# DUCT 9

# RIGID WALL WITH ANGLE FIXINGS (DUCT TO GRILLE)

#### DESCRIPTION

- 1 Rigid wall construction
- Straight through duct with breakaway connections
- 3 LVHC44 air transfer grille
- 4 Cover grille
- 5 Lorient intumescent sealant around spiral casing to a maximum clearance of 25mm
- 6 Fixing angle: 40 x 40 x 1mm thick mimimum galvanised steel angles fixed to air transfer grille unit with self tapping screws and to wall with masonry anchors

**Fixing option 1:** For 200mm diameter and less - 40mm wide angles, at three points on the edge of the LVHC44 air transfer grille

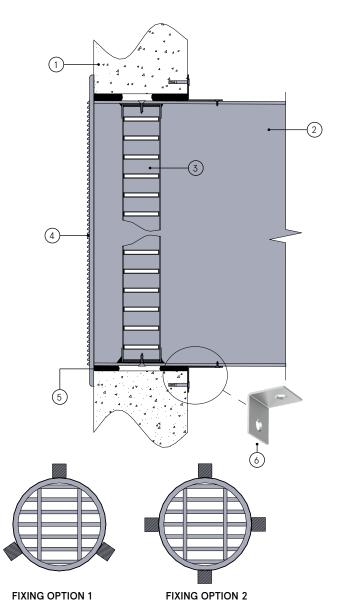
**Fixing option 2:** For greater than 200mm diameter - 40mm wide angles, at four points on the edge of the LVHC44 air transfer grille

#### **CONTENTS**

LVHC44 air transfer grille

## **TOOLS REQUIRED**

- Fixing angle (40 x 40 x 1mm)
- Self tapping screws (3.2mm x 16mm)
- Masonry anchors
- Lorient intumescent sealant



# Rigid wall with angle fixings (duct to grille)

# FR120

# Fire Resistance in accordance with

BS 476-22:1987

### **Approval Ref**

WFRC C121316 (OW5) WFRC 397901

# Max single cell size

600mm diameter

LVHC44 air transfer grilles are supplied 2mm less than the nominal size e.g. a 150mm is actually 148mm.

## **INSTALLATION INSTRUCTIONS**

- Cut aperture in wall a least 30mm larger than the outside diameter of the duct.
- Pass duct through aperture into correct linear location and mark positions of both wall faces on duct
- Remove duct from aperture and position LVHC44 in duct midway between the two wall marks.
- Drill through duct wall into LVHC44 outer frame and fit at least 3 number self tapping screws to retain air transfer grille.
- ▶ Seal joints between edges of LVHC44 and duct wall with intumescent sealant.
- ▶ Fix the three or four mounting angles onto the LVHC44 air transfer grille unit using self tapping screws to **one side only.**
- Insert air transfer grille into masonry wall opening (note: LVHC44 does not have to be centrally positioned in the opening).
- Fix the three or four mounting angles depending on the diameter, to the masonry wall with masonry anchors.

- ► Cut protruding galvanised steel casing to be flush with face of wall.
- Apply a bead of Lorient intumescent sealant around the perimeter of metal sleeve as shown (note: maximum annular clearance of 25mm applies).
- Connect cover grille/ductwork directly to metal sleeve using approved breakaway connections to ensure compliance.

