



SYSTEMS	299
SEPARATING WALL SYSTEMS	299
INSTALLATION	302
COMPONENTS	302
GENERAL REQUIREMENTS	303
FIRE RESISTANCE	303
SOUND INSULATION	304
FRAMING	304
PLASTERBOARD FIXING	304
INSTALLATION SEQUENCE	305
CONSTRUCTION DETAILS	307
PENETRATIONS	318
PATCHING	319

3.6 Interhome High-Rise Wall

interhome high-rise systems are designed to meet fire protection and sound insulation requirements for walls separating Sole Occupancy Units (SOU). They are suited to slab-to-slab construction in Class 2 or 3 buildings (apartments, hotels or hostels).

interhome high-rise systems consist of twin steel framed walls with a central fire barrier of 25mm **shaftliner** encased in steel **interhome H-studs**. 16mm **fireshield** laminated to the central fire barrier is required when the outer wall linings do not extend to the soffit.

The central fire barrier provides the primary fire protection and sound insulation barrier for the system, and thus simplifies installation by allowing non-fire rated installation of internal linings and non-fire rated penetrations of the outer wall linings during construction and also once a SOU is occupied.

Warning: All **interhome high-rise** systems are not suitable for use in timber or steel framed buildings with SOU's separated by timber or steel framed floors that require a Fire Resistance Level (FRL). An example of such a building would be a timber framed multi-residential building which has SOU's above one another.



Separating Wall Systems

IHS115	<ul style="list-style-type: none"> • 1 layer of 13mm mastashield • Steel stud framing • Minimum 20mm air gap • 1 layer of 25mm shaftliner encased in interhome H-studs • Minimum 20mm air gap • Steel stud framing • 1 layer of 13mm mastashield 			Fire Resistance Level	
				-/60/60 rated from both sides Report FAR 4815	
	Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)		
	Cavity size = stud size + air gap		Pink® Partition 75mm 11 kg/m ³ in both cavities	Pink® Partition 90mm 14 kg/m ³ in both cavities	⁸ Insul Prediction v8 ⁷ Day Design 5008-29 Note: Impact Sound Resistant - Discontinuous Construction
	110 (eg: 64 stud + 46 gap)	271	-	65 (50) ⁸	
130 (eg: 64 stud + 66 gap)	311	68 (50) ⁷	-		

IHS125	<ul style="list-style-type: none"> • 1 layer of 13mm soundshield or trurock • Steel stud framing • Minimum 20mm air gap • 1 layer of 25mm shaftliner encased in interhome H-studs • Minimum 20mm air gap • Steel stud framing • 1 layer of 13mm soundshield or trurock 			Fire Resistance Level	
				-/60/60 rated from both sides Report FAR 4815	
	Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)		
	Cavity size = stud size + air gap		Pink® Partition 75mm 11 kg/m ³ R1.8 in both cavities		Day Design 5008-18 ¹ CSIRO TL601-01 Note: Impact Sound Resistant - Discontinuous Construction
	71 (eg: 51 stud + 20 gap)	193	64 (51)		
84 (eg: 64 stud + 20 gap)	219	66 (53) ¹			
110	271	67 (54)			

IHS145	<ul style="list-style-type: none"> • 1 layer of 13mm watershield • Steel stud framing • Minimum 20mm air gap • 1 layer of 25mm shaftliner encased in interhome H-studs • Minimum 20mm air gap • Steel stud framing • 1 layer of 13mm watershield 			Fire Resistance Level	
				-/60/60 rated from both sides Report FAR 4815	
	Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)		
	Cavity size = stud size + air gap		Pink® Partition 75mm 11 kg/m ³ R1.8 in both cavities		Day Design 5008-18 Note: Impact Sound Resistant - Discontinuous Construction
	84 (eg: 64 stud + 20 gap)	219	65 (50)		
110 (eg: 64 stud + 46 gap)	271	66 (51)			

IHS155	<ul style="list-style-type: none"> • 1 layer of 13mm mastashield • Steel stud framing • Minimum 20mm air gap • 1 layer of 25mm shaftliner encased in interhome H-studs • Minimum 20mm air gap • Steel stud framing • 1 layer of 13mm watershield 			Fire Resistance Level	
				-/60/60 rated from both sides Report FAR 4815	
	Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)		
	Cavity size = stud size + air gap		Pink® Partition 75mm 11 kg/m ³ in both cavities	Pink® Partition 90mm 14 kg/m ³ in both cavities	Insul Prediction v8 Note: Impact Sound Resistant - Discontinuous Construction
	110 (eg: 64 stud + 46 gap)	271	-	66 (52)	
130 (eg: 64 stud + 66 gap)	311	68 (50)	-		



IHS153		Fire Resistance Level		
	<ul style="list-style-type: none"> • 1 layer of 13mm mastashield • Steel stud framing • Minimum 20mm air gap • 1 layer of 25mm shaftliner encased in interhome H-studs • Minimum 20mm air gap • Steel stud framing • 1 layer of 6mm Villaboard™ 		<p>-/60/60 rated from both sides</p> <p>Report FAR 4815</p>	
	Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	Insul Prediction v8 Note: Impact Sound Resistant - Discontinuous Construction
	Cavity size = stud size + air-gap		Pink® Partition 90mm 14 kg/m³ R2.2 in both cavities	
	110 (eg: 64 stud + 46 gap)	264	65 (51)	

IHS150		Fire Resistance Level		
	<ul style="list-style-type: none"> • 1 layer of 6mm Villaboard™ • Steel stud framing • Minimum 20mm air gap • 1 layer of 25mm shaftliner encased in interhome H-studs • Minimum 20mm air gap • Steel stud framing • 1 layer of 6mm Villaboard™ 		<p>-/60/60 rated from both sides</p> <p>Report FAR 4815</p>	
	Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	Insul Prediction v8 Note: Impact Sound Resistant - Discontinuous Construction
	Cavity size = stud size + air-gap		Pink® Partition 90mm 14 kg/m³ R2.2 in both cavities	
	110 (eg: 64 stud + 46 gap)	257	65 (51)	

IHS156		Fire Resistance Level		
	<ul style="list-style-type: none"> • 1 layer of 13mm soundshield • Steel stud framing • Minimum 20mm air gap • 1 layer of 25mm shaftliner encased in interhome H-studs • Minimum 20mm air gap • Steel stud framing • 1 layer of 13mm watershield 		<p>-/60/60 rated from both sides</p> <p>Report FAR 4815</p>	
	Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	Day Design 5008-48 Note: Impact Sound Resistant - Discontinuous Construction
	Cavity size = stud size + air gap		Pink® Partition 75mm 11 kg/m³ R1.8 in both cavities	
	84 (eg: 64 stud + 20 gap)	219	66 (52)	
	96 (eg: 76 stud + 20 gap)	243	66 (52)	
110	271	67 (53)		

IHS154		Fire Resistance Level		
	<ul style="list-style-type: none"> • 1 layer of 13mm soundshield • Steel stud framing • Minimum 20mm air gap • 1 layer of 25mm shaftliner encased in interhome H-studs • Minimum 20mm air gap • Steel stud framing • 1 layer of 6mm Villaboard™ 		<p>-/60/60 rated from both sides</p> <p>Report FAR 4815</p>	
	Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	Day Design 5008-48 Note: Impact Sound Resistant - Discontinuous Construction
	Cavity size = stud size + air gap		Pink® Partition 75mm 11 kg/m³ R1.8 in both cavities	
	84 (eg: 64 stud + 20 gap)	212	66 (52)	
	96 (eg: 76 stud + 20 gap)	236	66 (52)	
110	264	67 (53)		



IHS130		Fire Resistance Level		
	<ul style="list-style-type: none"> • 1 layer of 13mm fireshield or multishield • Steel stud framing • Minimum 20mm air gap • 1 layer of 25mm shaftliner encased in interhome H-studs • Minimum 20mm air gap • Steel stud framing • 1 layer of 13mm fireshield or multishield 		<p>-/60/60 rated from both sides</p> <p>Report FAR 4815</p>	
	Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	<p>Day Design 5008-18</p> <p>²CSIRO TL601-02</p> <p>Note: Impact Sound Resistant - Discontinuous Construction</p>
	Cavity size = stud size + air gap		Pink [®] Partition 75mm 11 kg/m ³ R1.8 in both cavities	
	71 (eg: 51 stud + 20 gap)	193	64 (50)	
	84 (eg: 64 stud + 20 gap)	219	66 (52) ²	
110 (eg: 64 stud + 46 gap)	271	67 (53)		

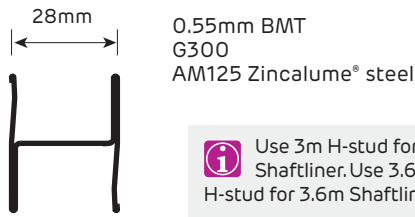
IHS135		Fire Resistance Level		
	<ul style="list-style-type: none"> • 1 layer of 16mm fireshield or multishield • Steel stud framing • Minimum 20mm air gap • 1 layer of 25mm shaftliner encased in interhome H-studs • Minimum 20mm air gap • Steel stud framing • 1 layer of 16mm fireshield or multishield 		<p>-/60/60 rated from both sides</p> <p>Report FAR 4815</p>	
	Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	<p>Day Design 5008-18</p> <p>Note: Impact Sound Resistant - Discontinuous Construction</p>
	Cavity size = stud size + air gap		Pink [®] Partition 75mm 11 kg/m ³ R1.8 in both cavities	
	71 (eg: 51 stud + 20 gap)	199	64 (51)	
	84 (eg: 64 stud + 20 gap)	225	66 (53)	
110 (eg: 64 stud + 46 gap)	277	67 (54)		

IHS151		Fire Resistance Level		
	<ul style="list-style-type: none"> • 1 layer of 10mm watershield plus 6mm Villaboard™ • Steel stud framing • Minimum 20mm air gap • 1 layer of 25mm shaftliner encased in interhome H-studs • Minimum 20mm air gap • Steel stud framing • 1 layer of 10mm watershield plus 6mm Villaboard™ 		<p>-/60/60 rated from both sides</p> <p>Report FAR 4815</p>	
	Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	<p>Day Design 5008-18</p> <p>Note: Impact Sound Resistant - Discontinuous Construction</p>
	Cavity size = stud size + air gap		Pink [®] Partition 75mm 11 kg/m ³ R1.8 in both cavities	
	71 (eg: 51 stud + 20 gap)	199	65 (52)	
	84 (eg: 64 stud + 20 gap)	225	67 (54)	
110 (eg: 64 stud + 46 gap)	277	68 (55)		

IHS112		Fire Resistance Level		
	<ul style="list-style-type: none"> • 2 layers of 10mm mastashield or watershield • Steel stud framing • Minimum 20mm air gap • 1 layer of 25mm shaftliner encased in interhome H-studs • Minimum 20mm air gap • Steel stud framing • 2 layers of 10mm mastashield or watershield 		<p>-/60/60 rated from both sides</p> <p>Report FAR 4815</p>	
	Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	<p>Day Design 5008-18</p> <p>Note: Impact Sound Resistant - Discontinuous Construction</p>
	Cavity size = stud size + air gap		Pink [®] Partition 75mm 11 kg/m ³ R1.8 in both cavities	
	71 (eg: 51 stud + 20 gap)	207	64 (51)	
	84 (eg: 64 stud + 20 gap)	233	66 (53)	
110 (eg: 64 stud + 46 gap)	285	67 (54)		



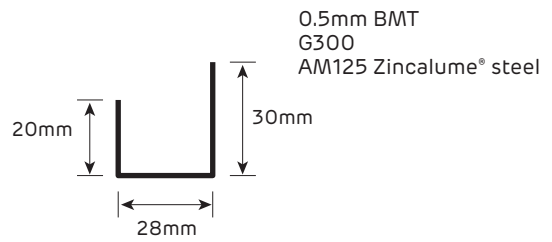
Components



i Use 3m H-stud for 3m Shaftliner. Use 3.6m H-stud for 3.6m Shaftliner.

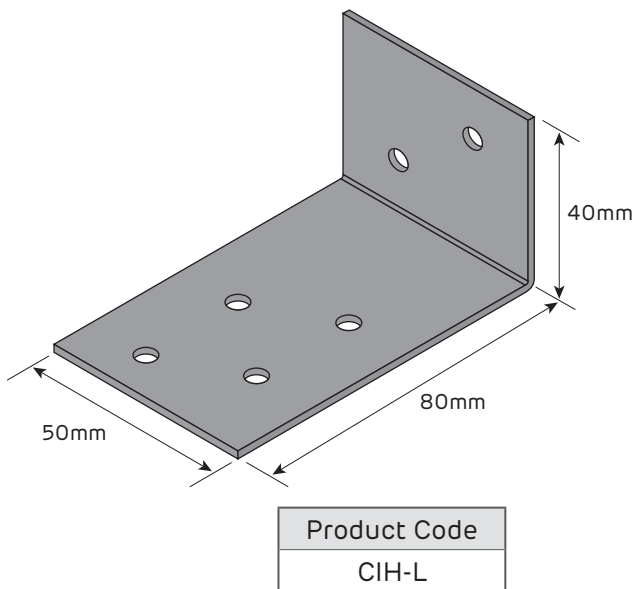
Product Code	Length (mm)
IHS25-30	3000
IHS25-36	3600

FIGURE 1 interhome H-stud Profile



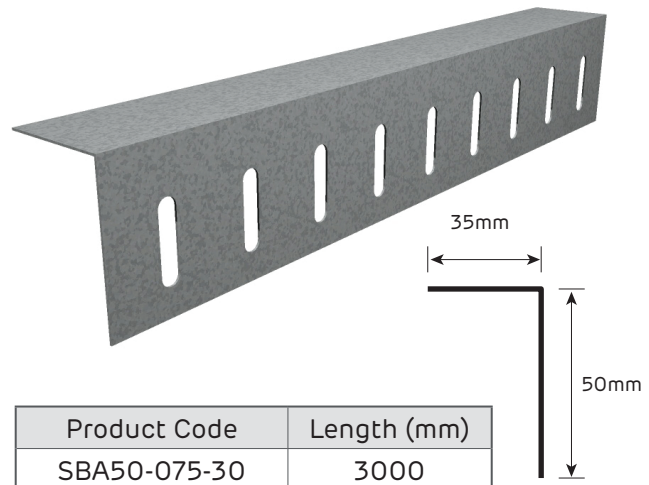
Product Code	Length (mm)
T28-30	3000

FIGURE 2 J-Track Profile



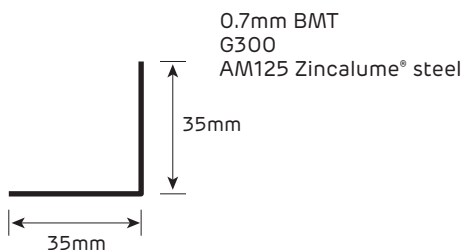
Product Code
CIH-L

FIGURE 3 interhome aluminium clip Isometric



Product Code	Length (mm)
SBA50-075-30	3000

FIGURE 4 Slotted Head Angle 0.75mm BMT Profile and Perspective



Product Code	Length (mm)
BA35-070-30	3000
BA35-070-36	3600

FIGURE 5 35x35mm Steel Backing Angle 0.7mm BMT Profile

Plasterboard

Central Fire Barrier

- > Siniat 25mm **shaftliner**
- > Siniat 25mm **intershield**

Wall Linings

- > Siniat **mastashield**
- > Siniat **soundshield**
- > Siniat **watershield**
- > Siniat **fireshield**
- > Siniat **multishield**
- > Siniat **trurock**
- > James Hardie Villaboard™



General Requirements

Use either shaftliner , or for added mould protection intershield in the central fire barrier
Apply bindex fire and acoustic sealant to all gaps in the central fire barrier to maintain fire and acoustic integrity. If sheets or tracks are touch fitting and no gap exists, fire sealant is not required.
If interhome aluminium clips (CIH-L) are required, they are to connect interhome H-studs to the stud frames on either side. Aluminium will melt in a fire so the frame of the SOU on the fire side can detach from the central fire barrier.
Leave a gap of at least 20mm between the central fire barrier and the studs of both frames. A gap of at least 25mm is recommended on the side that has the fireshield laminated to the shaftliner .
Control joints are not required in the central fire barrier.
Refer to Section 3.1 for steel stud framing and internal lining requirements.



- > Refer to the **interhome high-rise** 90 Minute Supplement for non-load bearing FRL -/90/90 walls.
- > Refer to the **interhome** Class 1 Systems and Installation Guide for load bearing walls with an FRL of 60/60/60 for separating Class 1 buildings from ground to roof.
- > Refer to the **interhome** Class 2 Systems and Installation Guide for load bearing walls with an FRL of 90/90/90 for Class 2 Type A buildings where the wall starts at a slab or other fire rated support and finishes under a roof.

Fire Resistance

All systems in this section are displayed with an FRL of -/60/60 to indicate that they are not usually used to support other building elements. However, these systems do have an FRL of 60/60/60 for the frame on the opposite side to fire attack. In a fire event, the framing on the fire side of the central fire barrier is considered to collapse before 60 minutes.
Where the outer wall linings do not extend full height to the soffit, 16mm fireshield is laminated to the 25mm shaftliner which also provides an FRL of -/60/60. The 16mm fireshield must overlap a minimum of 150mm below the ceiling [refer to construction details].
The outer wall lining and cavity insulation of any interhome high-rise system can be used on one side of a different system without reducing its FRL. The linings may also transition along a wall from one Interhome High-Rise system to another.



Sound Insulation

Services installed in one cavity have an acoustic rating to the other side of the **interhome high-rise** wall of at least $R_w + C_{tr} 40$ which meets the requirements of the NCC for walls separating soil, waste or water supply pipes from a habitable room.

When the internal lining and cavity insulation of one **interhome high-rise** system is used on one side of a different **interhome high-rise** system, the acoustic rating is the lower of the two provided that the central fire barrier and stud cavity sizes are the same.

Framing

Use 3m **interhome H-studs** with 3m **shaftliner** panels and 3.6m **interhome H-studs** with 3.6m **shaftliner** panels. Use **interhome aluminium clips** as shown in Figure 16 for walls higher than the H-stud length and 7.2m.

Siniat Internal Wind Load Calculator



Refer to Section 2.3 for assistance determining the relevant internal wind pressures for a specific project. Or use the Siniat Internal Wind Load Calculator by clicking on the link or by using your phone's camera on the QR code.

Table 1 Screw Type and Minimum Size for Steel Framing

Fixing Aluminium Clips	Fastener
interhome aluminium clips to steel interhome H-studs	8g x 16mm fine thread screw
interhome aluminium clips to steel interhome H-studs through 16mm fireshield	8g x 30mm fine thread screw
General Steel Framing	Fastener
0.5 - 0.75mm steel framing	8g x 16mm fine thread screw
1.15mm steel framing	10g x 16mm fine thread screw

Refer to 'Fasteners and Anchors' in Section 2 for typical fasteners and anchors available.

Plasterboard Fixing

shaftliner or **intershield** are friction fitted into the **interhome H-studs** and J-tracks

Install the outer (internal) wall linings with the 'Screw and Adhesive Method' or the 'Screw Only Method'. Both methods can be used to achieve the fire rating.

Table 2 Screw Type and Minimum Size for the Installation of Plasterboard to Steel

Plasterboard Thickness	1st Layer
10mm	6g x 25mm screw
13mm	6g x 25mm screw
16mm	6g x 32mm screw

1. For steel ≤ 0.75 mm BMT, use fine thread needle point screws.
2. For steel ≥ 0.75 mm BMT, use fine thread drill point screws.
3. 10g x 38mm Laminating screws may be used as detailed in installation diagrams.

Installation Sequence

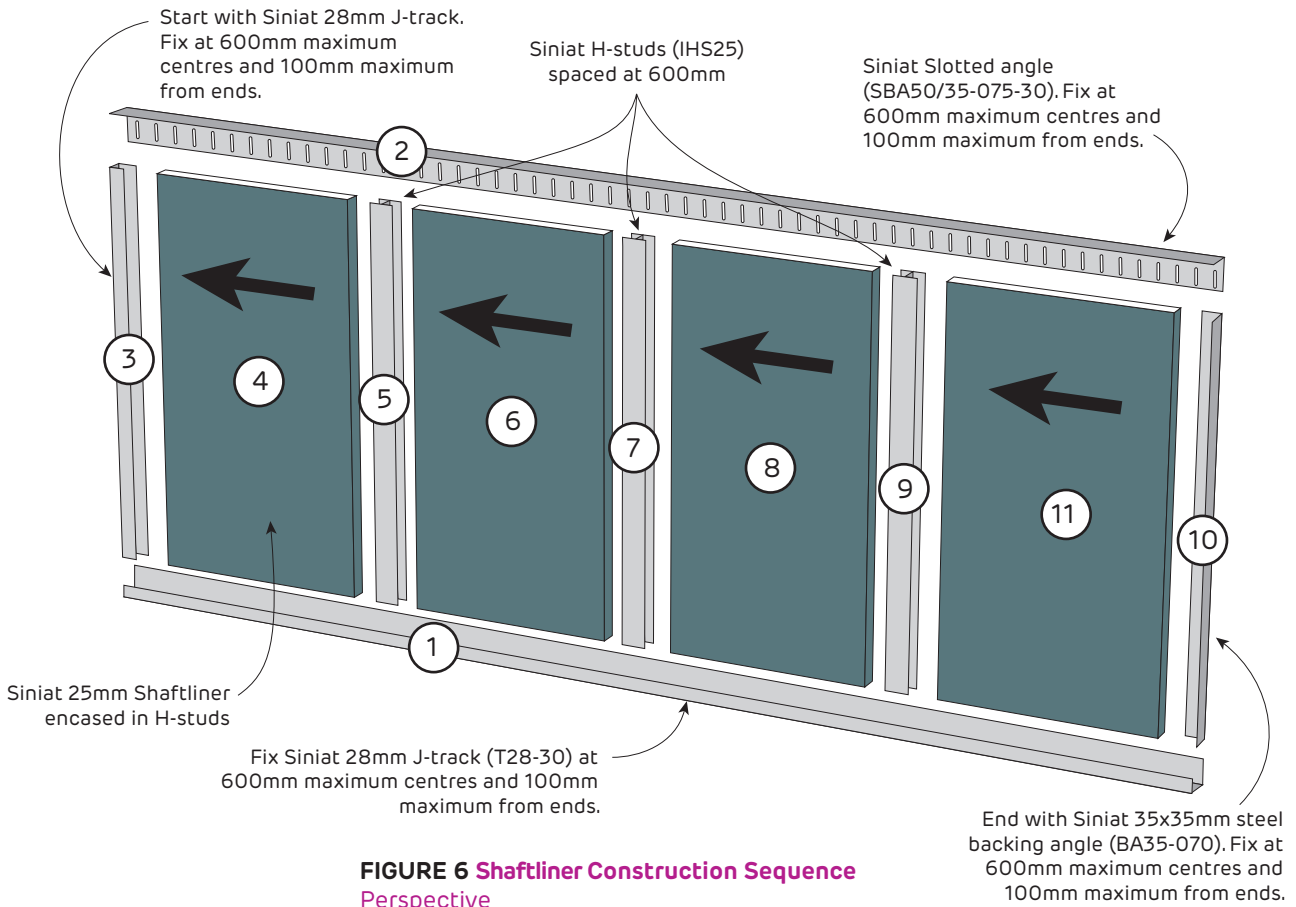


FIGURE 6 Shaftliner Construction Sequence
Perspective

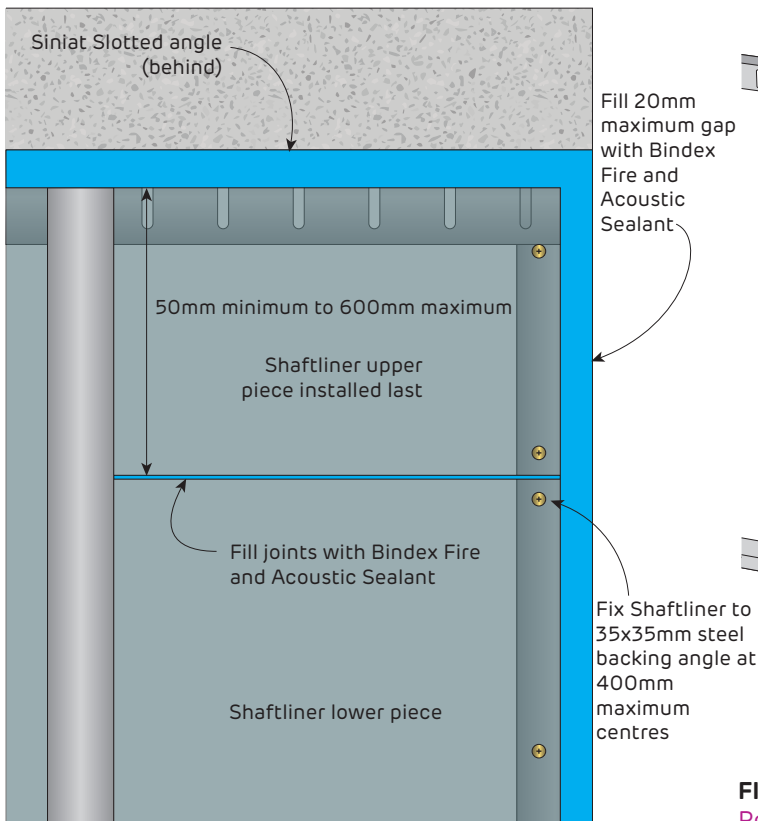


FIGURE 7 Alternative Shaftliner End Construction
Elevation

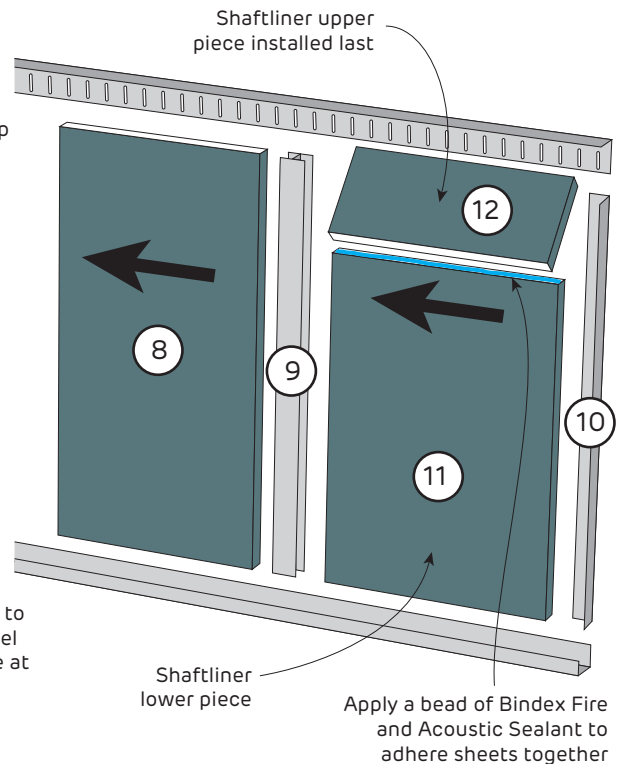


FIGURE 8 Alternative Shaftliner End Construction
Perspective



Fire Rated

InterHome High-Rise Central Fire Barrier Installation

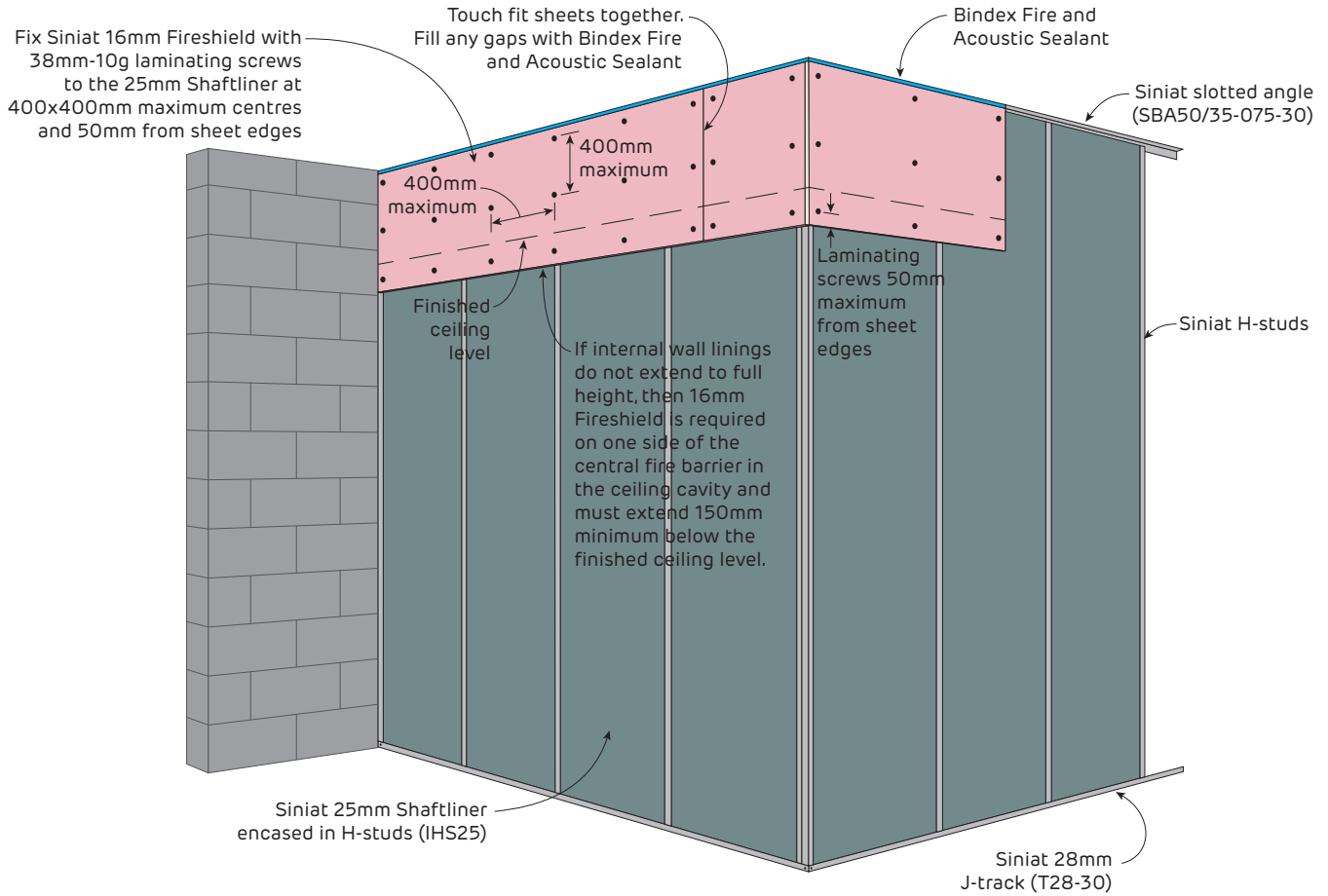


FIGURE 9 Central Fire Barrier for FRL-/60/60 Systems

Perspective

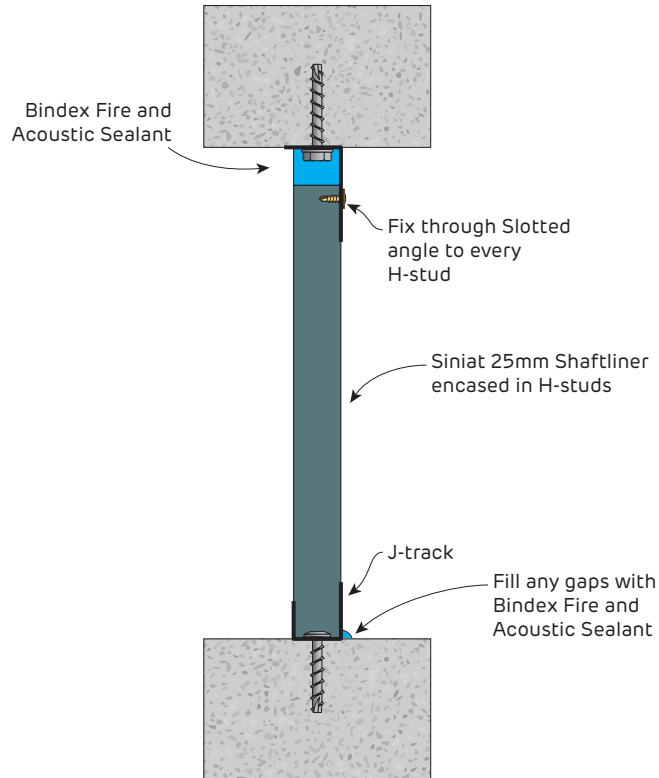


FIGURE 10 Central Fire Barrier

For FRL-/60/60 Systems

Section

Fire Rated

InterHome High-Rise Head and Base Detail - FRL -/60/60 - Wall Height ≤ 3.6m

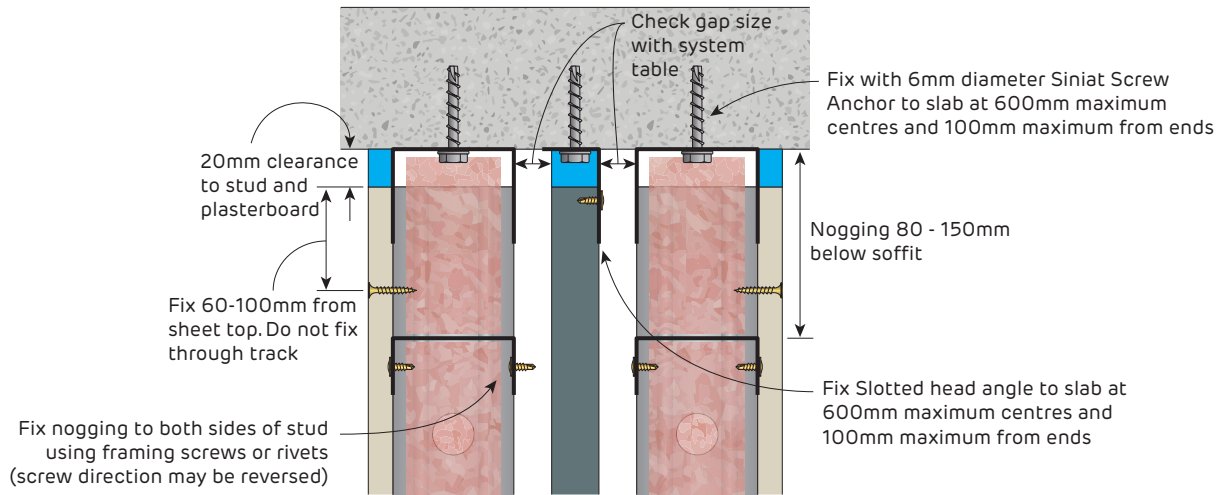


FIGURE 11 Wall Head
Slotted Steel Angle above Shaftliner Section

i Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

i Do not rigidly fix cornice to non-load bearing wall head and soffit, as slab deflection is expected.

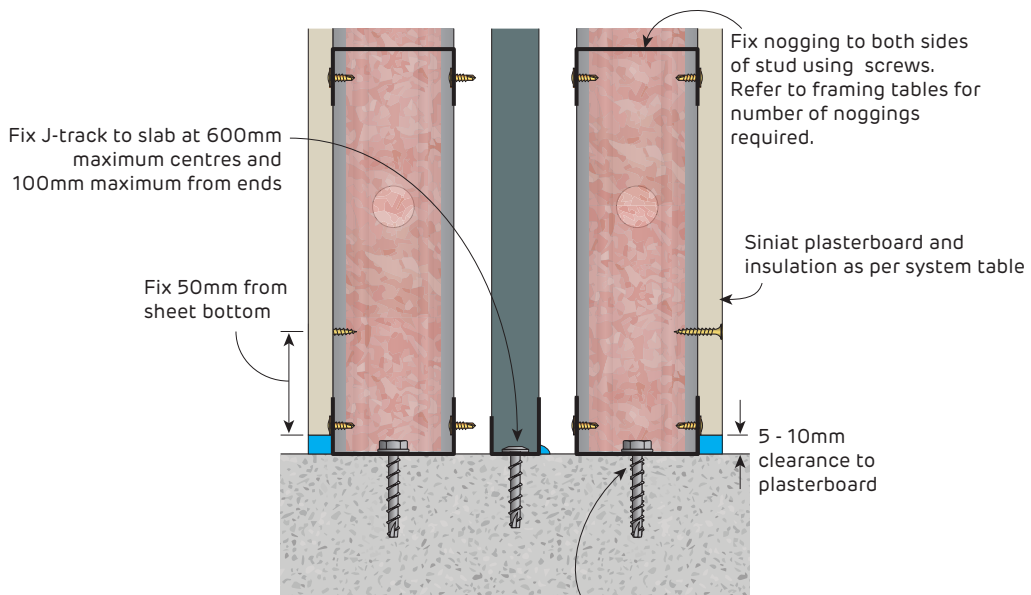


FIGURE 12 Wall Base
J-track below Shaftliner Section

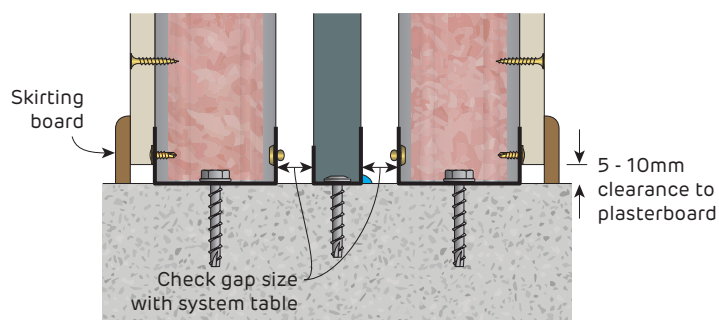


FIGURE 13 Alternative Wall Base
J-track below Shaftliner Section



Fire Rated

InterHome High-Rise Head Details with CAC Ceiling - FRL -/60/60 - Wall Height ≤ 3.6m

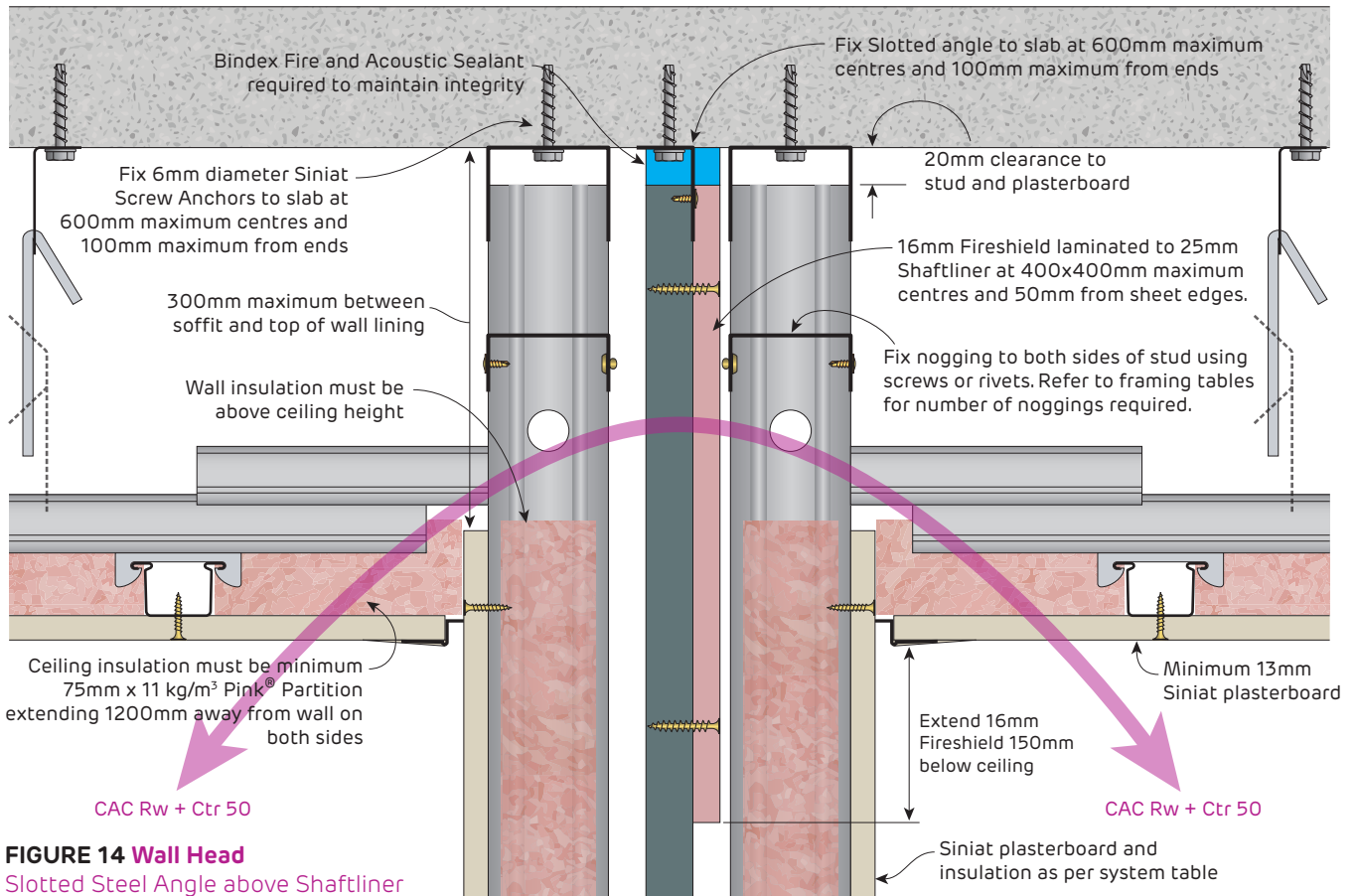


FIGURE 14 Wall Head
Slotted Steel Angle above Shaftliner Section

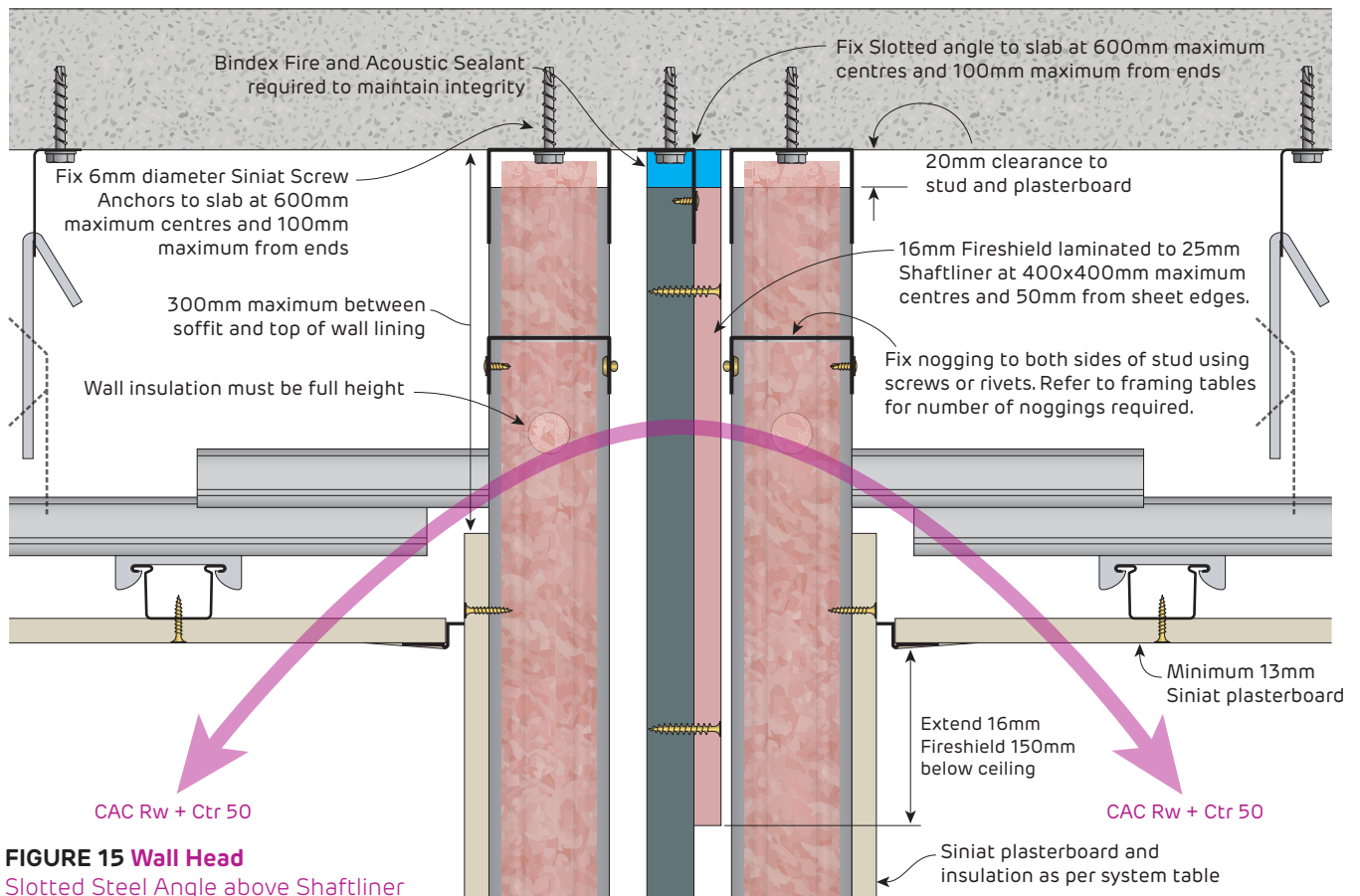


FIGURE 15 Wall Head
Slotted Steel Angle above Shaftliner Section

Fire Rated

InterHome High-Rise Head Details with CAC Ceiling - FRL -/60/60 - Wall Height 3.6m to 7.2m

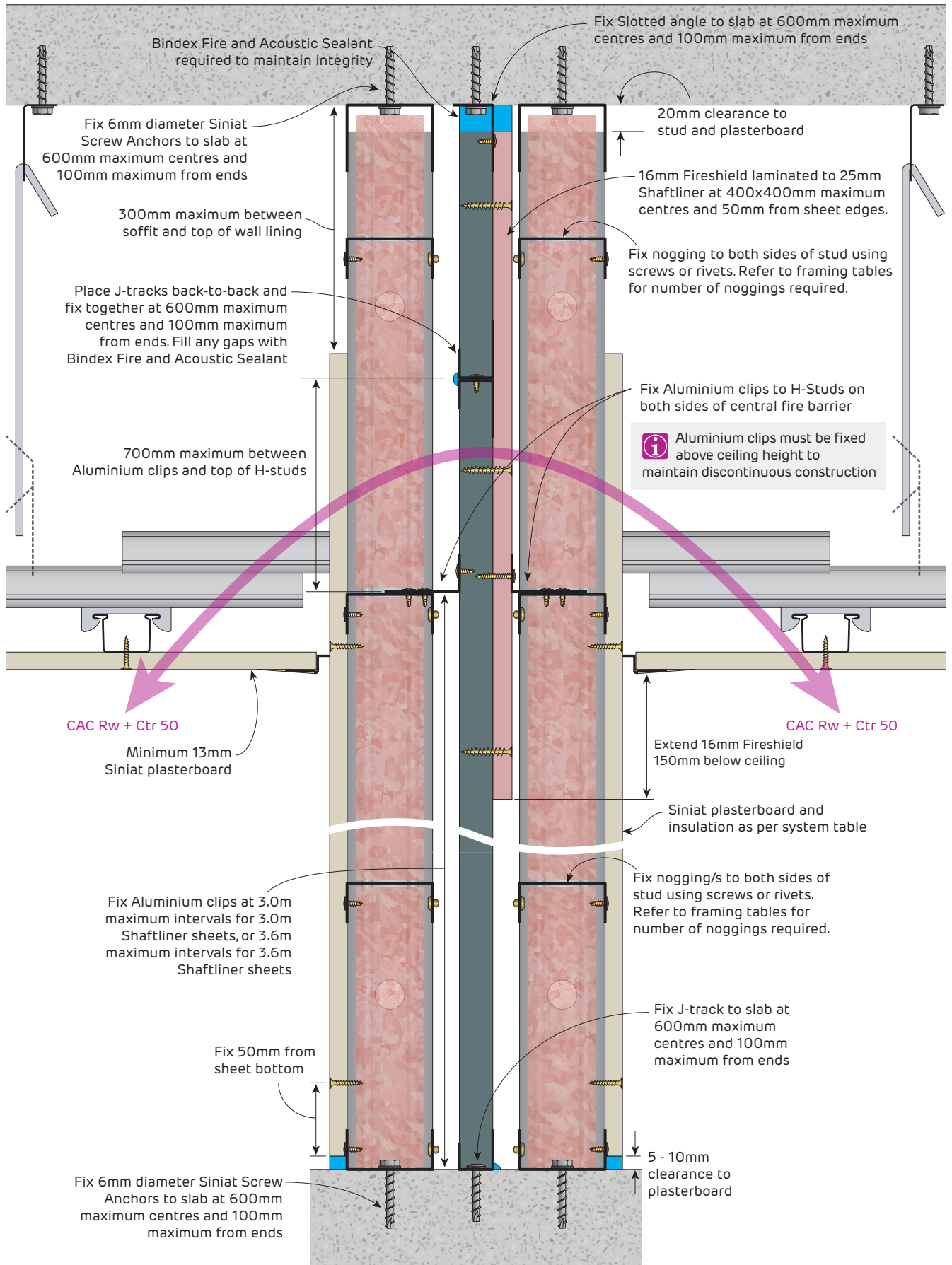


FIGURE 16 Walls above 3.0m/3.6m (H-stud length) to 7.2m
Slotted Steel Angle above Shaftliner
Section



Fire Rated

InterHome High-Rise Head Details with CAC Ceiling - FRL -/60/60

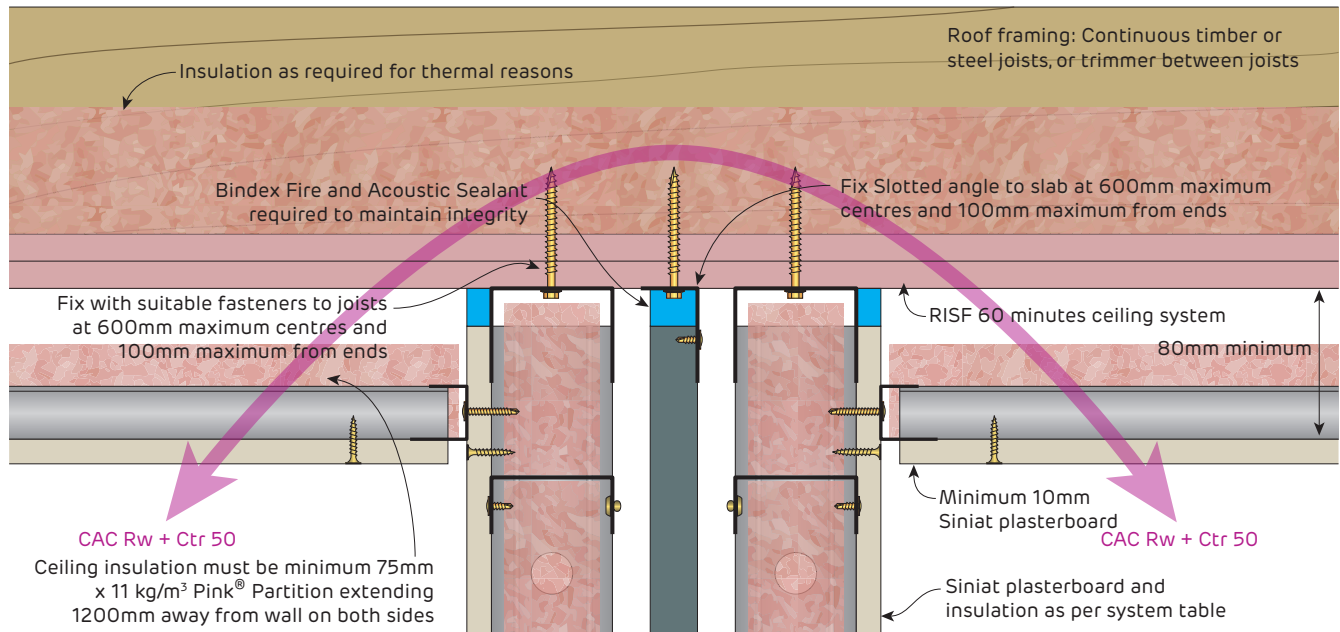


FIGURE 17 Wall Head

Slotted Steel Angle above Shaftliner Section

Fire Rated

InterHome High-Rise Details - FRL -/60/60

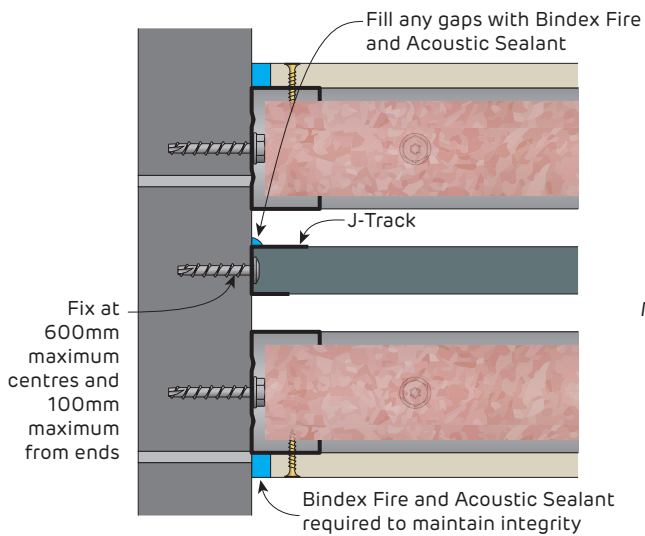


FIGURE 18 Wall End to Masonry

**J-track
Plan**

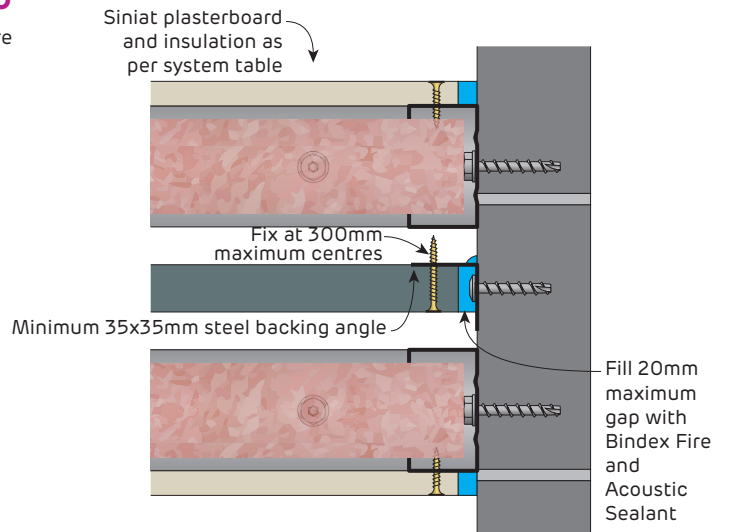


FIGURE 19 Wall End to Masonry

**Steel angle
Plan**

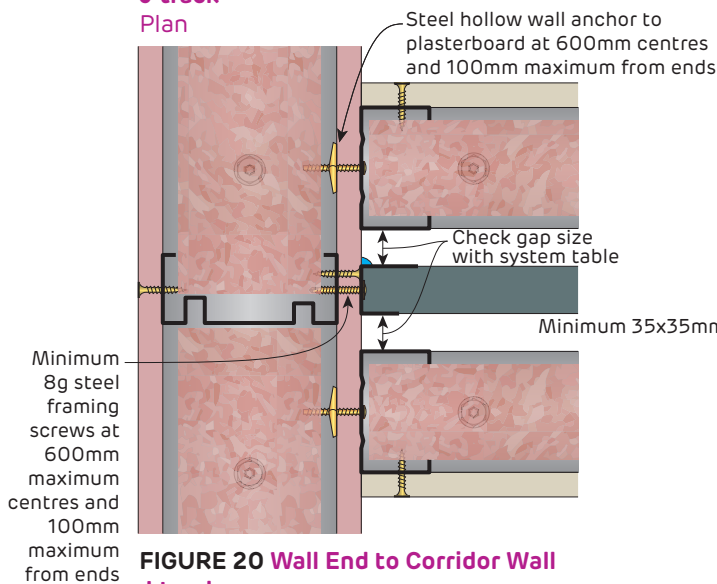


FIGURE 20 Wall End to Corridor Wall

**J-track
Plan**

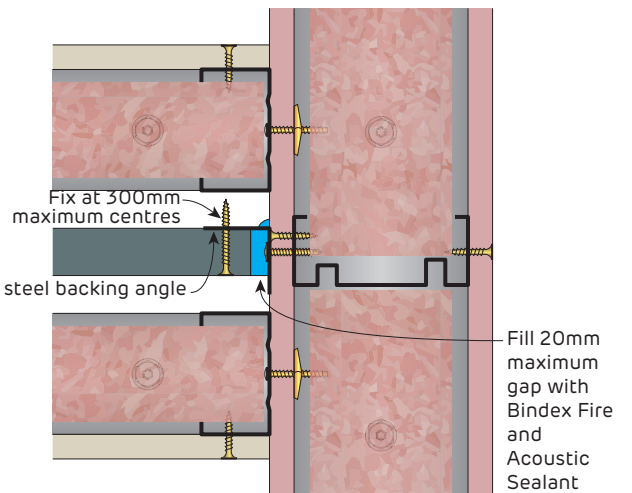


FIGURE 21 Wall End to Corridor Wall

**Steel angle
Plan**

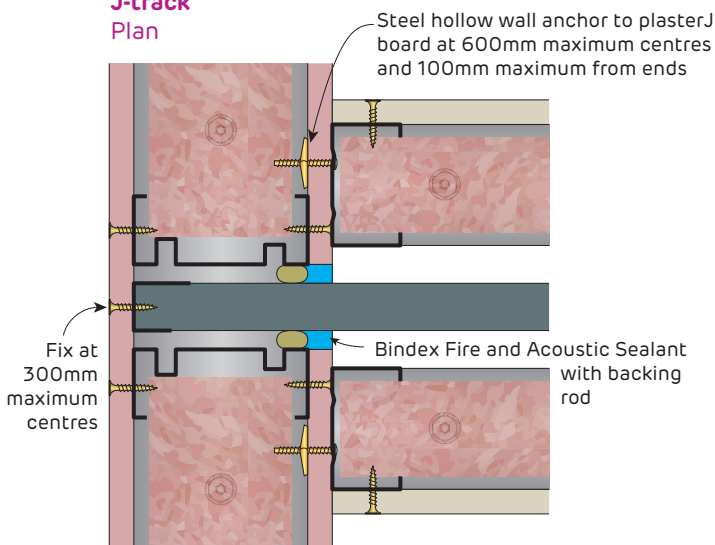


FIGURE 22 Wall End to Corridor Wall

Improved Acoustic Detail - J-track

Plan

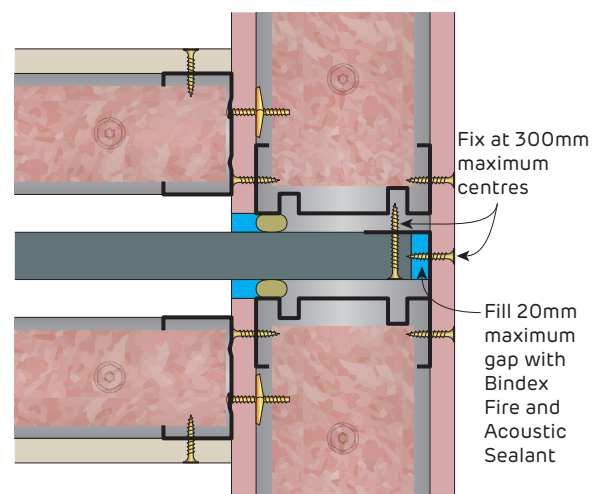


FIGURE 23 Wall End to Corridor Wall

Improved Acoustic Detail - Steel angle

Plan

Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity



Fire Rated

InterHome High-Rise Details - FRL -/60/60

Steel hollow wall anchor to plasterboard at 600mm maximum centres and 100mm maximum from ends, or 41mm x 6g plasterboard screws through Shaftliner into stud at 300mm maximum centres

Siniat plasterboard and insulation as per system table

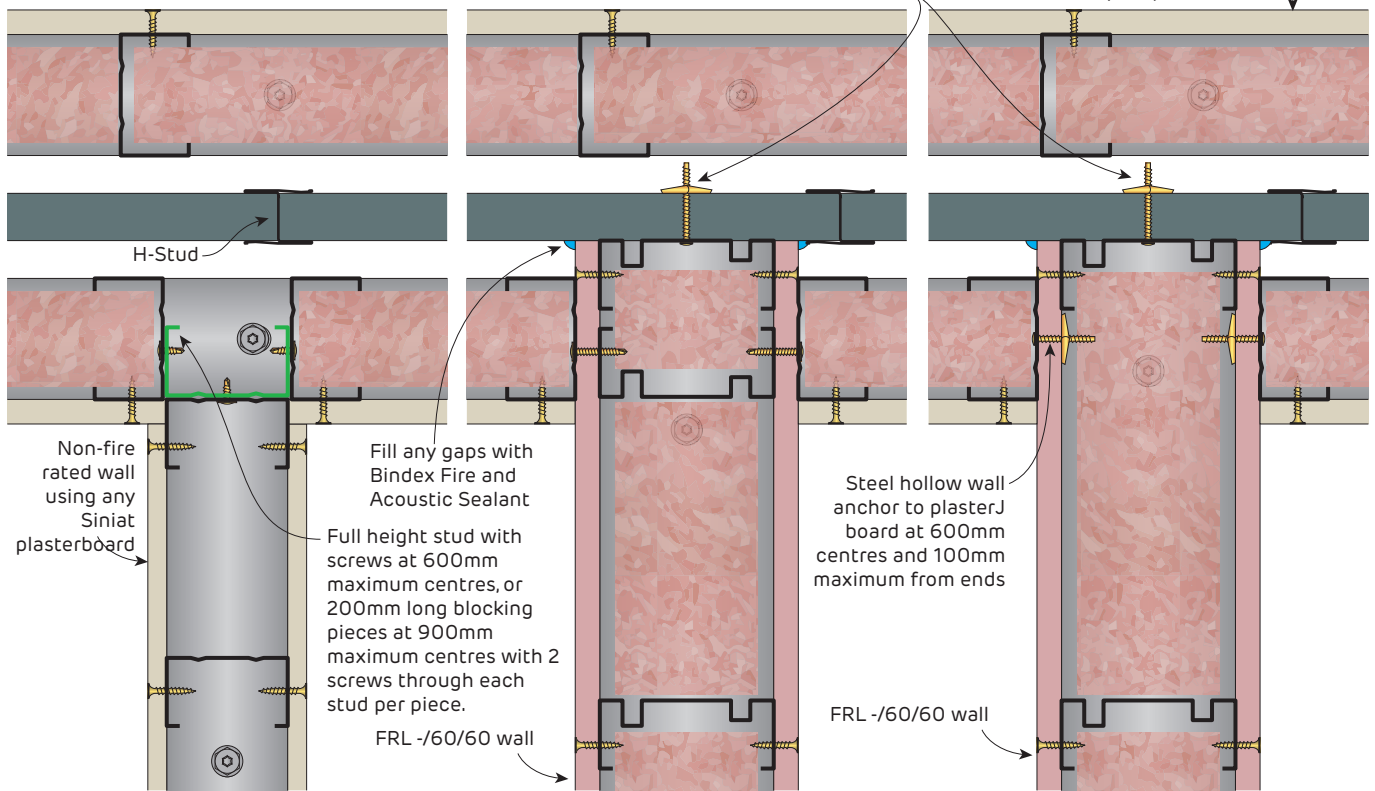


FIGURE 24 Wall Intersection with Non-Fire Rated Wall Plan

FIGURE 25 Wall Intersection with Fire Rated Wall Plan

FIGURE 26 Wall Intersection with Fire Rated Wall Plan

i Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

Minimum 8g steel framing screws at 600mm maximum centres and 100mm maximum from ends

Steel hollow wall anchor to plasterboard at 600mm maximum centres and 100mm maximum from ends, or 41mm x 6g plasterboard screws through Shaftliner into J-track at 300mm maximum centres

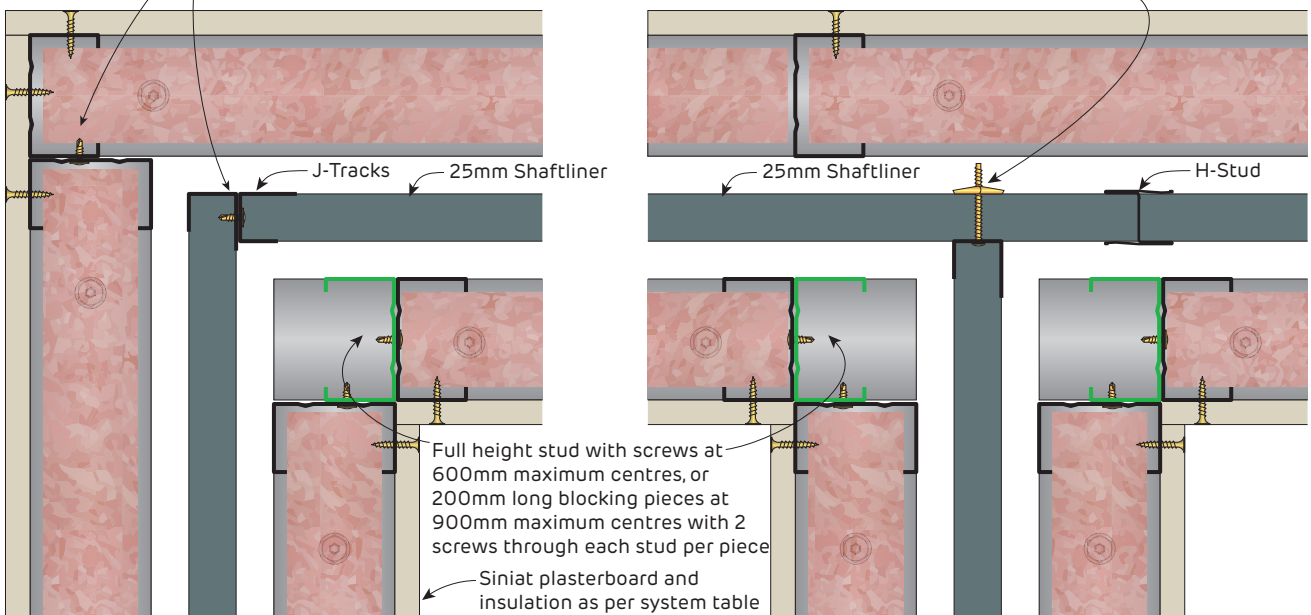


FIGURE 27 Wall Corner Plan

FIGURE 28 Corridor Wall to Inter-tenancy Wall Junction Plan

Fire Rated

InterHome High-Rise Details - FRL -/60/60

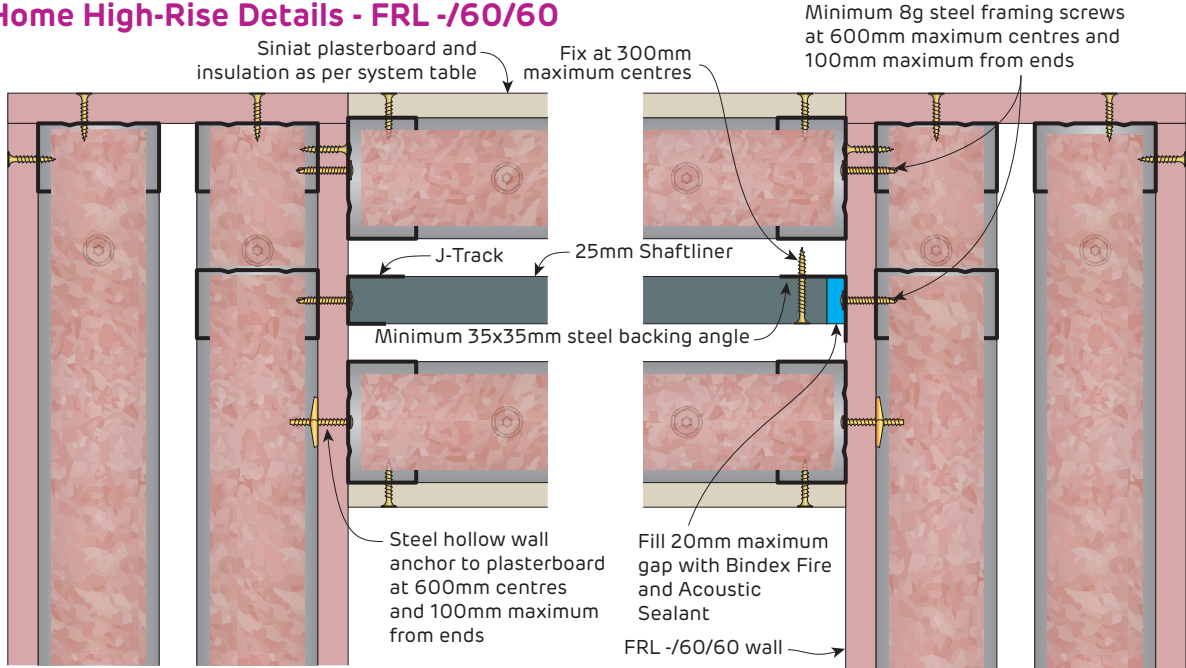


FIGURE 29 InterHome High-Rise Wall Connection to Fire Rated Plasterboard Wall Plan

FIGURE 30 InterHome High-Rise Wall Connection to Fire Rated Plasterboard Wall Plan

i Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

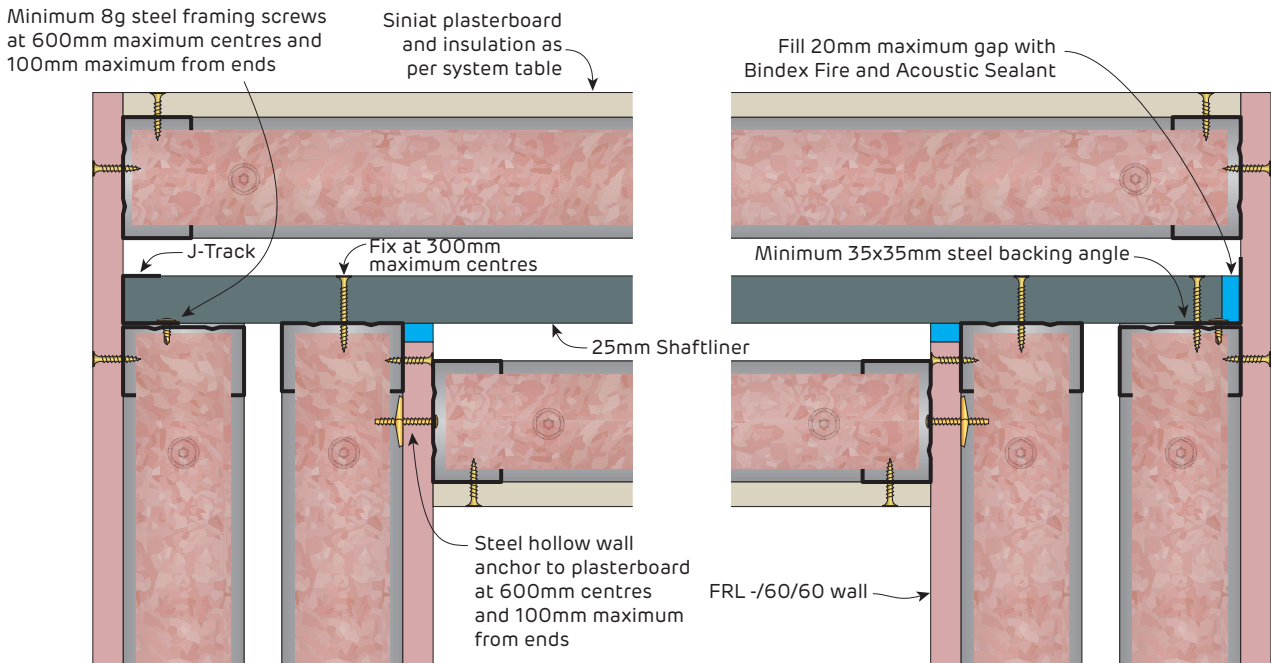


FIGURE 31 InterHome High-Rise Wall Connection to Fire Rated Plasterboard Wall Plan

FIGURE 32 InterHome High-Rise Wall Connection to Fire Rated Plasterboard Wall Plan



Fire Rated

InterHome High-Rise Details - FRL -/60/60

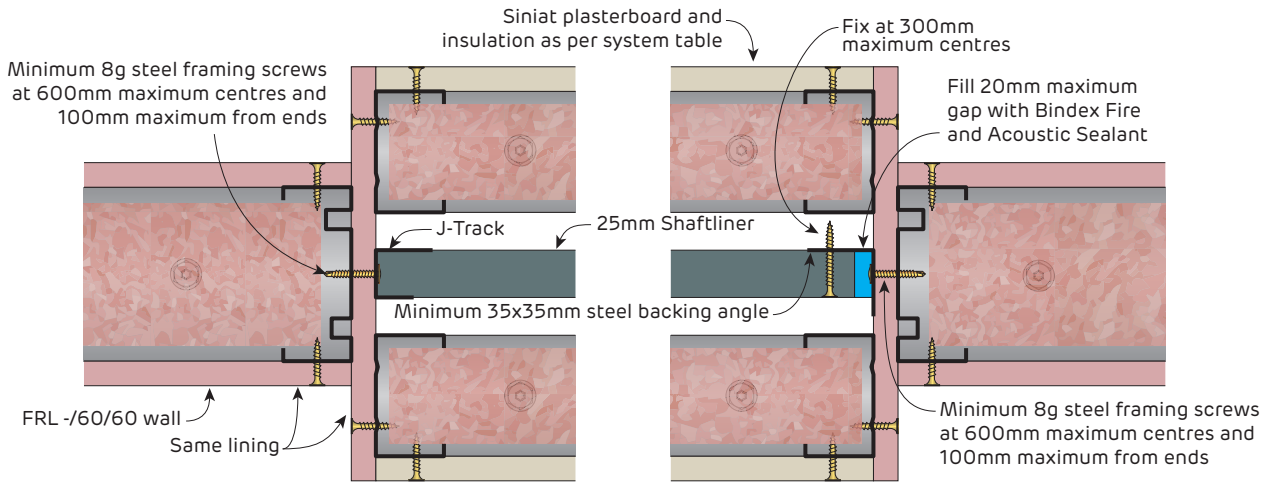


FIGURE 33 InterHome High-Rise Wall Transition to Single Stud Fire Rated Plasterboard Wall
Plan

FIGURE 34 InterHome High-Rise Wall Transition to Single Stud Fire Rated Plasterboard Wall
Plan

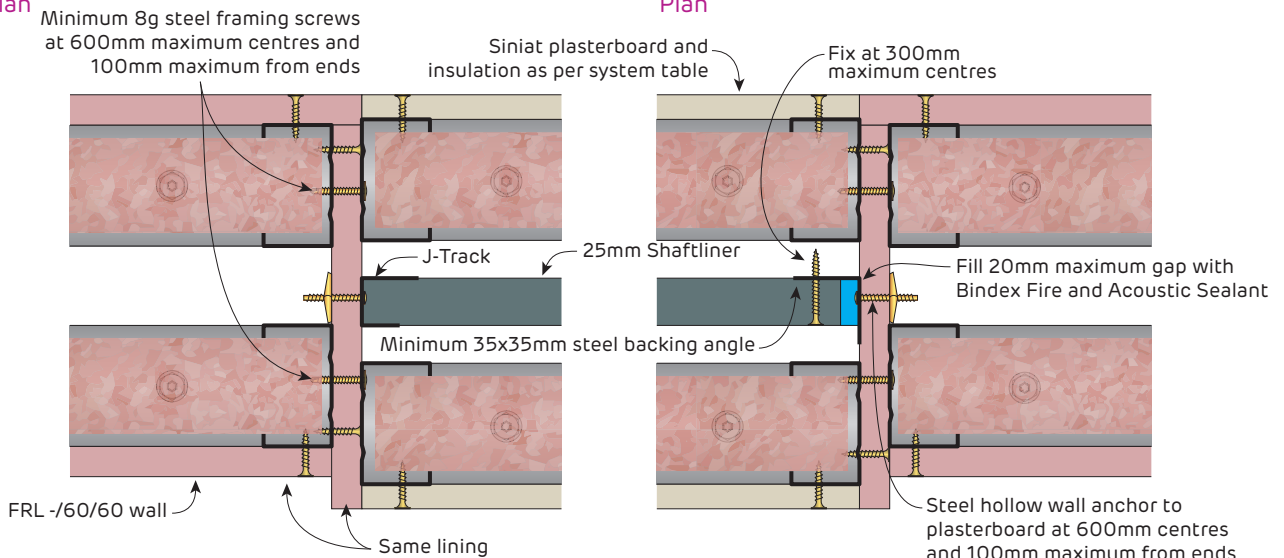


FIGURE 35 InterHome High-Rise Wall Transition to Double Stud Fire Rated Plasterboard Wall
Plan

FIGURE 36 InterHome High-Rise Wall Transition to Double Stud Fire Rated Plasterboard Wall
Plan

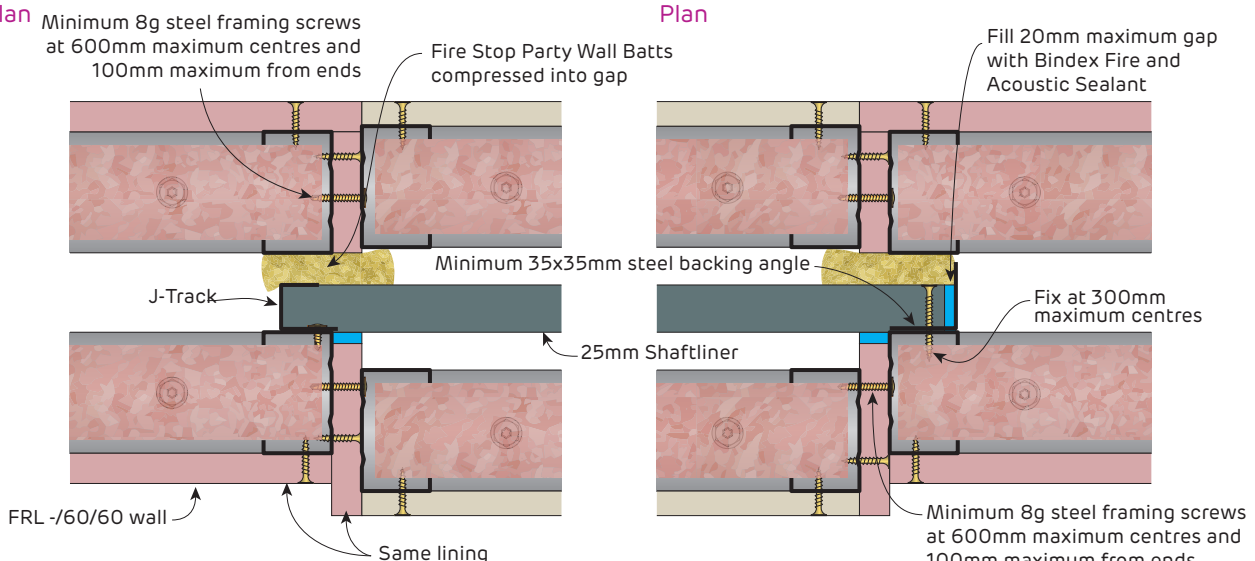


FIGURE 37 InterHome High-Rise Wall Transition to Double Stud Fire Rated Plasterboard Wall
Plan

FIGURE 38 InterHome High-Rise Wall Transition to Double Stud Fire Rated Plasterboard Wall
Plan

Fire Rated

InterHome High-Rise Around Column Details - FRL -/60/60

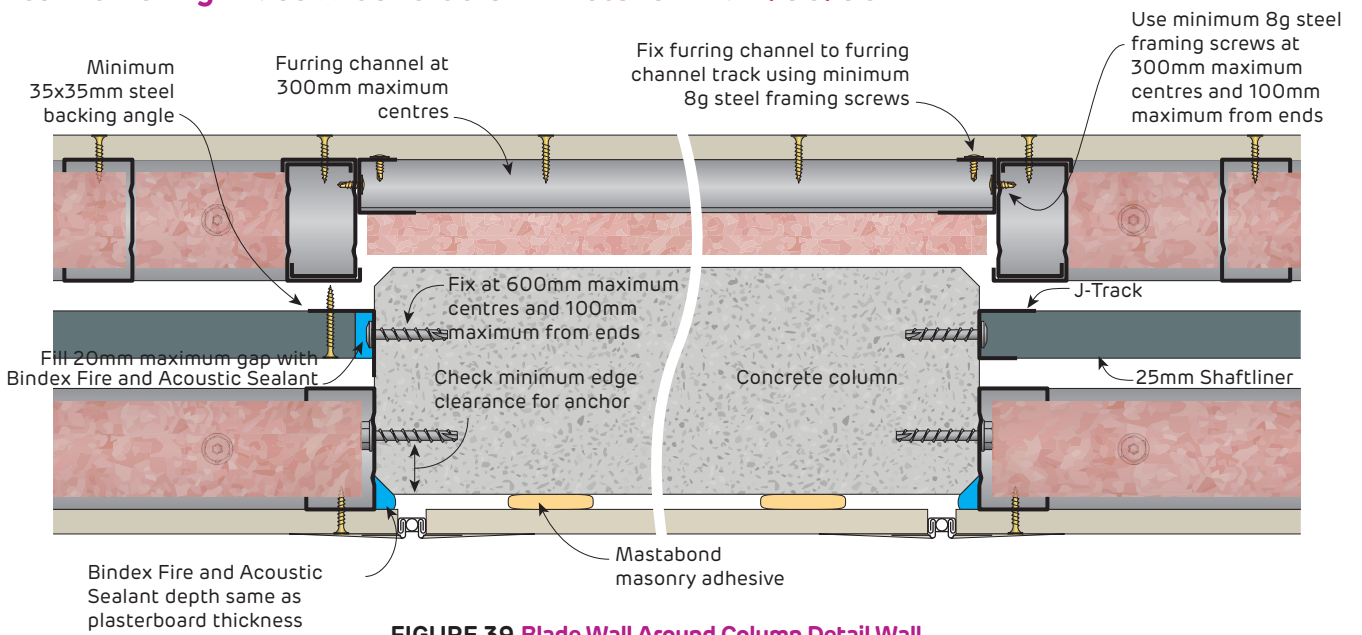


FIGURE 39 Blade Wall Around Column Detail Wall Plan

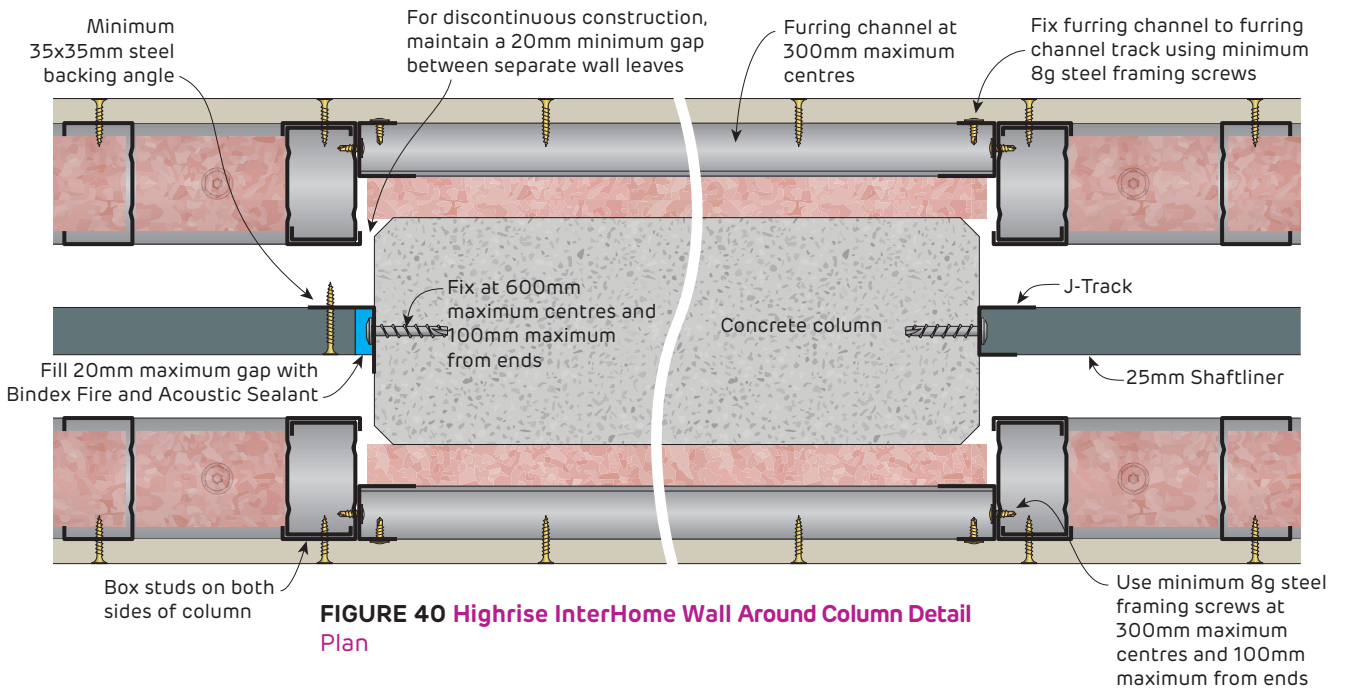


FIGURE 40 Highrise InterHome Wall Around Column Detail Plan



Fire Rated

InterHome High-Rise Details - FRL -/60/60

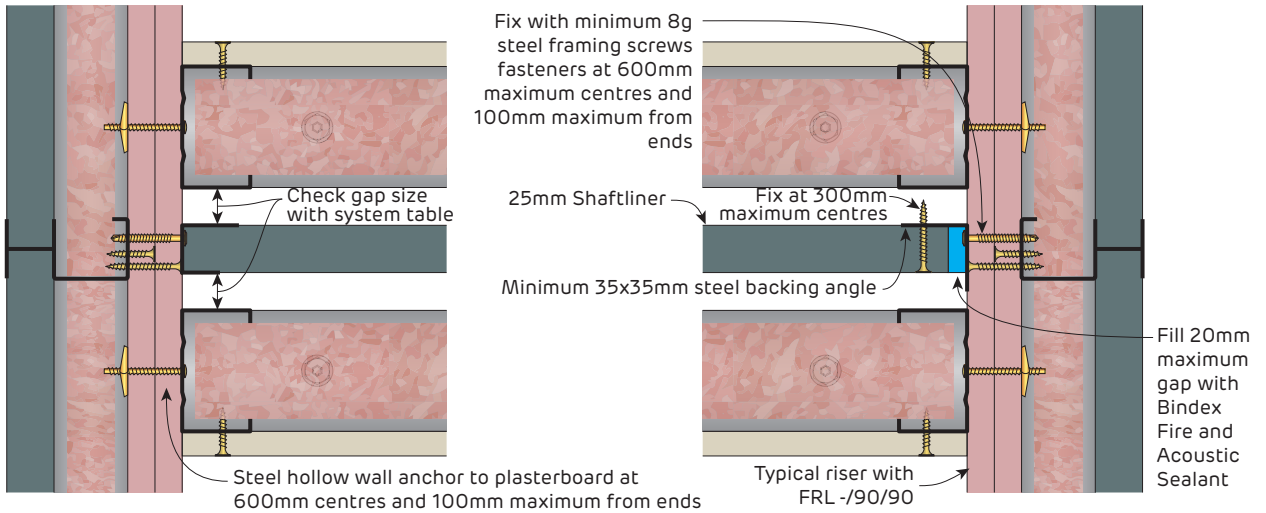


FIGURE 41 InterHome High-Rise Wall to Shaft Wall Plan

FIGURE 42 InterHome High-Rise Wall to Shaft Wall Plan

i Low sound flanking resistance for separating walls

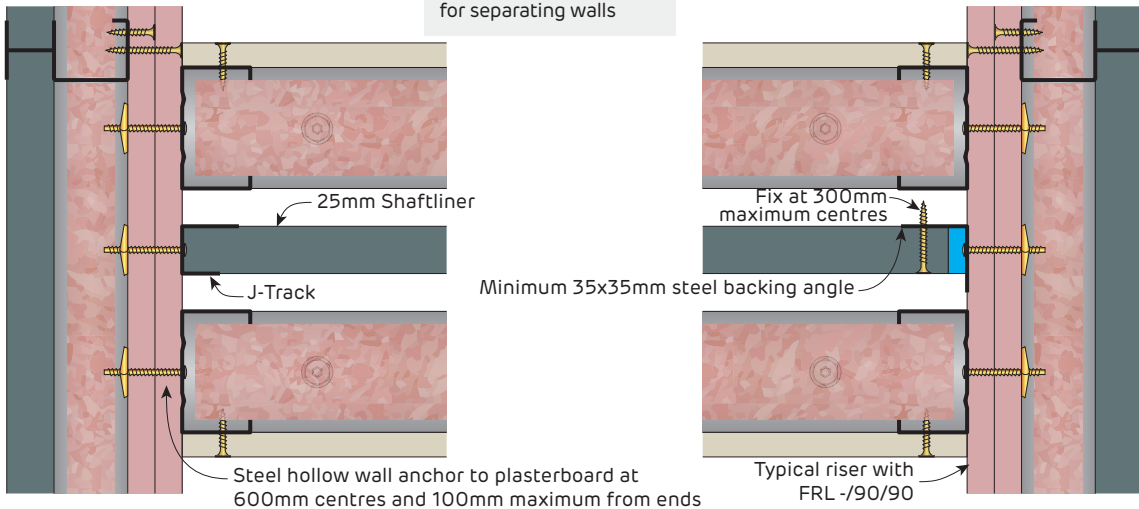
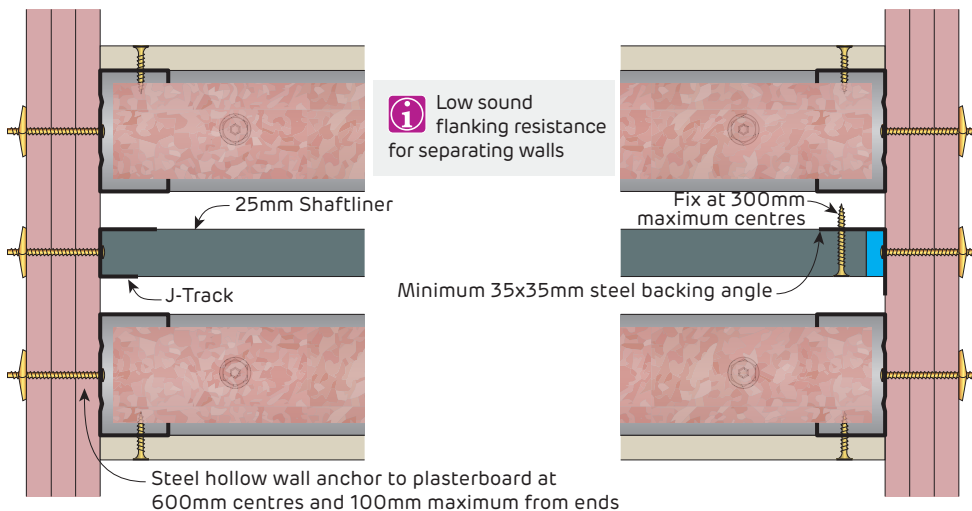


FIGURE 43 InterHome High-Rise Wall to Shaft Wall Plan

FIGURE 44 InterHome High-Rise Wall to Shaft Wall Plan



i Low sound flanking resistance for separating walls

FIGURE 45 InterHome High-Rise Wall to Laminated Vertical Duct Plan

FIGURE 46 InterHome High-Rise Wall to Laminated Vertical Duct Plan

Fire Rated

InterHome High-Rise Details - FRL -/60/60

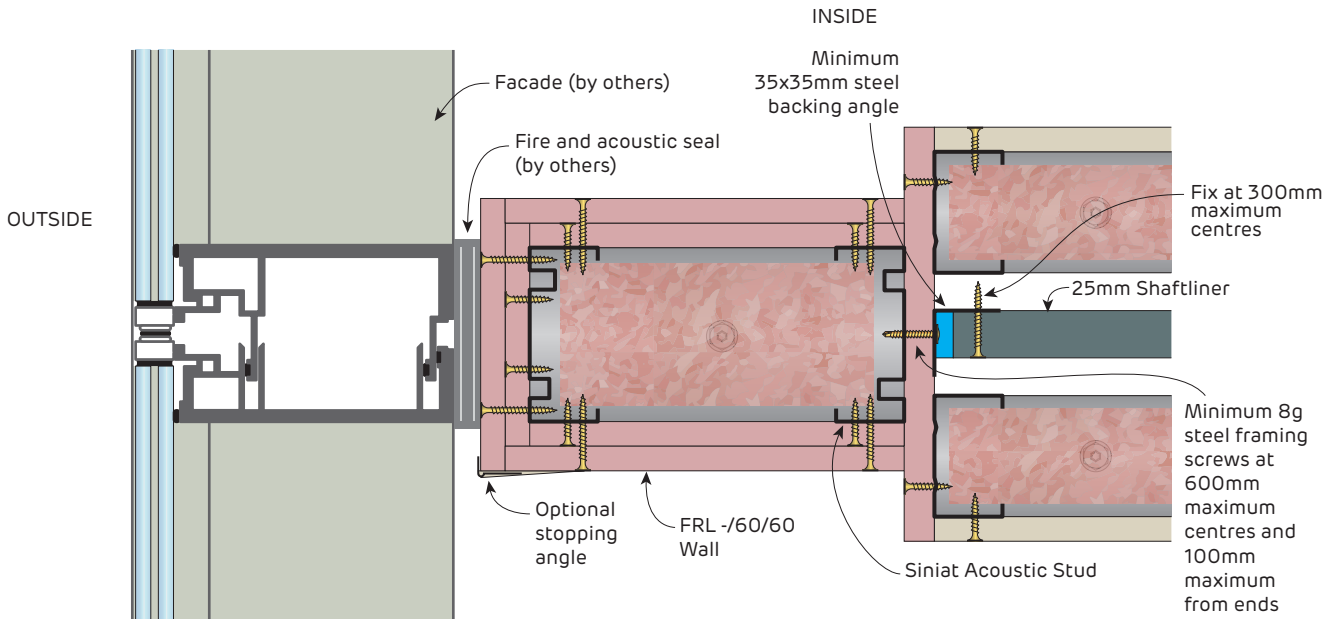


FIGURE 47 InterHome High-Rise Wall Transition to Curtain Wall Mullion
Plan

Consider project specific requirements before joining internal partition walls to facades

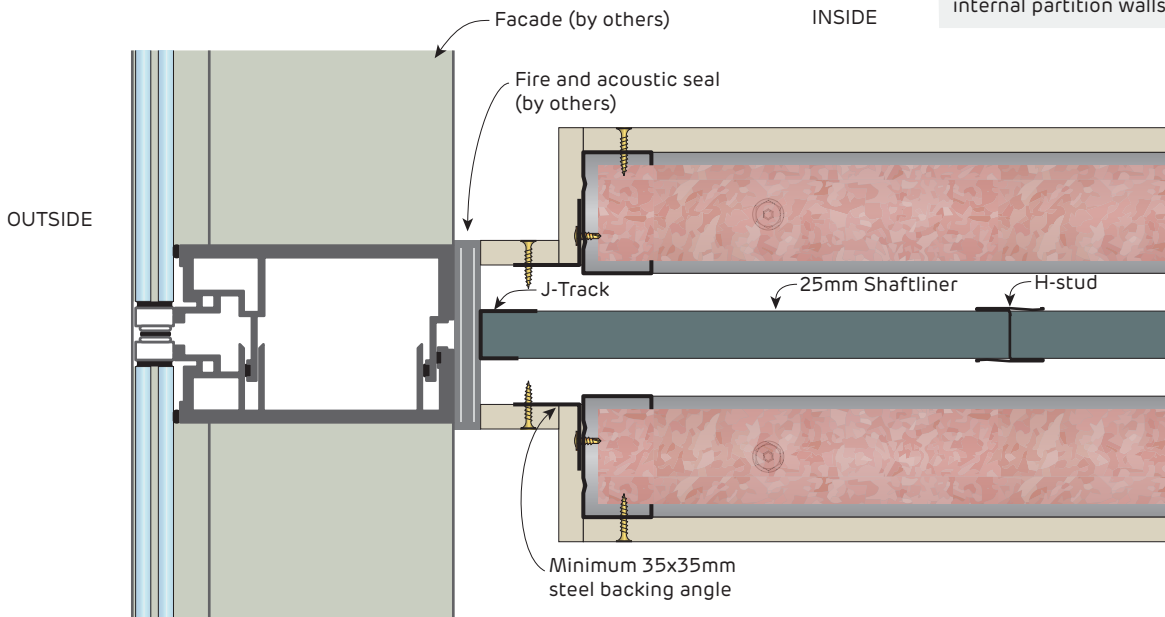


FIGURE 48 InterHome High-Rise Wall Transition to Curtain Wall Mullion
Plan



Fire Rated

InterHome High-Rise Penetration Details - FRL -/60/60

i Prevent contact between all services and the central fire barrier.

i Penetrations in wall linings can be back-to-back. Penetrations through the central fire barrier must be in accordance with an approved detail.

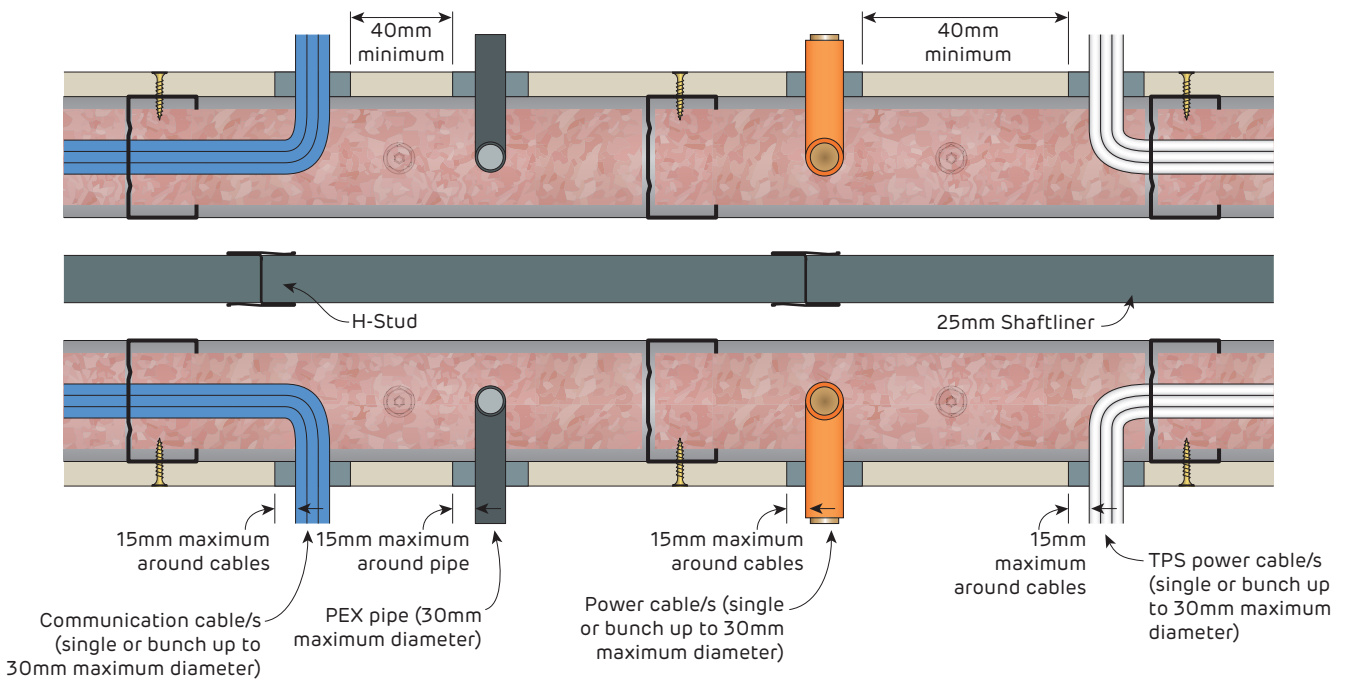
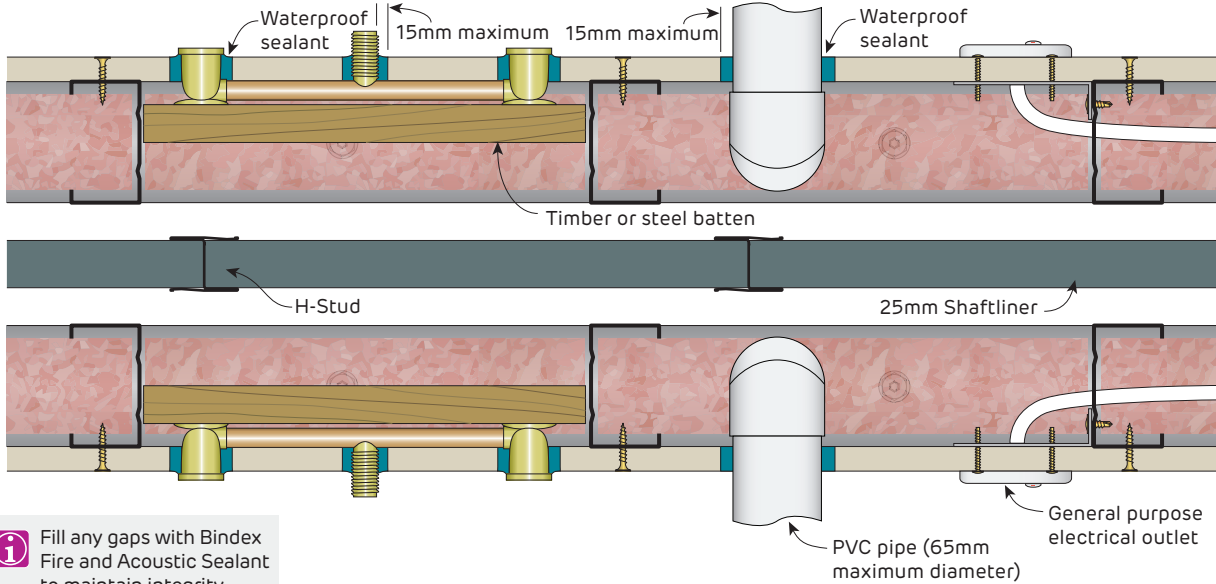


FIGURE 49 Plumbing and Electrical Penetrations in Wall Linings
Plan

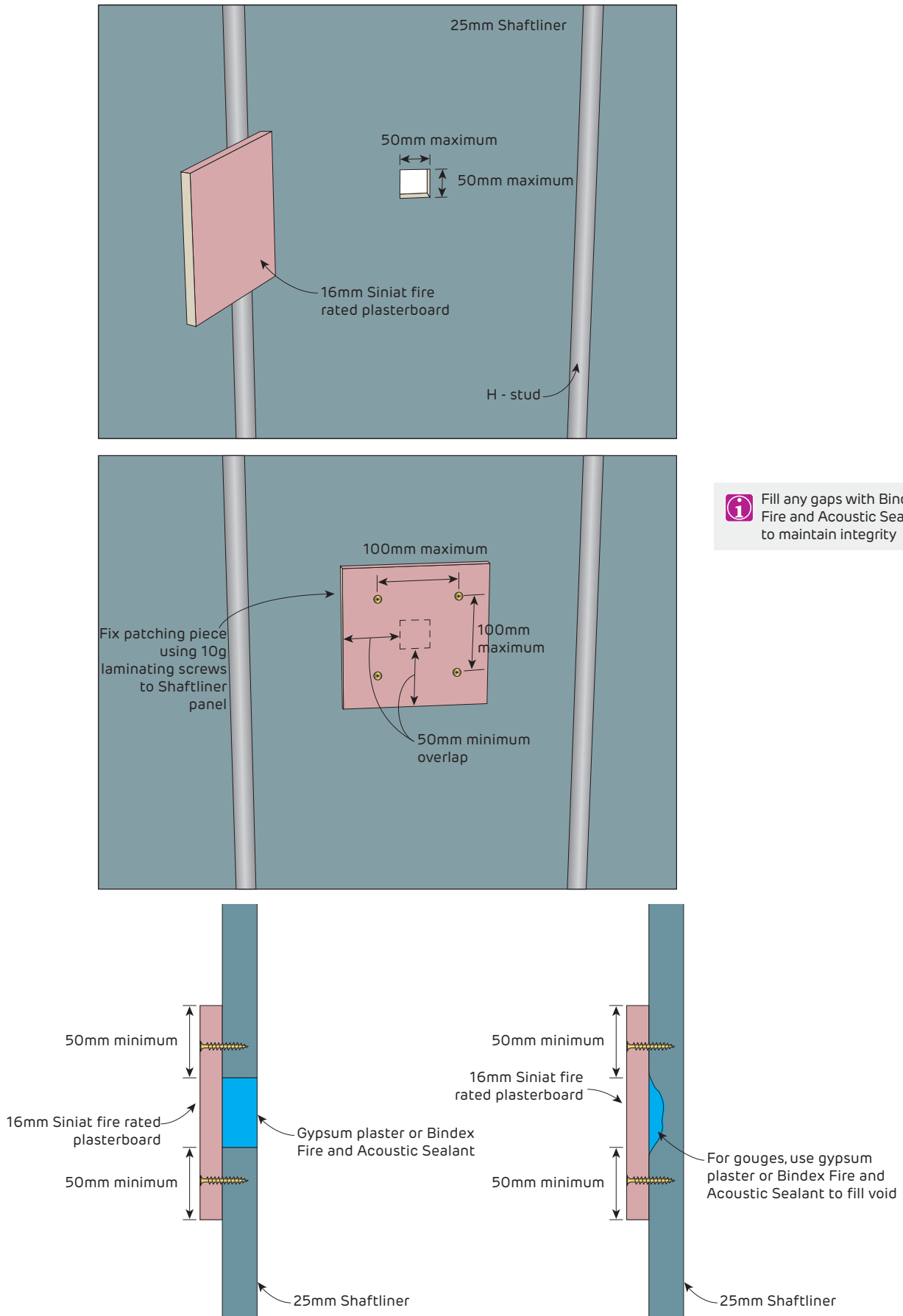
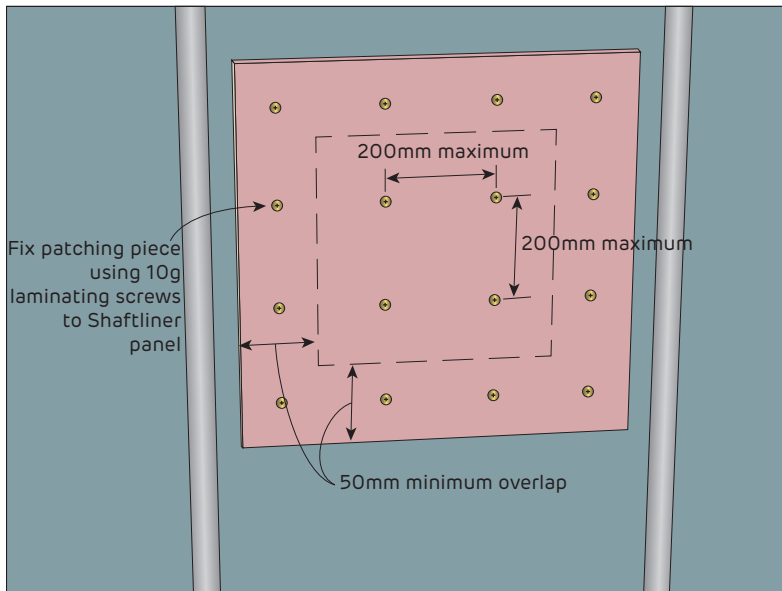
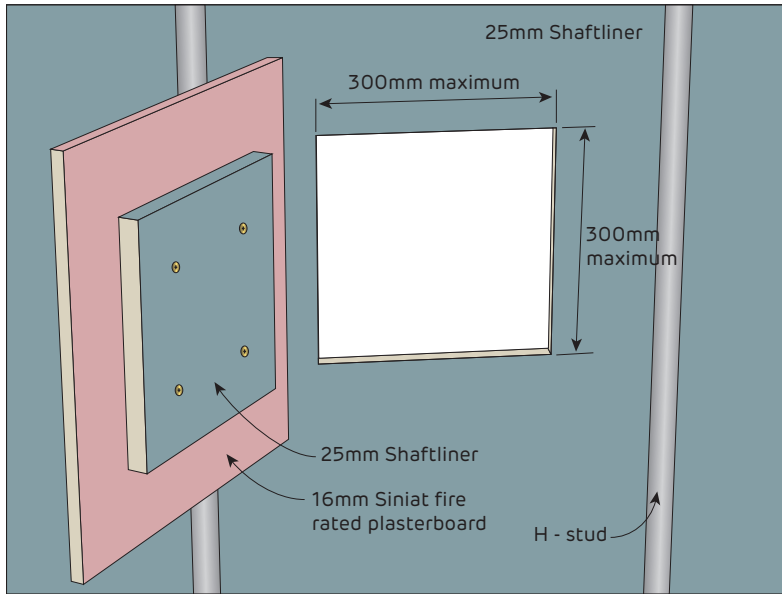
Fire Rated**Patching of Central Fire Barrier - 50 x 50mm maximum opening**

FIGURE 50 Fire Rated Patch for Shaftliner panel
Section - FRL -/60/60



Fire Rated

Patching of Central Fire Barrier - 300 x 300mm maximum opening



i Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

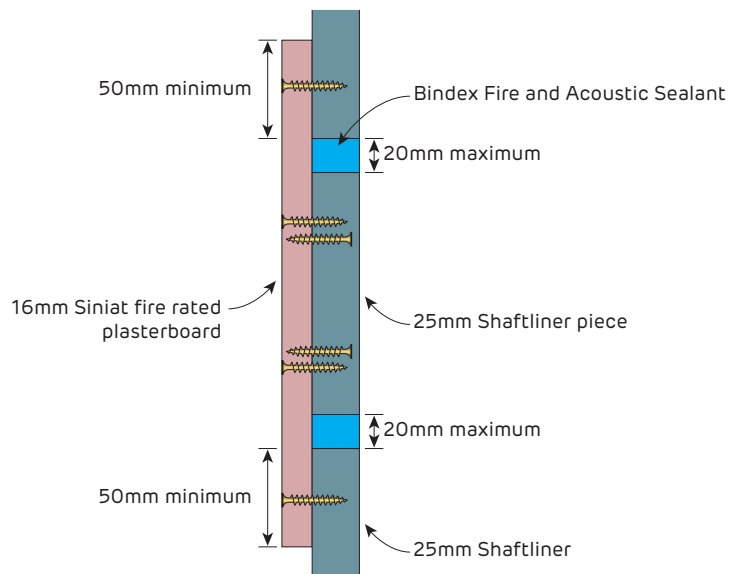
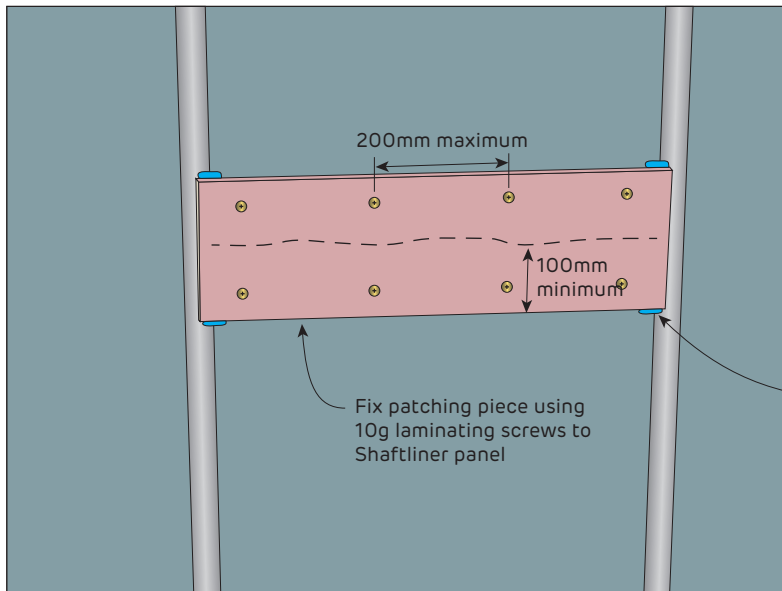
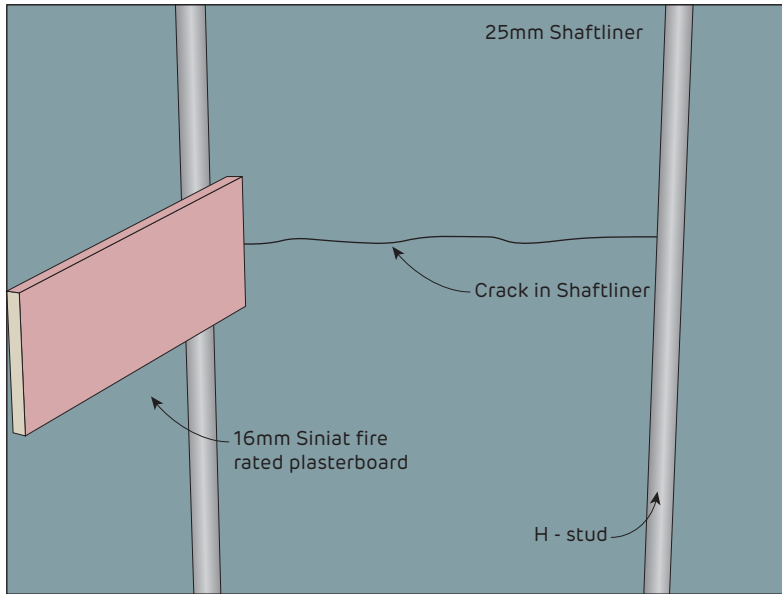


FIGURE 51 Fire Rated Patch for Shaftliner panel
Section - FRL -/60/60

Fire Rated
Patching of Central Fire Barrier - Crack in Shaftliner

i Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

Seal gap between H-Stud and patching piece with Bindex Fire and Acoustic Sealant

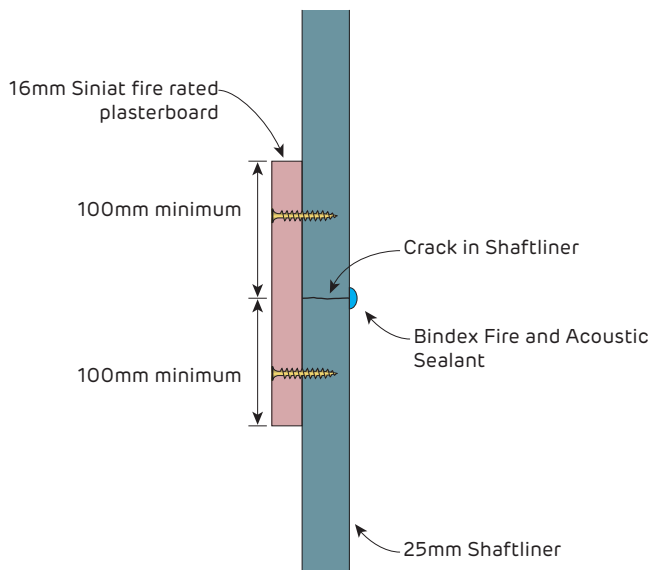


FIGURE 52 Fire Rated Patch for Shaftliner panel
Section - FRL -/60/60