



MASONRY & CONCRETE FIRE WALLS

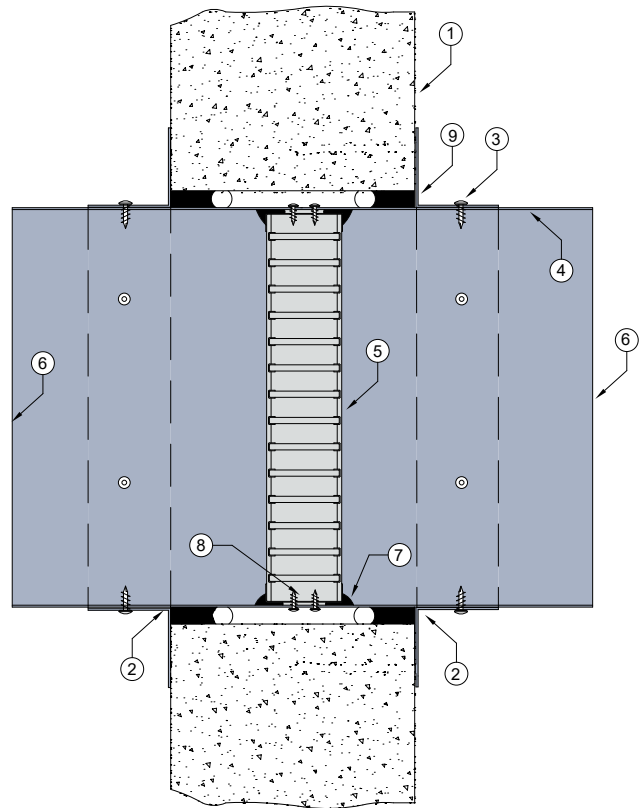
WALL 1 - Angles Both Sides

Minimum 90mm thick



DESCRIPTION

- 1 Masonry or concrete wall (minimum 90mm or thicker)
- 2 0.6mm (min) Z275 galvanised steel angles to all four sides. Angle dimensions shall be continuous and at least 2 x the dimension of the gap between the damper casing and the penetrated element.
- 3 Each angle fixed to damper casing with steel fasteners at 150mm centres or at least 2 per side.
- 4 Z275 galvanised steel casing minimum thickness 0.6mm.
- 5 Lorient LVH44 intumescent fire damper screw fixed into casing.
- 6 Casing terminates with breakaway joints, as per AS1682.2.
- 7 Fire damper perimeter sealed with Lorient intumescent sealant.
- 8 LVH44 fixed to casing with 2 x steel screws (100mm centres).
- 9 Gap between casing and aperture filled with Lorient intumescent sealant. Backing rod used as required to control sealant fill depth to at least 25mm. Maximum annular gap between casing and wall 25mm.



FIRE DAMPER

LVH44 in steel casing penetrating fire rated Masonry / Concrete wall

FRL -/120/30 (up to 1200mm x 600mm)

Fire Resistance in accordance with AS1530.4 2014

Fire Resistance in accordance with AS1530.4 2014

Approval Ref EXOVA EWFA 33233400

Approval Ref EXOVA EWFA 33233400

Max single cell size 600mm x 600mm

Max modular size 600mm x 1200mm / 1200mm x 600mm

INSTALLATION INSTRUCTIONS

- ▶ Prepare the wall opening to accept the fire damper and install in wall, as shown in system detail.
- ▶ Centralise the casing and firestop the gap between the casing and wall with Lorient intumescent sealant, note fill details in point 9.
- ▶ Perimeter angles are mechanically fixed to casing with steel self drilling screws or pop rivets, as detailed in points 2 & 3.
- ▶ Ductwork shall be connected with breakaway joints, as per point 6.
- ▶ Ensure product identification labels are conspicuously positioned for easy identification.
- ▶ Ensure convenient access is provided to allow for AS1851 inspection and maintenance routines.
- ▶ **Note: Damper casings and mounting flanges supplied by Trafalgar Fire.**

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MASONRY & CONCRETE FIRE WALLS

WALL 2 - One Sided install

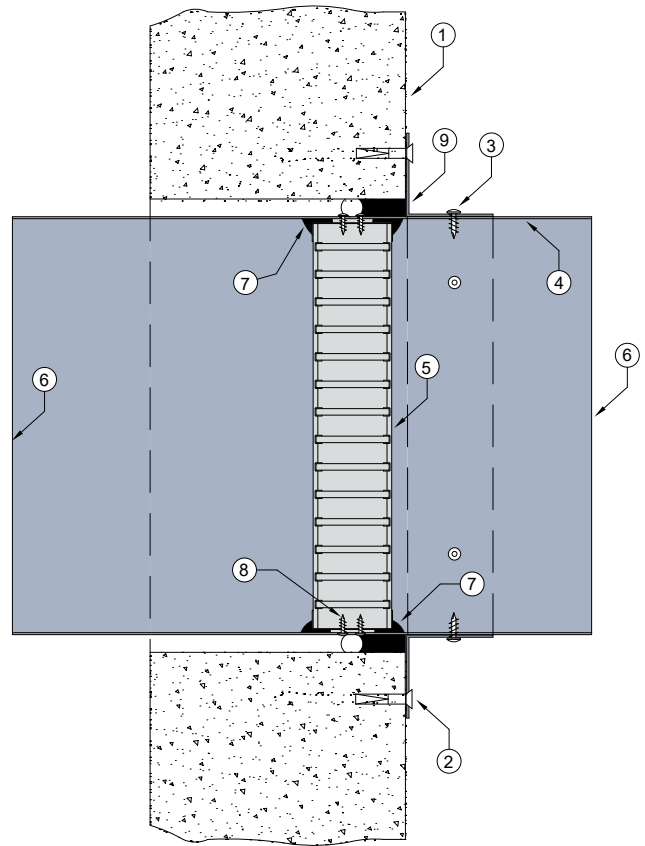
Minimum 90mm thick



MASONRY + CONCRETE WALLS

DESCRIPTION

- 1 Masonry or concrete wall (minimum 90mm or thicker)
- 2 Angles fixed to wall with steel masonry anchors at 150mm centres or at least 2 per side.
- 3 0.6mm (min) Z275 galvanised steel angles to all four sides. Angle dimensions shall be continuous and at least 2 x the dimension of the gap between the damper casing and the penetrated element. Each angle fixed to damper casing with steel fasteners at 150mm centres or at least 2 per side.
- 4 Z275 galvanised steel casing minimum thickness 0.6mm.
- 5 Lorient LVH44 intumescent fire damper screw fixed into casing.
- 6 Casing terminates with breakaway joints, as per AS1682.2.
- 7 Fire damper perimeter sealed with Lorient intumescent sealant.
- 8 LVH44 fixed to casing with 2 steel screws (100mm centres).
- 9 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 25mm.



LVH44 in steel casing penetrating fire rated Masonry / Concrete wall

FRL -/120/30 (up to 1200mm x 600mm)

Fire Resistance in accordance with AS1530.4 2014

Fire Resistance in accordance with AS1530.4 2014

Approval Ref EXOVA EWFA 33233400

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Max single cell size 600mm x 600mm

Max modular size 600mm x 1200mm / 1200mm x 600mm

INSTALLATION INSTRUCTIONS

- ▶ Prepare the wall opening to accept the fire damper and install in wall, as shown in system detail.
- ▶ Centralise the casing and firestop the gap between the casing and wall with Lorient intumescent sealant, note fill details in point 9.
- ▶ Perimeter angles are mechanically fixed to casing with steel self drilling screws or pop rivets and to wall with steel masonry anchors, as detailed in points 2 & 3.
- ▶ Ductwork shall be connected with breakaway joints, as per point 6.
- ▶ Ensure product identification labels are conspicuously positioned for easy identification.
- ▶ Ensure convenient access is provided to allow for AS1851 inspection and maintenance routines.
- ▶ **Note: Damper casings and mounting flanges supplied by Trafalgar Fire.**

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MASONRY & CONCRETE FIRE WALLS

WALL 3 DUCT-TO-GRILLE

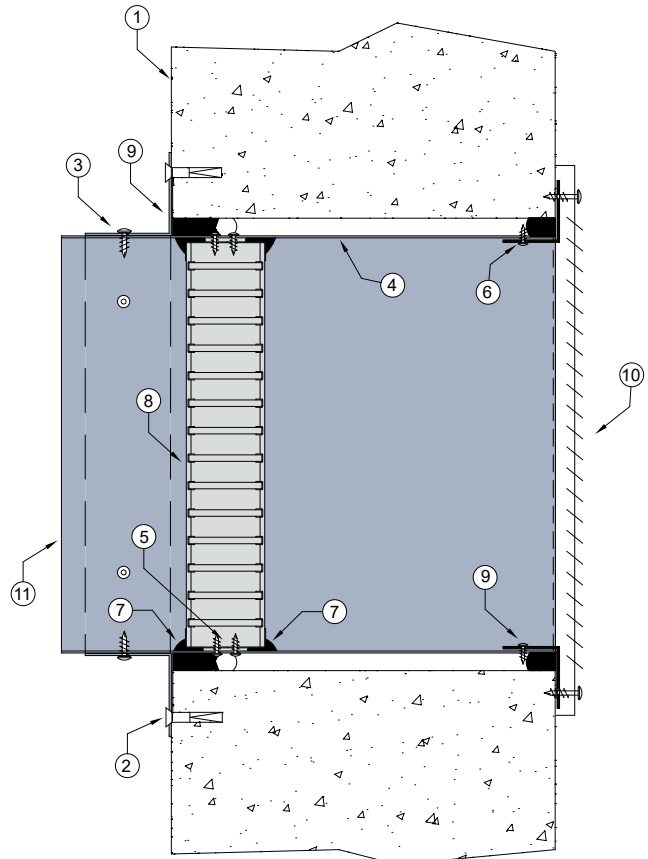
Minimum 90mm thick



MASONRY + CONCRETE WALLS

DESCRIPTION

- 1 Masonry or concrete wall: Minimum 90mm or thicker.
- 2 Angles fixed to wall with steel masonry anchors at 150mm centres or at least 2 per side.
- 3 0.6mm (min) Z275 galvanised steel angles to all four sides. Angle dimensions shall be continuous and at least 2 x the dimension of the gap between the damper casing and the penetrated element.
Each angle fixed to damper casing with steel fasteners at 150mm centres or at least 2 per side.
- 4 Z275 galvanised steel casing minimum thickness 0.6mm.
- 5 Lorient LVH44 intumescent fire damper screw fixed into casing.
- 6 Casing either turned out or fitted with angles to all four sides fixed in place with steel self drilling screws.
- 7 Fire damper perimeter sealed with Lorient intumescent sealant.
- 8 LVH44 fixed to casing with 2 x steel screws (100mm centres).
- 9 Gap between casing and aperture filled with Lorient intumescent sealant. Backing rod used as required to control sealant fill depth to at least 25mm. Maximum annular gap between casing and wall 25mm.
- 10 Cover grille (by others) screw fixed in place to cover aperture.
- 11 Breakaway joint as per AS1682.2 as required.



LVH44 in steel casing penetrating fire rated Masonry / Concrete wall

FRL -/120/30 (up to 1200mm x 600mm)

| Fire Resistance in accordance with AS1530.4 2014 | Max modular size |
|--|---------------------------------|
| AS1530.4 2014 | 600mm x 1200mm / 1200mm x 600mm |

Approval Ref

EXOVA EWFA
33233400

Max single cell size

600mm x 600mm

INSTALLATION INSTRUCTIONS

- ▶ Prepare the wall opening to accept the fire damper and install in wall, as shown in system detail.
- ▶ Centralise the casing and firestop the gap between the casing and wall with Lorient intumescent sealant, note fill details in point 9.
- ▶ Perimeter angles are mechanically fixed to casing with steel self drilling screws or pop rivets and to wall with steel masonry anchors, as detailed in points 2 & 3.
- ▶ Ductwork shall be connected with breakaway joints, as per point 6.
- ▶ Ensure product identification labels are conspicuously positioned for easy identification.
- ▶ Ensure convenient access is provided to allow for AS1851 inspection and maintenance routines.
- ▶ **Note: Damper casings and mounting flanges supplied by Trafalgar Fire.**

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MASONRY & CONCRETE FIRE WALLS

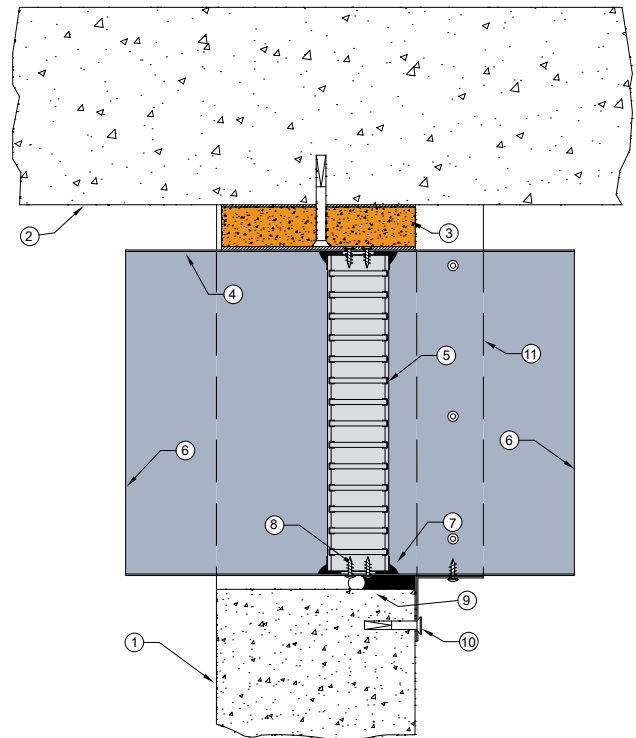
WALL 4 - Slab Mounted Damper



Minimum 90mm thick

DESCRIPTION

- 1 Masonry or concrete wall (minimum 90mm or thicker).
- 2 Concrete floor slab.
- 3 100mm wide x min 25mm Trafalgar Corex (or 30-60mm Maxilite Board) bedded in intumescent sealant and running across width of aperture. Block mechanically fixed to slab with M6 expanding steel anchors.
- 4 Z275 galvanised steel damper casing 0.6mm minimum thickness.
- 5 Lorient LVH44 intumescent fire damper.
- 6 Casing terminates with breakaway joints, as per AS1682.2.
- 7 Fire damper perimeter sealed with Lorient intumescent sealant.
- 8 Fire damper fixed to casing with 2 x steel screws (100mm centres).
- 9 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 25mm.
- 10 Angles fixed to wall with steel masonry anchors at 150mm centres or at least 2 per side.
- 11 0.6mm (min) Z275 galvanised steel angles to all four sides. Angle dimensions shall be continuous and at least 2 x the dimension of the gap between the damper casing and the penetrated element.



FIRE DAMPER

MASONRY + CONCRETE WALLS

LVH44 in steel casing penetrating fire rated Masonry / Concrete wall

FRL -/120/30 (up to 1200mm x 600mm)

Fire Resistance in accordance with

AS1530.4 2014

Approval Ref

EXOVA EWFA 33233400

Max single cell size

600mm x 600mm

Max modular size

600mm x 1200mm / 1200mm x 600mm

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INSTALLATION INSTRUCTIONS

- ▶ Prepare the wall opening to accept the fire damper and install in wall, as shown in system detail.
- ▶ Non-combustible block is fixed to slab, as per point 3.
- ▶ Lorient intumescent sealant liberally applied to block and duct containing damper is positioned and pushed up tight to packing block.
- ▶ Firestop the gap between the casing and wall with Lorient intumescent sealant, note fill details in point 9.
- ▶ 3 off perimeter angles are mechanically fixed to casing with steel self drilling screws or pop rivets and fixed to wall with masonry anchors, as detailed in point 10.
- ▶ Ductwork shall be connected with breakaway joints, as per point 6.
- ▶ Ensure product identification labels are conspicuously positioned for easy identification.
- ▶ Ensure convenient access is provided to allow for AS1851 inspection and maintenance routines.
- ▶ **Note: Damper casings and mounting flanges supplied by Trafalgar Fire.**

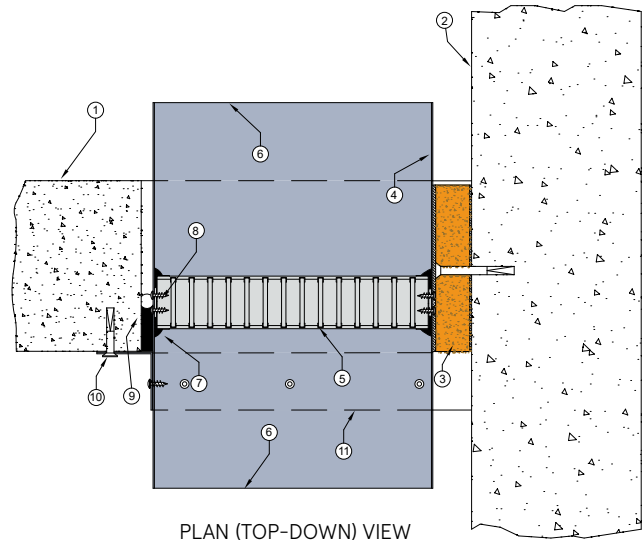
WALL 5 – Duct tight to two walls

Minimum 90mm thick



DESCRIPTION

- 1 Masonry or concrete wall (minimum 90mm or thicker).
- 2 Adjacent masonry or concrete wall.
- 3 100mm wide x min 25mm Trafalgar Corex (or 30-60mm Maxilite Board) bedded in intumescent sealant and running across width of aperture. Block mechanically fixed to wall with M6 expanding steel anchors.
- 4 Z275 galvanised steel damper casing 0.6mm minimum thickness.
- 5 Lorient LVH44 intumescent fire damper.
- 6 Casing terminates with breakaway joints, as per AS1682.2.
- 7 Fire damper perimeter sealed with Lorient intumescent sealant.
- 8 Fire damper fixed to casing with 2 x steel screws (100mm centres).
- 9 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 25mm.
- 10 Angles fixed to wall with steel masonry anchors at 150mm centres or at least 2 per side.
- 11 0.6mm (min) Z275 galvanised steel angles to all three sides. Angle dimensions shall be continuous and at least 2 x the dimension of the gap between the damper casing and the penetrated element.
Each angle fixed to damper casing with steel fasteners at 150mm centres or at least 2 per side.



MASONRY + CONCRETE WALLS



LVH44 in steel casing penetrating fire rated Masonry / Concrete wall

FRL -/120/30 (up to 1200mm x 600mm)

Fire Resistance in accordance with

AS1530.4 2014

Approval Ref

EXOVA EWFA 33233400

Max single cell size

600mm x 600mm

Max modular size

600mm x 1200mm / 1200mm x 600mm

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INSTALLATION INSTRUCTIONS

- ▶ Prepare the wall opening to accept the fire damper and install in wall, as shown in system detail.
- ▶ Non-combustible block is fixed to wall, as per point 3.
- ▶ Lorient intumescent sealant liberally applied to block and duct containing damper is positioned and pushed up tight to packing block.
- ▶ Firestop the gap between the casing and wall with Lorient intumescent sealant, note fill details in point 9.
- ▶ 3 off perimeter angles are mechanically fixed to casing with steel self drilling screws or pop rivets and fixed to wall with masonry anchors, as detailed in point 10.
- ▶ Ductwork shall be connected with breakaway joints, as per point 6.
- ▶ Ensure product identification labels are conspicuously positioned for easy identification.
- ▶ Ensure convenient access is provided to allow for AS1851 inspection and maintenance routines.
- ▶ **Note: Damper casings and mounting flanges supplied by Trafalgar Fire.**



MASONRY & CONCRETE FIRE WALLS

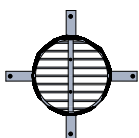
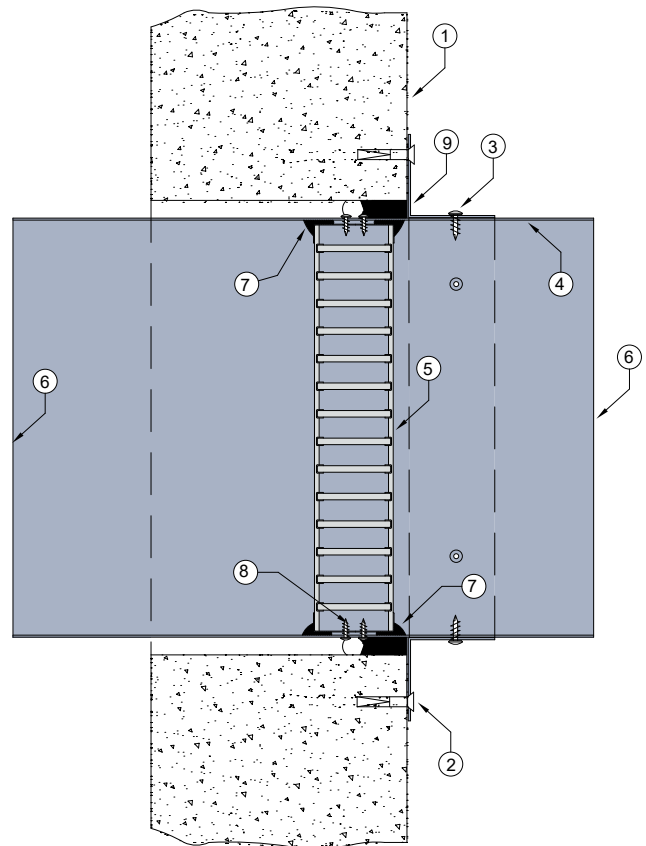
WALL 6 - One Sided Install (Circular)



Minimum 90mm thick

DESCRIPTION

- 1 Masonry or concrete wall (minimum 90mm or thicker).
- 2 Angles brackets fixed to wall with steel masonry anchors.
- 3 25mm x 40mm x 40mm x 0.6mm (min) Z275 galvanised steel angle brackets fitted to damper casing with steel screws and the gap between the damper casing and wall filled with Lorient intumescent sealant.
- 4 Z275 galvanised steel casing minimum thickness 0.6mm.
- 5 Lorient LVH44C intumescent fire damper.
- 6 Casing terminates with breakaway joints, as per AS1682.2.
- 7 Fire damper perimeter sealed with Lorient intumescent sealant.
- 8 LVH44C fixed to casing with 2 x steel screws.
- 9 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 25mm.



3 off fixing angles up to 250mm diameter 4 off fixing angles 300mm to 450mm diameter



LVH44C in steel casing penetrating fire rated Masonry / Concrete wall

FRL -/120/30

Fire Resistance in accordance with

AS1530.4 2014

Approval Ref

EXOVA EWFA 33233400

Max size

450mm diameter

Note: LVH44C up to 250mm diameter can achieve up to -/120/120 when fitted with R1.0 Polyester insulated flexible duct.

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INSTALLATION INSTRUCTIONS

- ▶ Prepare the wall opening to accept the fire damper and install in wall, as shown in system detail.
 - ▶ Fix angle brackets to casing with steel self drilling screws or pop rivets, as detailed in points 2 & 3.
 - ▶ Centralise in aperture and mechanically fix to wall. Firestop the gap between the casing and wall with Lorient intumescent sealant, note fill details in point 9.
 - ▶ Ductwork shall be connected with breakaway joints, as per point 6.
 - ▶ Ensure product identification labels are conspicuously positioned for easy identification.
 - ▶ Ensure convenient access is provided to allow for AS1851 inspection and maintenance routines.
- ▶ Note: Damper casings and mounting flanges supplied by Trafalgar Fire.

WALL 32 – Angle Free

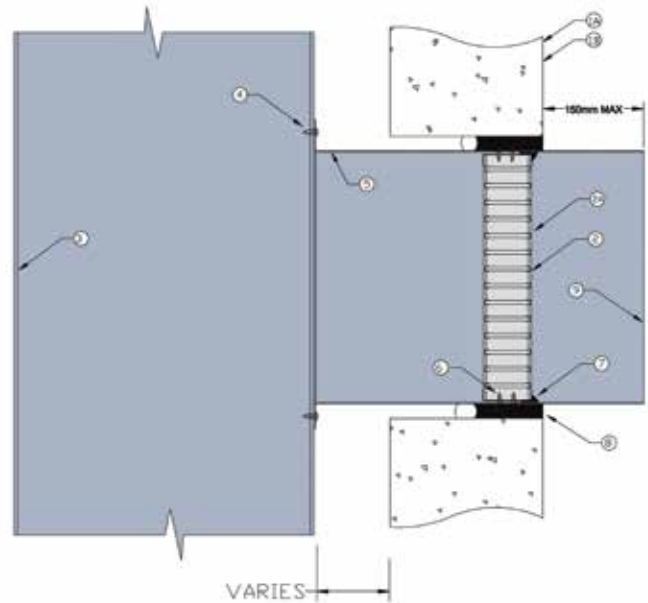
Minimum 90mm thick



ANGLE FREE SYSTEMS

DESCRIPTION

- 1A Masonry or concrete wall minimum 90mm thick.
- 2 Lorient LVH44 intumescent fire damper.
- 3 Protected sheet metal riser.
- 4 Horizontal branch connected to riser with steel fixings or pop rivets.
- 5 Z275 galvanised steel branch min thickness 0.6mm.
- 6 Fire damper fixed to casing with 2 x steel screws (100mm centres).
- 7 Fire damper perimeter sealed with Lorient intumescent sealant.
- 8 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.
- 9 Casing terminates with breakaway joint as per AS1682.2.



FIRE DAMPER

Angle free LVH44 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

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: Damper casings and mounting flanges supplied by Trafalgar Fire.**

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WALL 33 - Angle Free (Circular)

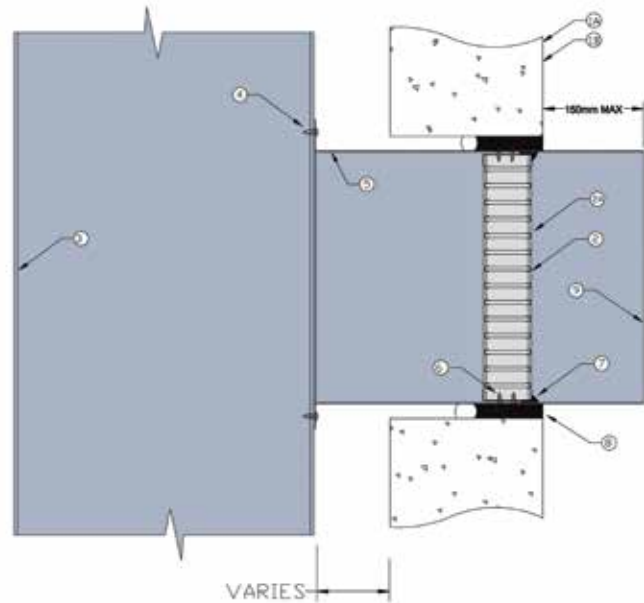
Minimum 90mm thick



ANGLE FREE SYSTEMS

DESCRIPTION

- 1A Masonry or concrete wall minimum 90mm thick.
- 2 Lorient LVH44C intumescent fire damper.
- 3 Protected sheet metal riser.
- 4 Horizontal branch connected to riser with steel fixings or pop rivets.
- 5 Z275 galvanised steel branch min thickness 0.6mm.
- 6 Fire damper fixed to casing with 2 x steel screws (100mm centres).
- 7 Fire damper perimeter sealed with Lorient intumescent sealant.
- 8 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.
- 9 Casing terminates with breakaway joint as per AS1682.2.



FIRE DAMPER

Angle free LVH44C 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

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: Damper casings and mounting flanges supplied by Trafalgar Fire.**

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