



Technical Manual

# Shaftliner CH Stud Walls



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# WALL 27 - Riser Shaft (1-hour)

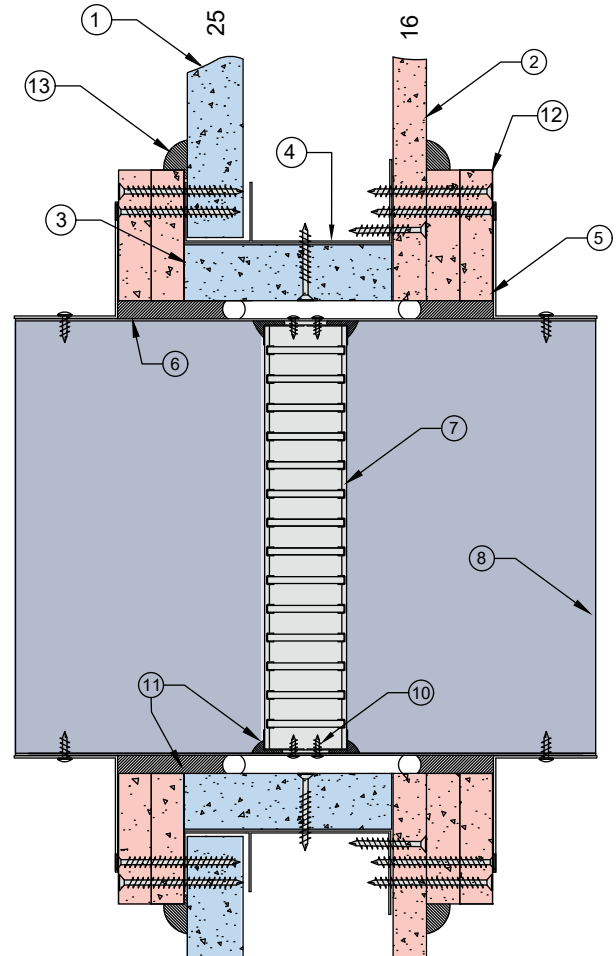
Minimum 80mm thick + Pack Out



SHAFT WALLS

**DESCRIPTION**

- 1 25mm fire rated plasterboard shaft wall liner.
- 2 16mm fire rated plasterboard.
- 3 25mm fire rated shaft liner fully lining the aperture.
- 4 Steel CH section or J track used to line all sides of aperture.
- 5 0.6mm (min) Z275 Gal 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 into:  
Casing: Wafer button head screws 6g x 16mm (max. 150mm centres)  
Studs: Bugle head needle point screws 6g x 40mm (max. 100mm centres)
- 6 Z275 galvanised steel casing minimum thickness 0.6mm.
- 7 Lorient LVH44 intumescent fire damper screw fixed into casing.
- 8 Casing terminates with breakaway joints as per AS1682.2.
- 9 Fire damper perimeter sealed with Lorient intumescent sealant.
- 10 Fire damper fixed to casing with 2 x steel wafer head screws (10g x 22mm 100mm centres).
- 11 Gap between casing and aperture filled with Lorient intumescent sealant. Backing rod used as required to control depth to 40mm deep. The gap between casing and wall shall be between 15-25mm
- 12 2 layers of 100mm x 16mm plasterboard support pad. Fitted with laminating screws no more than 100mm centres.
- 13 Plasterboard support pad treatment - 5mm of Lorient intumescent sealant



**LVH44 in steel casing  
penetrating fire rated  
Plasterboard Shaft wall  
FRL Up to -/60/60**

**Fire Resistance in  
accordance with**

AS1530.4 2014

**Approval Ref**

CSIRO FCO 3487

**Max single cell size**

450mm x 450mm

**INSTALLATION INSTRUCTIONS**

- ▶ Line out the wall opening to accept the fire damper, as shown in this system detail.
- ▶ Centralise the damper casing and firestop the gap between casing and wall with Lorient intumescent sealant, see point 11 for fill details.
- ▶ Perimeter angles are mechanically fixed to casing and to wall with screws specified in points 5.
- ▶ Ductwork shall be connected with breakaway joints, as per point 8.
- ▶ Ensure product identifications 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 28 - Riser Shaft (2-hour)

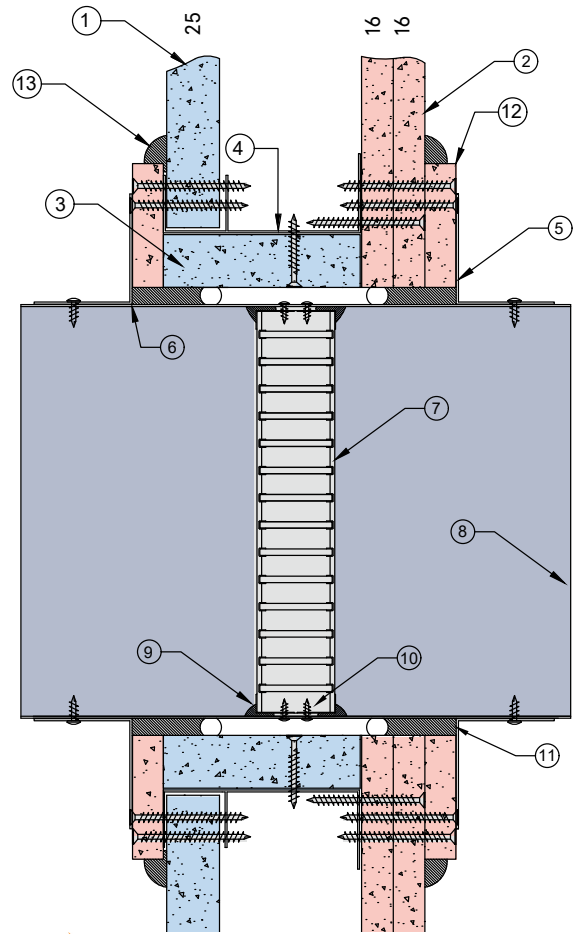
Minimum 96mm thick + Pack Out



SHAFT WALLS

**DESCRIPTION**

- 1 25mm fire rated plasterboard shaft wall liner.
- 2 2 x 16mm fire rated plasterboard.
- 3 25mm fire rated shaft liner fully lining the aperture.
- 4 Steel CH section or J track used to line all sides of aperture.
- 5 0.6mm (min) Z275 Gal 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 into:  
Casing: Wafer button head screws 6g x 16mm (max. 150mm centres).  
Studs: Bugle head needle point screws 6g x 40mm (max. 100mm centres).
- 6 Z275 galvanised steel casing minimum thickness 0.6mm.
- 7 Lorient LVH44 intumescent fire damper screw fixed into casing.
- 8 Casing terminates with breakaway joints as per AS1682.2.
- 9 Fire damper perimeter sealed with Lorient intumescent sealant.
- 10 Fire damper fixed to casing with 2 x steel wafer head screws (10g x 22mm 100mm centres).
- 11 Gap between casing and aperture filled with Lorient intumescent sealant. Backing rod used as required to control depth to 40mm deep. The gap between casing and wall shall be between 15-25mm.
- 12 1 layer of 100mm x 16mm plasterboard support pad. Fitted with laminating screws no more than 100mm centres.
- 13 Plasterboard support pad treatment - 5mm of Lorient intumescent sealant.



**LVH44 in steel casing penetrating fire rated Plasterboard Shaft wall**

**FRL Up to -/120/120**

**Fire Resistance in accordance with**

AS1530.4 2014

**Approval Ref**

CSIRO FCO-3487

**Max single cell size**

450mm x 450mm

**INSTALLATION INSTRUCTIONS**

- ▶ Line out the wall opening to accept the fire damper, as shown in system detail.
- ▶ Centralise the damper casing and firestop the gap between the casing and wall with Lorient intumescent sealant, see point 11 for fill details.
- ▶ Perimeter angles are mechanically fixed to casing with steel self drilling screws and to wall with appropriate length needle point drywall screws, as detailed in point 5.
- ▶ Ductwork shall be connected with breakaway joints, as per point 8.
- ▶ 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 29 – Riser Shaft (1.5-hour)

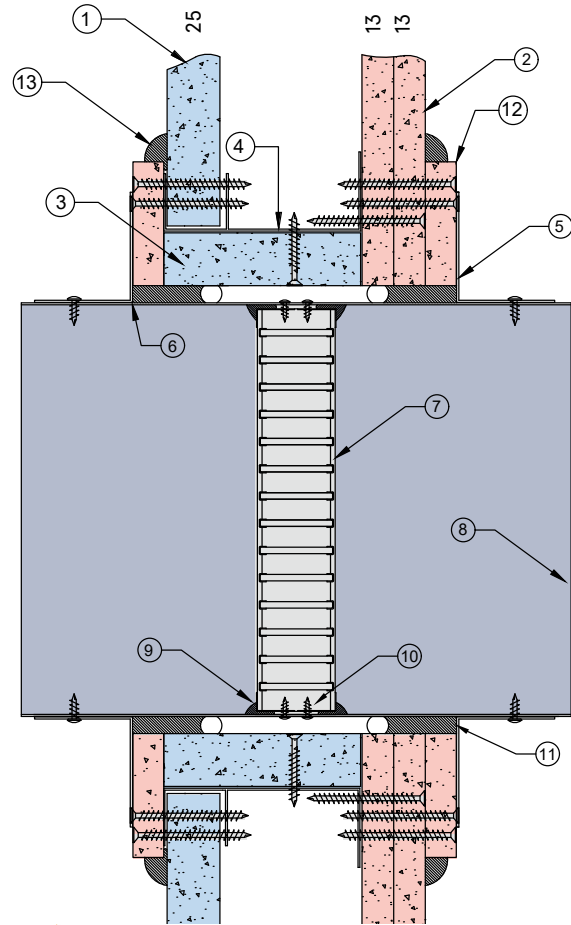
Minimum 90mm thick + Pack Out



SHAFT WALLS

## DESCRIPTION

- |    |   |
|----|---|
| 1  | 25mm fire rated plasterboard shaft wall liner.  |
| 2  | 2 x 13mm fire rated plasterboard.   |
| 3  | 25mm fire rated shaft liner fully lining the aperture.  |
| 4  | Steel CH section or J track used to line all sides of aperture.   |
| 5  | 0.6mm (min) Z275 Gal 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 into:<br><br>Casing: Wafer button head screws 6g x 16mm (max. 150mm centres)<br><br>Studs: Bugle head needle point screws 6g x 40mm (max. 100mm centres) |
| 6  | Z275 galvanised steel casing minimum thickness 0.6mm.   |
| 7  | Lorient LVH44 intumescent fire damper screw fixed into casing.  |
| 8  | Casing terminates with breakaway joints as per AS1682.2.  |
| 9  | Fire damper perimeter sealed with Lorient intumescent sealant.  |
| 10 | Fire damper fixed to casing with 2 x steel wafer head screws (10g x 22mm 100mm centres).  |
| 11 | Gap between casing and aperture filled with Lorient intumescent sealant. Backing rod used as required to control depth to 40mm deep. The gap between casing and wall shall be between 15-25mm   |
| 12 | 1 layer of 100mm x 16mm plasterboard support pad. Fitted with laminating screws no more than 100mm centres.   |
| 13 | Plasterboard support pad treatment – 5mm of Lorient intumescent sealant.  |



**FIRE DAMPER**

**LVH44 in steel casing penetrating fire rated Plasterboard Shaft wall**

**FRL Up to -/90/90**

**Fire Resistance in accordance with**

AS1530.4 2014

**Approval Ref**

CSIRO FCO 3487

**Max single cell size**

450mm x 450mm

## INSTALLATION INSTRUCTIONS

- ▶ Line out the wall opening to accept the fire damper, as shown in this system detail.
- ▶ Centralise the damper casing and firestop the gap between gap and casing and wall with Lorient intumescent sealant, see point 11 for fill details.
- ▶ Perimeter angles are mechanically fixed to casing and to wall with screws specified in points 5.
- ▶ Ductwork shall be connected with breakaway joints, as per point 8.
- ▶ Ensure product identifications 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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