DUCT 15

LVHCTD + LVH44/LVH54 IN RECTANGLUAR STEEL DUCT

DESCRIPTION

Wall

1

- 2 4mm x 65mm wide Lorient graphite based backing pads
- 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 LVH44 or LVH54 air transfer grille for fire and cold smoke control or no air transfer grille for cold smoke control only - as per specification
- 9 Intumescent sealant seal over mineral fibre face
- 10 Mineral fibre packing
- 11 Aluminium bolts to fasten duct joint flanges (approx. melting point 540 deg.C).

CONTENTS

 LVHCTD + LVH44/LVH54 air transfer grille

TOOLS REQUIRED

- Graphite based intumescent backing pad
- LVHCTD + LVH44*/ LVH54** installation for rectangular steel duct.

FR120*/FR240*

Fire Resistance in

accordance with BS 476-22:1987* ISO 10294-5**

Approval Ref

WFRC C121316* BRE 227730**

Max single cell size

600mm x 600mm.

LVH44/LVH54 air transfer grilles are supplied 2mm less than the nominal size e.g. a 300mm x 300mm is actually 298mm x 298mm.

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

INSTALLATION INSTRUCTIONS

LVHCTD assembly).

with intumescent sealant.

Lorient technical staff in advance.

> This product is primarily designed for installation

the plane of operation should be discussed with

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

has been cut more than 60mm greater than the

For fire rated air transfer grilles cut to size 8 no.

sheet material and fix 4 no. to the flange of the

order to provide a continuous seal between the

clamping plate flange and the wall. Cold smoke

control 'only' LVHCTD do not need these seals.

of the housing without interference from the

Press the pre-fitted clamping plate and where fitted the intumescent sheet seal hard against the wall. Care must be taken to avoid distorting the

> Position the assembly into the aperture taking care

that the smoke control shutter plate can slide clear

surroundings, tightly pack around with mineral wool

and seal both exposed faces of the mineral wool

plate to be slid out of the housing. (If the aperture

casing dimension, then the wall must be made good

to the appropriate size before attempting to fit the

pieces of Lorient rigid graphite based intumescent

pre-fitted clamping plate using self adhesive tape in

in the orientation shown; any proposed change to

- 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

assembly by crushing or twisting. Fix the pre-fitted clamping plate flange to the wall ensuring the intumescent sheet seal if fitted is deployed satisfactorily.

- For fire rated LVHCTD fix the 4 remaining sheet seals 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 intumescent 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.



65