

# FLOOR 2

## MASONRY FLOOR WITH ANGLE CLAMPS

### DESCRIPTION

- 1 Independent duct fixing complete with breakaway joints
- 2 LVHC44 air transfer grille
- 3 Lorient intumescent sealant around spiral casing to a maximum clearance of 10mm
- 4 Supporting angles (25 x 25 x 1mm)
- 5 **Fixing angle:** 40 x 40 x 1mm thick minimum galvanised steel angles fixed to LVHC44 unit with self tapping screws

**Fixing option 1 - for less than 200mm diameter:** supporting/mounting angles, at three points on the edge of the LVHC44 air transfer grille

**Fixing option 2 - for greater than 200mm diameter:** supporting/mounting angles, at four points on the edge of the LVHC44 air transfer grille

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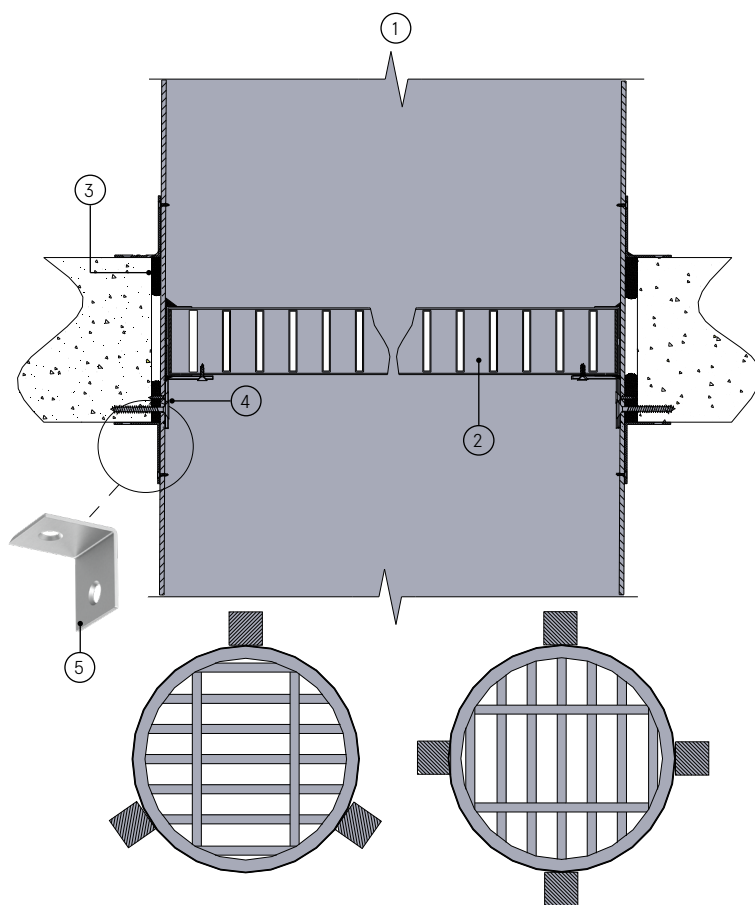
- LVHC44 air transfer grille

### TOOLS REQUIRED

- Self tapping screw (3.2mm x 16mm)
- Supporting angles 25 x 25 x 1mm
- Mounting angles 40 x 40 x 1mm
- Lorient intumescent sealant



Note: If no reticulating ductwork is above the slab a protective and load-bearing grate is necessary.



FIXING OPTION 1

FIXING OPTION 2

### Masonry floor with angle clamps

#### FR120

#### Fire Resistance in accordance with

BS 476-22:1987

#### Approval Ref

WFRC C121316 (OF2)

#### Max single cell size

600mm diameter

LVHC44 air transfer grilles are supplied 2mm less than the nominal size e.g. a 300mm is actually 298mm.

### INSTALLATION INSTRUCTIONS

- ▶ Fix the three or four supporting angles into the duct section using self tapping screws.
- ▶ Fix the LVHC44 into duct and seal around the perimeter with intumescent sealant.
- ▶ Fix to supporting angles with 3.2 x 16mm self tapping screws.
- ▶ Fix the three or four mounting angles onto the outside of the duct section using self tapping screws.
- ▶ Insert air transfer grille into masonry floor opening (note: LVHC44 does not have to be centrally positioned in the opening).
- ▶ Clamp the LVHC44 into the floor by fixing mounting angles to duct section on other side of floor using self tapping screws.
- ▶ Apply a bead of Lorient intumescent sealant around the perimeter of metal sleeve as shown (note: maximum annular clearance of 10mm applies).
- ▶ Connect ductwork directly to metal sleeve using

approved breakaway connections to ensure compliance.