

## DUCT MOUNTED SYSTEMS

# DUCT 7

### FIRE RATED FLEXIBLE WALL WITH ANGLE FIXINGS TO WALL

#### DESCRIPTION

- 1 Fire rated flexible wall
- 2 Straight through duct with breakaway connections
- 3 LVHC44 intumescent air transfer grille assembly
- 4 Lorient intumescent sealant around spiral casing to a maximum clearance of 25mm
- 5 Fixing angle: 40 x 40 x 1mm thick minimum galvanised steel angles fixed to LVHC44 unit with TEK screw and to wall with drywall screws

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

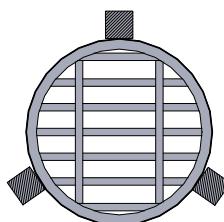
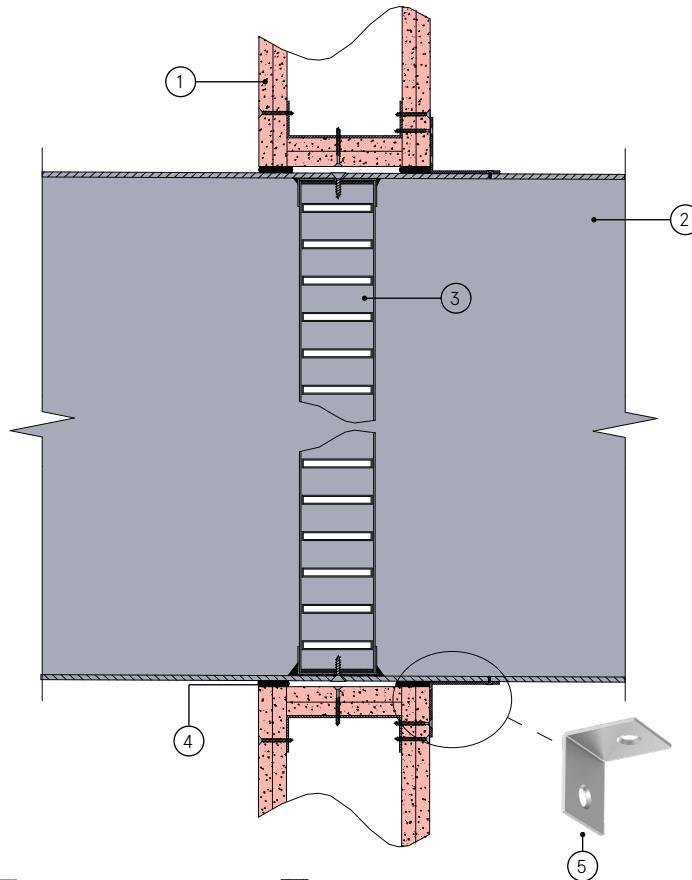
**Fixing option 2:** For greater than 200mm diameter 40mm wide angles, at four points on the edge of the LVHC44 air transfer grilles

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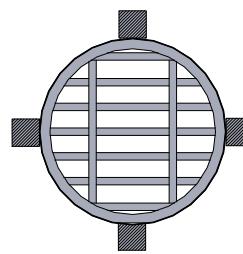
- LVHC44 air transfer grille

#### TOOLS REQUIRED

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



FIXING OPTION 1



FIXING OPTION 2

### Fire rated flexible wall with angle fixings to wall

### FR120

#### Fire Resistance in accordance with

BS 476-22:1987

#### Approval Ref

WFRC C121316 (OW3)

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 three or four mounting angles onto the LVHC44 unit using self tapping screws **to one side only**.
- Insert LVHC44 into fire rated flexible wall opening (note: air transfer grille does not have to be centrally positioned in the opening).
- Fix the three or four mounting angles depending on the diameter, to the fire rated plasterboard wall with drywall screws.