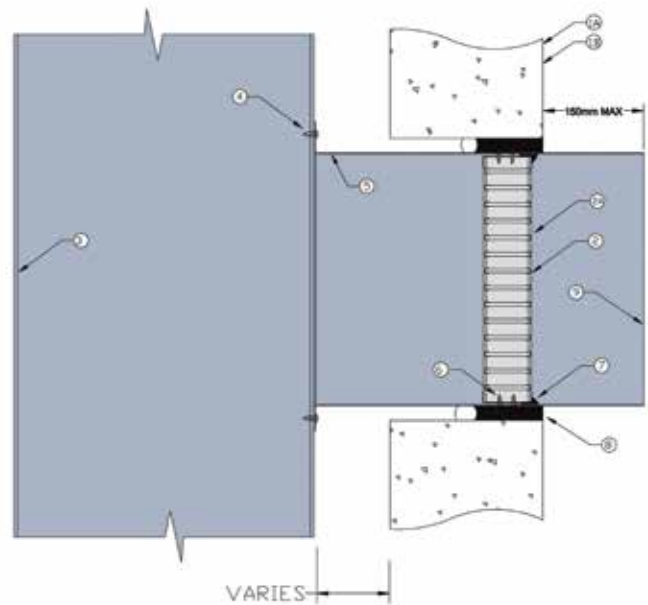


# SHAFT WALL ANGLE FREE 1

FIRE RATED MASONRY / CONCRETE  
SHAFT WALL SYSTEM

DESCRIPTION	
<b>1A</b>	Masonry or concrete wall minimum 90mm thick.
<b>1B</b>	
<b>2</b>	Lorient LVH44 intumescent fire damper.
<b>2A</b>	Lorient LVH44C intumescent fire damper.
<b>3</b>	Protected sheet metal riser.
<b>4</b>	Horizontal branch connected to riser with steel fixings or pop rivets.
<b>5</b>	Z275 galvanised steel branch min thickness 0.6mm.
<b>6</b>	Fire damper fixed to casing with 2 x steel screws (100mm centres).
<b>7</b>	Fire damper perimeter sealed with Lorient intumescent sealant.
<b>8</b>	Gap between casing and aperture filled with Lorient intumescent sealant. Backing rod used as required to control sealant fill depth to at least 50mm. Maximum annular gap between casing and wall is 25mm.
<b>9</b>	Casing terminates with breakaway joint as per AS1682.2.



**Angle free LVH44 or LHV44C in steel casing connected to sheet metal riser penetrating fire rated Masonry or Concrete shaft wall**

**FRL -/120/30**

**Fire Resistance in accordance with**

AS1530.4 2014

**Approval Ref**

EXOVA EWFA 33233400

**Max single cell size**

600mm x 600mm or  
450mm diameter

## INSTALLATION INSTRUCTIONS

- ▶ Measure and mark the position of the damper in the horizontal branch, ensuring that it will be aligned within the shaft wall once the branch is attached to the riser and the shaft wall is constructed.
- ▶ Fix damper into branch with steel screws (point 6) and seal perimeter with Lorient intumescent sealant (point 7).
- ▶ Mechanically fix the branch to the vertical riser with steel screws or pop rivets (point 4).
- ▶ Once shaft wall has been constructed, firestop the gap between the casing and the wall with Lorient intumescent sealant – note fill depth details in point 8.
- ▶ Ductwork shall be connected with breakaway joints, as per point 9.
- ▶ Ensure product identification labels are conspicuously positioned for easy identification.
- ▶ Ensure convenient access is provided to allow for AS1851 inspection and maintenance routines.
- ▶ **Note: Branch / casing and fixings supplied by others.**