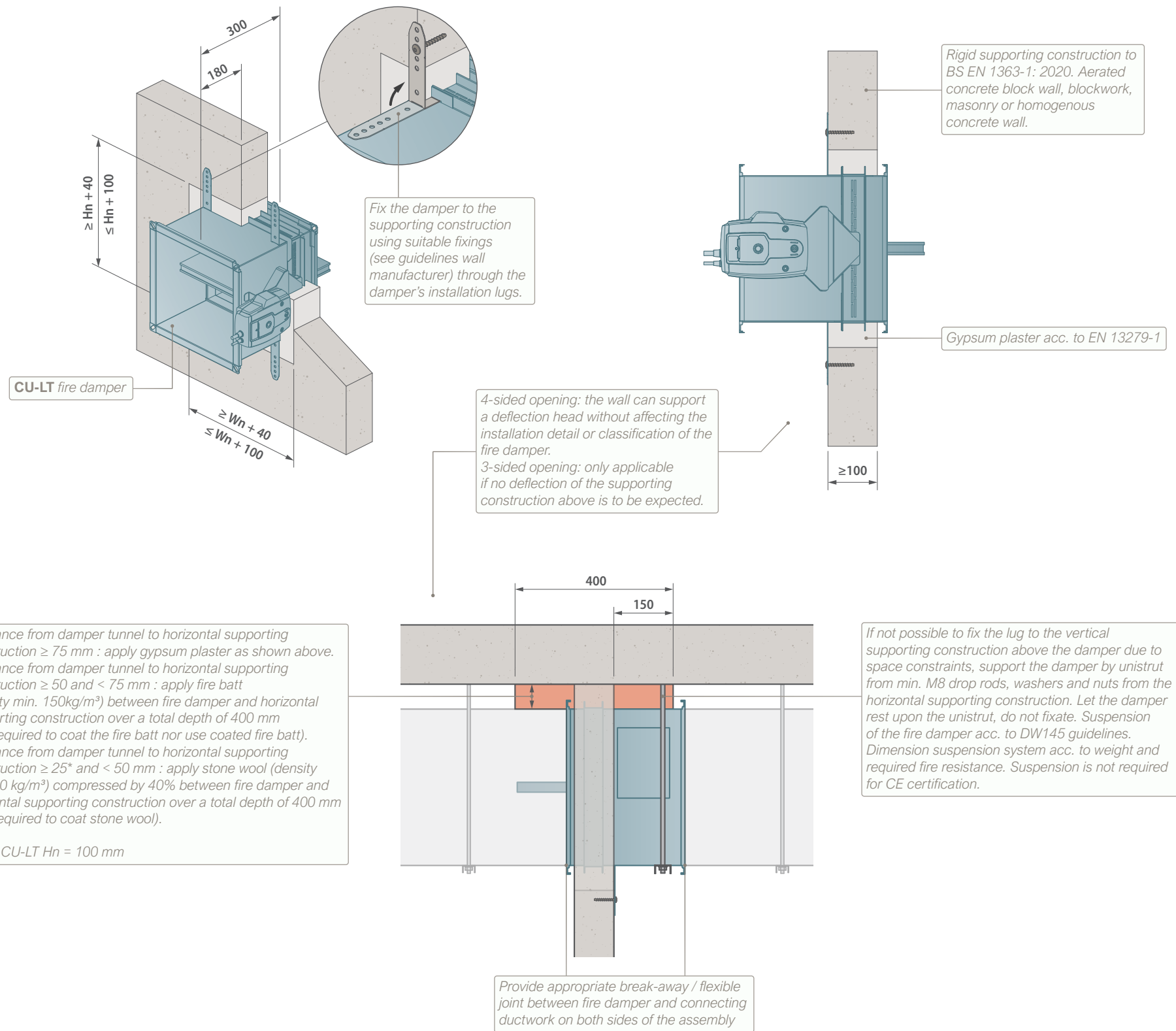
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DATE

23/10/2025

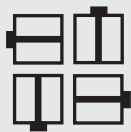


Rf-Technologies

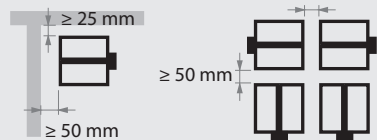


TECHNICAL FEATURES

- 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 gypsum plaster

PAGE

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CLASSIFICATION

EI 120 (ve i↔o)S



REV

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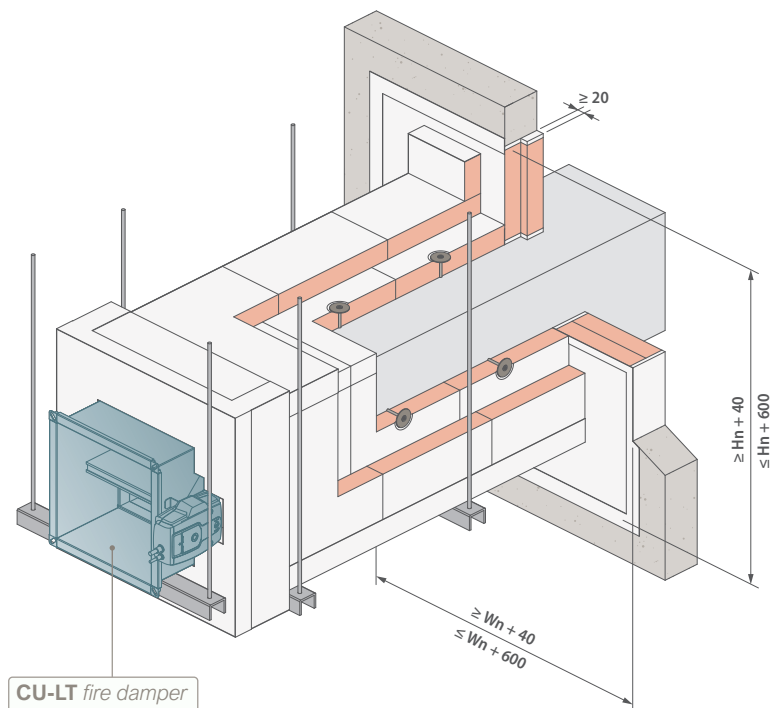
DATE

23/10/2025

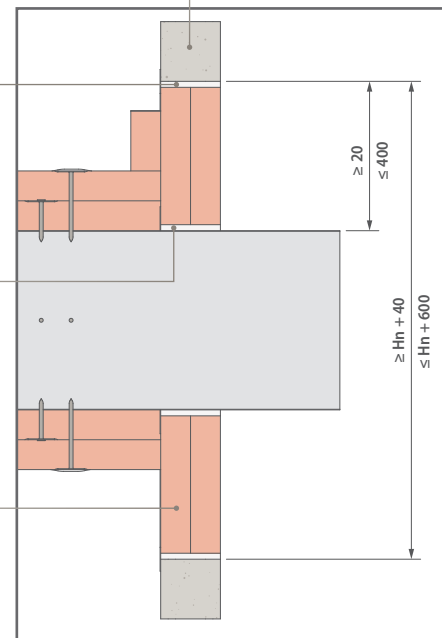


Rf-Technologies

CU-LT FIRE DAMPER



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 all cut edges and joints both sides of the penetration seal

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.

Ventilation duct and fire batt insulation to be supported by unistrut from min. M8 drop rods, washers and nuts from horizontal supporting construction above.

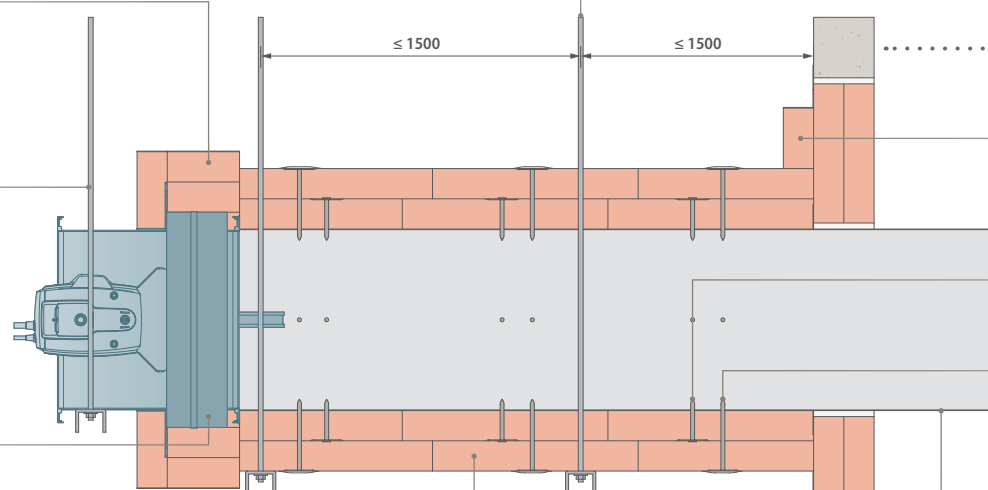
Fire batt, 2 layers of 50 mm thick, $\geq 140 \text{ kg/m}^3$ to be applied on top of the IFW installation block. Make sure to provide free space so the mechanism is freely accessible.

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, 50mm thick, 100mm high, width to match the fire batt casing, $\geq 140 \text{ kg/m}^3$ to be placed on top of the fire batt casing adjacent to the fire batt sealing inside the wall opening.

Universal screw and washer $\text{Ø}5\text{x}90 + \text{M}6\text{x}44$, 9pc/m². 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.

Universal screw and washer $\text{Ø}5\text{x}120 + \text{M}6\text{x}44$, 9pc/m². 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.

Provide appropriate break-away / flexible joint between fire damper and connecting ductwork on both sides of the fire damper. Please note that the ventilation duct stretching from the fire damper till the full depth of the wall included is an integral part of the installation detail. Provide appropriate break-away / flexible joint outside of the wall.

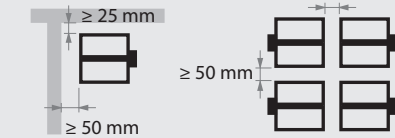
Fire batt, 2 layers of 50mm thick, $\geq 140 \text{ kg/m}^3$ to be installed along the ventilation duct. Apply fire batt sealant/coating on the inner side of the fire batt and fixate using universal screws and washers $\text{Ø}5\text{x}90/120 + \text{M}6\text{x}44$, 9pc/m². (Screws may be replaced with 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		PAGE
CU-LT fire damper remote from a rigid supporting construction. Installation detail with IFW installation block and fire batt		1/1
CLASSIFICATION		UK CA CE
EI 60/90 (ve i↔o)S		
REV	DATE	 Rf-Technologies
C	23/10/2025	