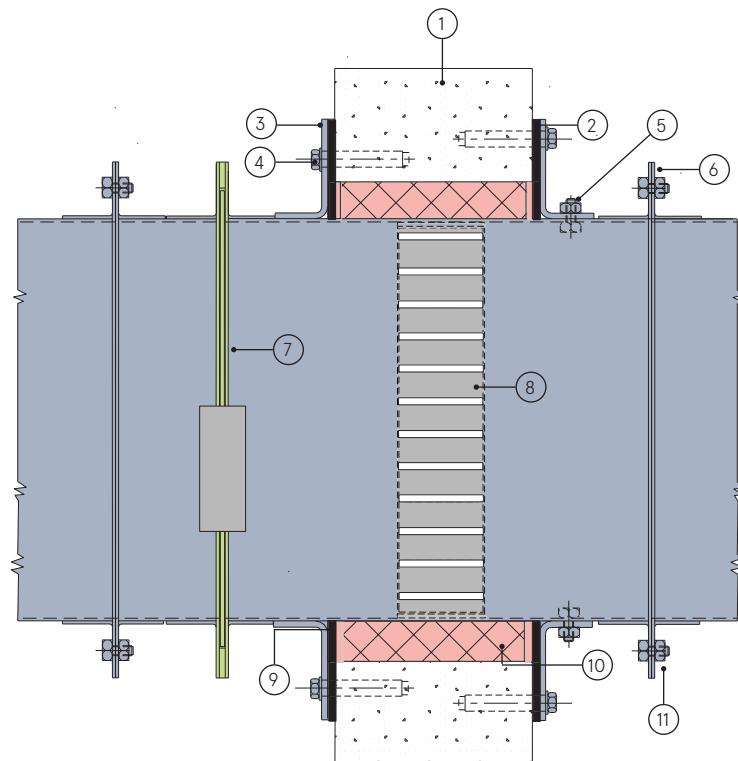


DUCT 15

LVHCTD + LVH54 IN RECTANGLUAR STEEL DUCT

DESCRIPTION

- 1 Wall
- 2 8 x 50mm wide graphite based intumescence backing pad (ITA-50X1030X1MM-SA - Supplied as 1030mm length)
- 3 Prefitted clamping plate
- 4 65mm anchor bolts
- 5 70 x 30 x 3mm steel clamping plate fixed to duct with M5 nuts & bolts
- 6 45 x 45 x 3mm standard steel flanges
- 7 Sliding shutter plate & actuator assembly
- 8 LVH54 air transfer grille for fire and cold smoke control or no air transfer grille for cold smoke control only - as per specification
- 9 Intumescence sealant seal over mineral fibre face
- 10 Mineral fibre packing



CONTENTS

- LVHCTD + LVH54 air transfer grille

TOOLS REQUIRED

- 50mm Graphite based intumescence backing pad (x8)

- 70 x 30 x 3mm steel clamping plates
- M5 nuts and bolts

- M3 nuts and bolts
- 65mm anchor bolts
- 45 x 45 x 3mm standard steel flanges

- 25 x 25 x 1.5mm steel LVH retaining frames
- Lorient intumescent sealant

LVHCTD + LVH54 installation for rectangular steel duct.

FR240

Fire Resistance in accordance with

ISO 10294-5

Approval Ref

BRE 227730

Max single cell size

600mm x 600mm.

LVH54 air transfer grilles are supplied 2mm less than the nominal size e.g. a 300mm x 300mm is actually 298mm x 298mm.

INSTALLATION INSTRUCTIONS

- **This product is primarily designed for installation in the orientation shown; any proposed change to the plane of operation should be discussed with Lorient technical staff in advance.**
- Cut an aperture in the wall at least 30mm bigger than the outside LVHCTD casing dimension in a position that will allow the smoke control shutter plate to be slid out of the housing. (If the aperture has been cut more than 60mm greater than the casing dimension, then the wall must be made good to the appropriate size before attempting to fit the LVHCTD assembly).
- For fire rated air transfer grilles cut to size 8 no. pieces of Lorient rigid graphite based intumescence sheet material and fix 4 no. to the flange of the pre-fitted clamping plate using self adhesive tape in order to provide a continuous seal between the clamping plate flange and the wall. Cold smoke control 'only' LVHCTD do not need these seals.
- Position the assembly into the aperture taking care that the smoke control shutter plate can slide clear of the housing without interference from the surroundings, tightly pack around with mineral wool and seal both exposed faces of the mineral wool with intumescence sealant.
- Press the pre-fitted clamping plate and where fitted the intumescence sheet seal hard against the wall. Care must be taken to avoid distorting the assembly by crushing or twisting. Fix the pre-fitted clamping plate flange to the wall ensuring the intumescence sheet seal if fitted is deployed satisfactorily.
- For fire rated LVHCTD fix the 4 remaining graphite based backing pads with self adhesive tape to the flange of the second clamping plate and position over the casing up to wall and fix in place making sure that the duct is positioned square to the wall in both planes. Seal over all exposed mineral wool with intumescence sealant.
- Ensure that the inside of the housing and shutter plates are entirely clear of dust and debris.
- Fit standard jointing flanges to each end of the housing and complete the installation by connecting to the duct, sealing joints with appropriate gasket materials.
- Check that the shutter plate assembly can slide freely within the housing.
- The electrical connections for the actuator of the cold smoke control system must be made in accordance with the instructions contained in Talkback Manual. Test the function of the system in accordance with the installing and commissioning instructions supplied with the LVHCTD.