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).

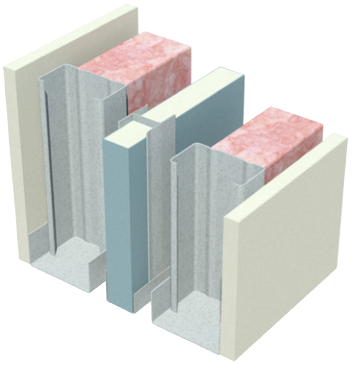
interhome high-rise systems consist of twin steel framed walls with a central fire barrier of 25mm **shaftl**iner or **inter**shield encased in steel **inter**home H-studs. 16mm **fire**shield laminated to the central fire barrier is required when the outer wall linings do not extend to the soffit. All details in this section are for non-load bearing walls only.

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 **inter**home 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



- 1 layer of 13mm **masta**shield
- Steel stud framing
- Minimum 20mm air gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs
- Minimum 20mm air gap
- Steel stud framing
- 1 layer of 13mm **masta**shield

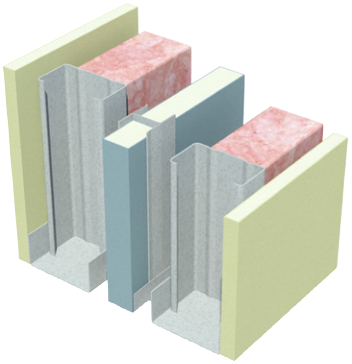
Fire Resistance Level

-/60/60
from either side

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/m³ in both cavities	Pink® Partition 90mm 14 kg/m³ 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



- 1 layer of 13mm **sound**shield or **impact**shield or **tru**rock
- Steel stud framing
- Minimum 20mm air gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs
- Minimum 20mm air gap
- Steel stud framing
- 1 layer of 13mm **sound**shield or **impact**shield or **tru**rock

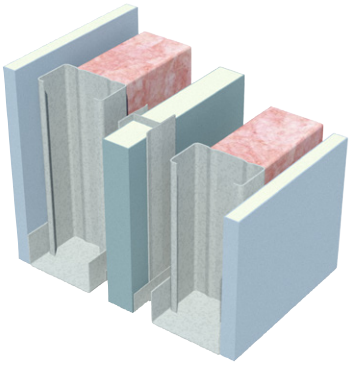
Fire Resistance Level

-/60/60
from either side

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/m³ 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



- 1 layer of 13mm **water**shield
- Steel stud framing
- Minimum 20mm air gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs
- Minimum 20mm air gap
- Steel stud framing
- 1 layer of 13mm **water**shield

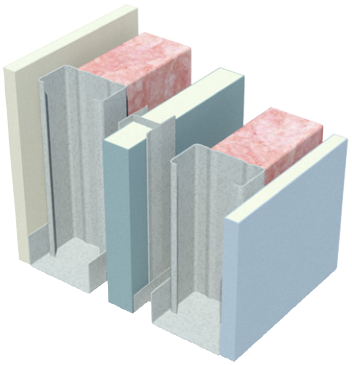
Fire Resistance Level

-/60/60
from either side

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/m³ 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



- 1 layer of 13mm **masta**shield
- Steel stud framing
- Minimum 20mm air gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs
- Minimum 20mm air gap
- Steel stud framing
- 1 layer of 13mm **water**shield

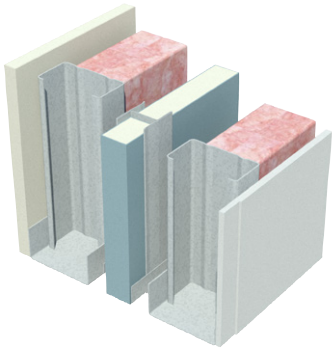
Fire Resistance Level

-/60/60
from either side

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/m³ in both cavities	Pink® Partition 90mm 14 kg/m³ 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



- 1 layer of 13mm **masta**shield
- Steel stud framing
- Minimum 20mm air gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs
- Minimum 20mm air gap
- Steel stud framing
- 1 layer of 6mm Duraliner

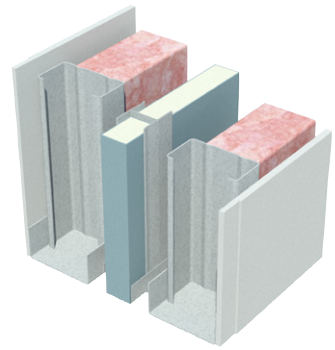
Fire Resistance Level

-/60/60
from either side

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 90mm 14 kg/m³ R2.2 in both cavities	Insul Prediction v8
110 (eg: 64 stud + 46 gap)	264	65 (**51**)	Note: Impact Sound Resistant - Discontinuous Construction

IHS150



- 1 layer of 6mm Duraliner
- Steel stud framing
- Minimum 20mm air gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs
- Minimum 20mm air gap
- Steel stud framing
- 1 layer of 6mm Duraliner

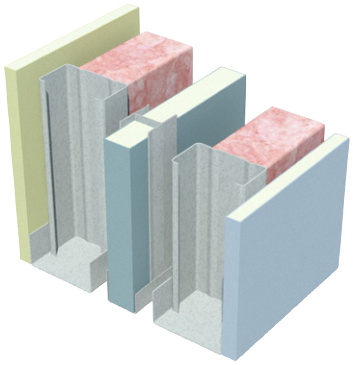
Fire Resistance Level

-/60/60
from either side

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 90mm 14 kg/m³ R2.2 in both cavities	Insul Prediction v8
110 (eg: 64 stud + 46 gap)	257	65 (**51**)	Note: Impact Sound Resistant - Discontinuous Construction

IHS156



- 1 layer of 13mm **sound**shield
- Steel stud framing
- Minimum 20mm air gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs
- Minimum 20mm air gap
- Steel stud framing
- 1 layer of 13mm **water**shield

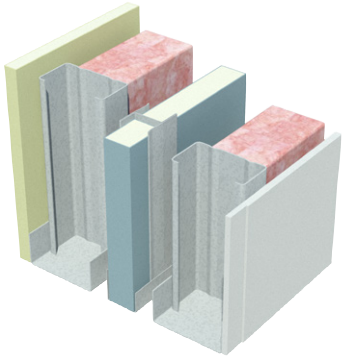
Fire Resistance Level

-/60/60
from either side

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/m³ R1.8 in both cavities	Day Design 5008-48
84 (eg: 64 stud + 20 gap)	219	66 (**52**)	Note: Impact Sound Resistant - Discontinuous Construction
96 (eg: 76 stud + 20 gap)	243	66 (**52**)	
110	271	67 (**53**)	

IHS154



- 1 layer of 13mm **sound**shield or **impact**shield or **tru**rock
- Steel stud framing
- Minimum 20mm air gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs
- Minimum 20mm air gap
- Steel stud framing
- 1 layer of 6mm Duraliner

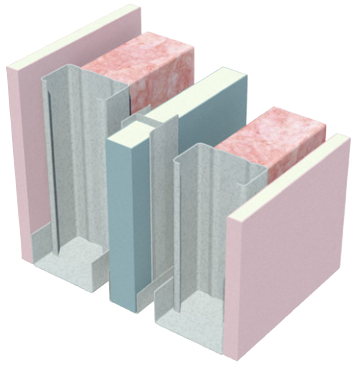
Fire Resistance Level

-/60/60
from either side

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/m³ R1.8 in both cavities	Day Design 5008-48
84 (eg: 64 stud + 20 gap)	212	66 (**52**)	Note: Impact Sound Resistant - Discontinuous Construction
96 (eg: 76 stud + 20 gap)	236	66 (**52**)	
110	264	67 (**53**)	

IHS130



- 1 layer of 13mm **fire**shield or **multi**shield or **impact**shield
- Steel stud framing
- Minimum 20mm air gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs
- Minimum 20mm air gap
- Steel stud framing
- 1 layer of 13mm **fire**shield or **multi**shield or **impact**shield

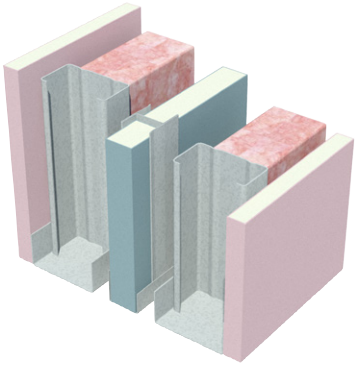
Fire Resistance Level

-/60/60
from either side

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/m³ R1.8 in both cavities	Day Design 5008-18
71 (eg: 51 stud + 20 gap)	193	64 (**50**)	[2]CSIRO TL601-02
84 (eg: 64 stud + 20 gap)	219	66 (**52**) [2]	Note: Impact Sound Resistant - Discontinuous Construction
110 (eg: 64 stud + 46 gap)	271	67 (**53**)	

IHS135



- 1 layer of 16mm **fire**shield or **multi**shield
- Steel stud framing
- Minimum 20mm air gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs
- Minimum 20mm air gap
- Steel stud framing
- 1 layer of 16mm **fire**shield or **multi**shield

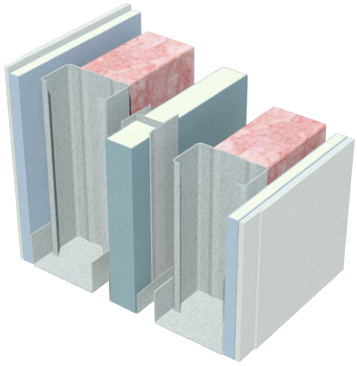
Fire Resistance Level

-/60/60
from either side

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/m³ R1.8 in both cavities	Day Design 5008-18
71 (eg: 51 stud + 20 gap)	199	64 (**51**)	Note: Impact Sound Resistant - Discontinuous Construction
84 (eg: 64 stud + 20 gap)	225	66 (**53**)	
110 (eg: 64 stud + 46 gap)	277	67 (**54**)	

IHS151



- 1 layer of 10mm **water**shield + 1 layer of 6mm Duraliner
- Steel stud framing
- Minimum 20mm air gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs
- Minimum 20mm air gap
- Steel stud framing
- 1 layer of 10mm **water**shield + 1 layer of 6mm Duraliner

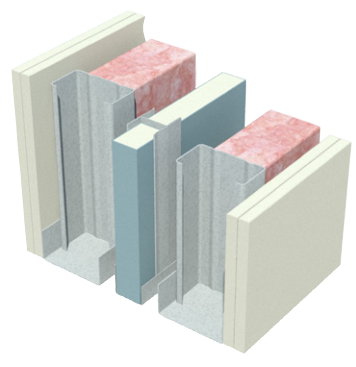
Fire Resistance Level

-/60/60
from either side

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/m³ R1.8 in both cavities	Day Design 5008-18
71 (eg: 51 stud + 20 gap)	199	65 (**52**)	Note: Impact Sound Resistant - Discontinuous Construction
84 (eg: 64 stud + 20 gap)	225	67 (**54**)	
110 (eg: 64 stud + 46 gap)	277	68 (**55**)	

IHS112



- 2 layers of 10mm **masta**shield or **water**shield
- Steel stud framing
- Minimum 20mm air gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs
- Minimum 20mm air gap
- Steel stud framing
- 2 layers of 10mm **masta**shield or **water**shield

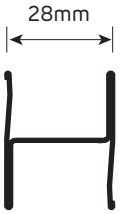
Fire Resistance Level

-/60/60
from either side

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/m³ R1.8 in both cavities	Day Design 5008-18
71 (eg: 51 stud + 20 gap)	207	64 (**51**)	Note: Impact Sound Resistant - Discontinuous Construction
84 (eg: 64 stud + 20 gap)	233	66 (**53**)	
110 (eg: 64 stud + 46 gap)	285	67 (**54**)	

Components

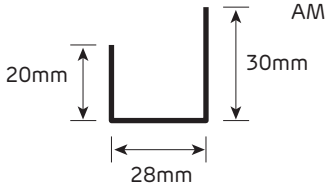


0.55mm BMT
G300
AM150 Zincalume® steel

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

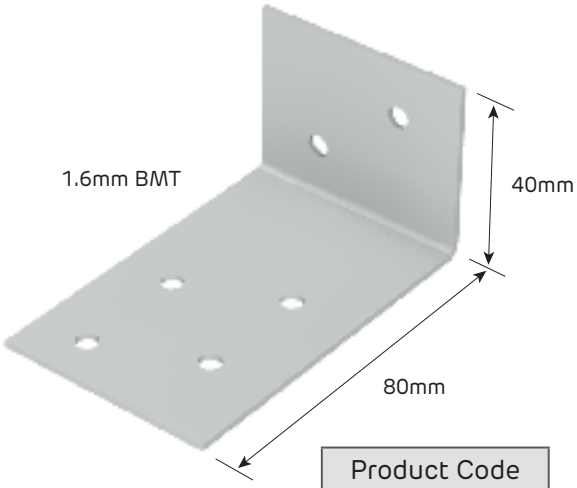
FIGURE 1 interhome H-stud
Profile



0.5mm BMT
G300
AM150 Zincalume® steel

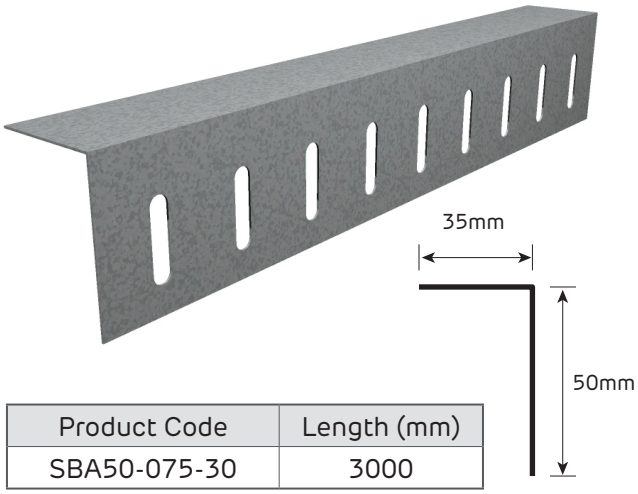
Product Code	Length (mm)
T28-30	3000

FIGURE 2 J-Track
Profile



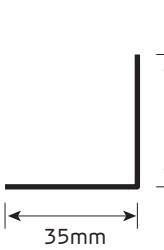
Product Code
CIH-L

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



0.7mm BMT
G300
AM150 Zincalume® steel

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 **shaft**liner
- Siniat 25mm **inter**shield

Wall Linings

- Siniat **masta**shield
- Siniat **sound**shield
- Siniat **water**shield
- Siniat **fire**shield
- Siniat **multi**shield
- Siniat **tru**rock
- Innova Duraliner

General Requirements

Use either **shaft**liner, or for added mould protection **inter**shield 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 **inter**home aluminium clips (CIH-L) are required, they are to connect **inter**home 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 **fire**shield laminated to the **shaft**liner.
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 **inter**home high-rise 90 Minute Supplement for non-load bearing FRL -/90/90 walls.

> Refer to the **inter**home 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 **inter**home 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 **fire**shield is laminated to the 25mm **shaft**liner which also provides an FRL of -/60/60. The 16mm **fire**shield must overlap a minimum of 150mm below the ceiling [refer to construction details].
The outer wall lining and cavity insulation of any **inter**home 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 **inter**home high-rise wall of at least Rw + Ctr 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 **inter**home high-rise system is used on one side of a different **inter**home 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 **inter**home H-studs with 3m **shaft**liner panels and 3.6m **inter**home H-studs with 3.6m **shaft**liner panels. Use **inter**home aluminium clips as shown in Figure 16 for walls higher than the H-stud length and 7.2m.

Siniat Internal Wind Load Calculator

Table 1 Screw Type and Minimum Size for Steel Framing

Fixing Aluminium Clips	**Fastener**
interhome aluminium clips to steel **inter**home H-studs	8g x 16mm fine thread screw
interhome aluminium clips to steel **inter**home H-studs through 16mm **fire**shield	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 **inter**shield are friction fitted into the **inter**home 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 ≤ 0.75mm BMT, use fine thread needle point screws.
2. For steel ≥ 0.75mm BMT, use fine thread drill point screws.
3. 10g x 38mm Laminating screws may be used as detailed in installation diagrams.

Installation Sequence

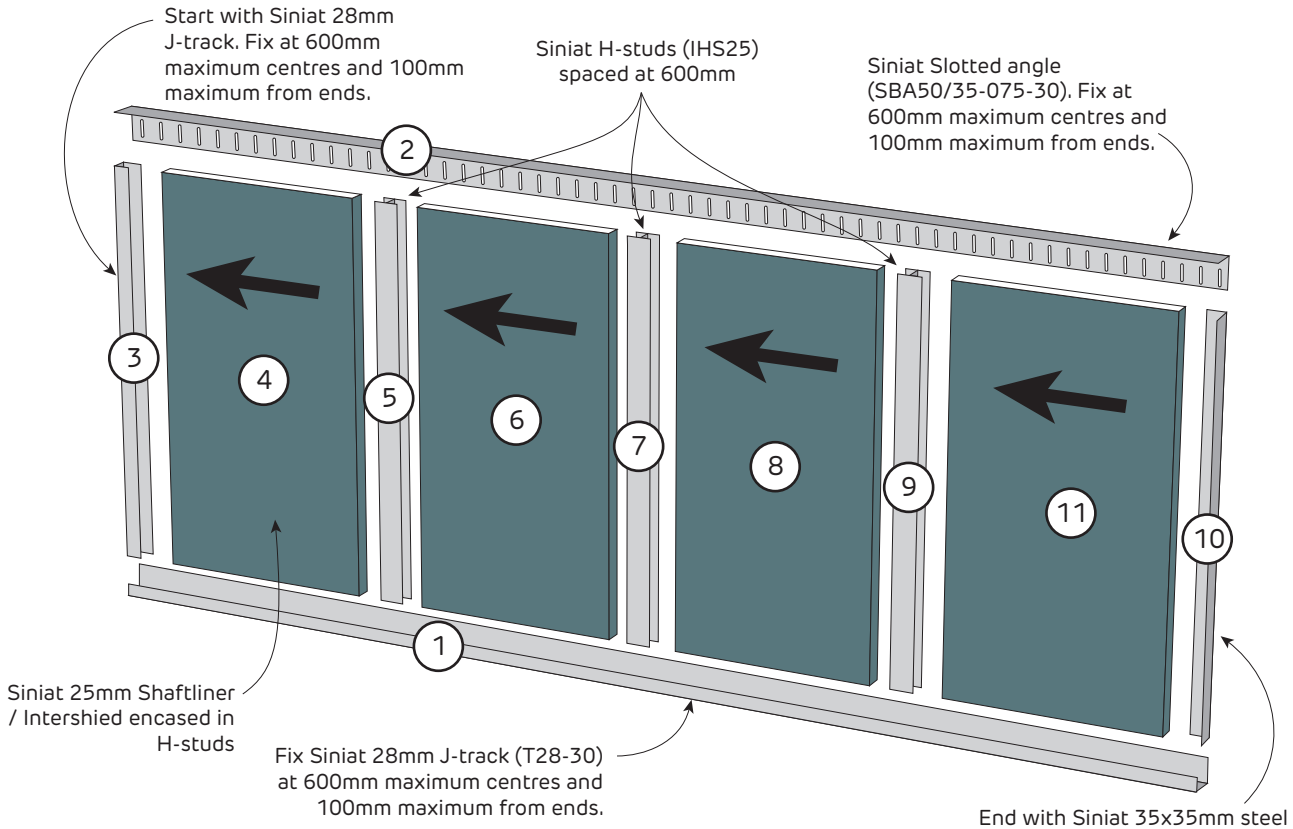


FIGURE 6 Shaftliner Construction Sequence
Perspective

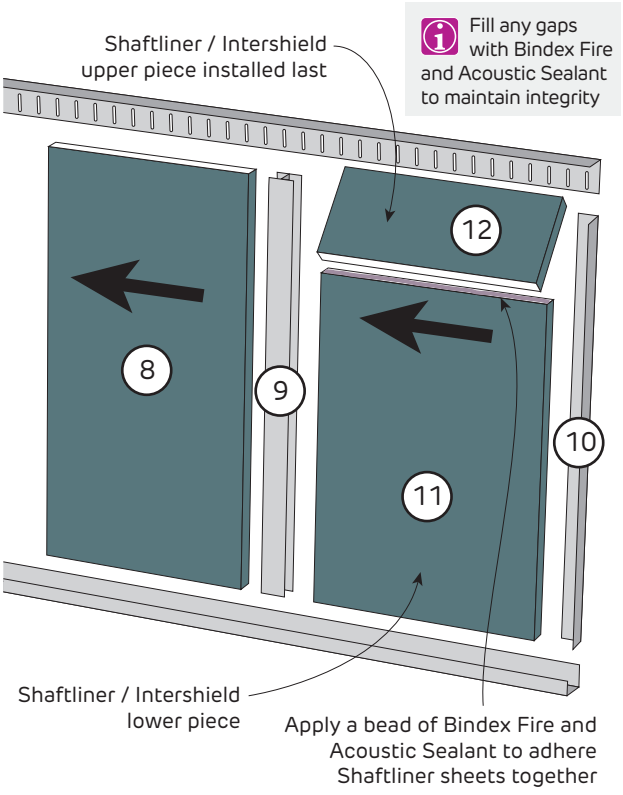


FIGURE 7 Alternative Shaftliner End Construction
Step 1 - Perspective

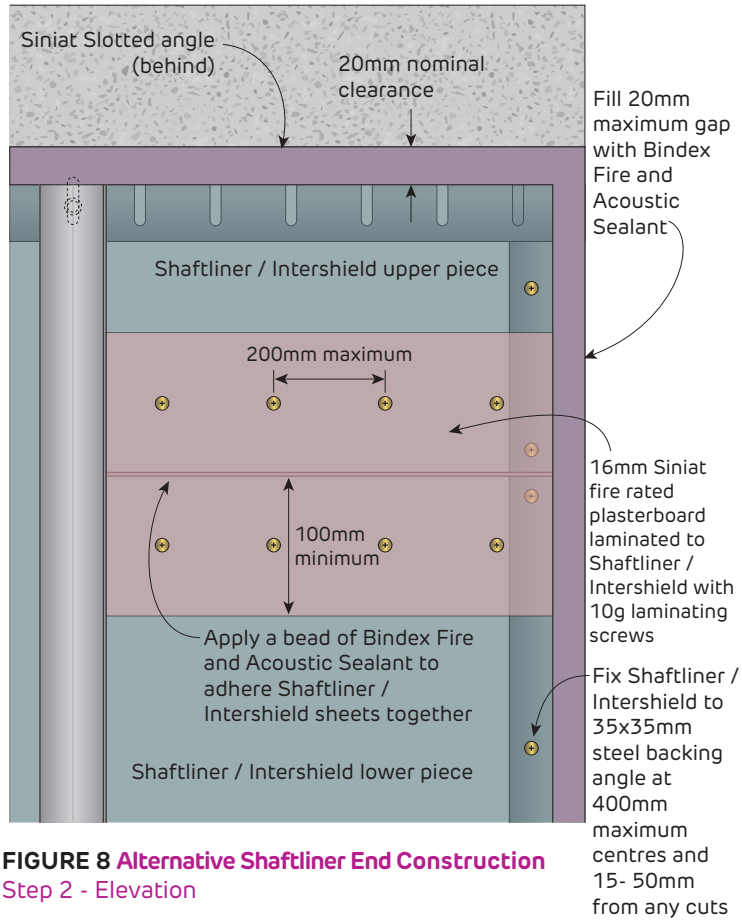


FIGURE 8 Alternative Shaftliner End Construction
Step 2 - Elevation

Fire Rated
InterHome High-Rise Central Fire Barrier Installation

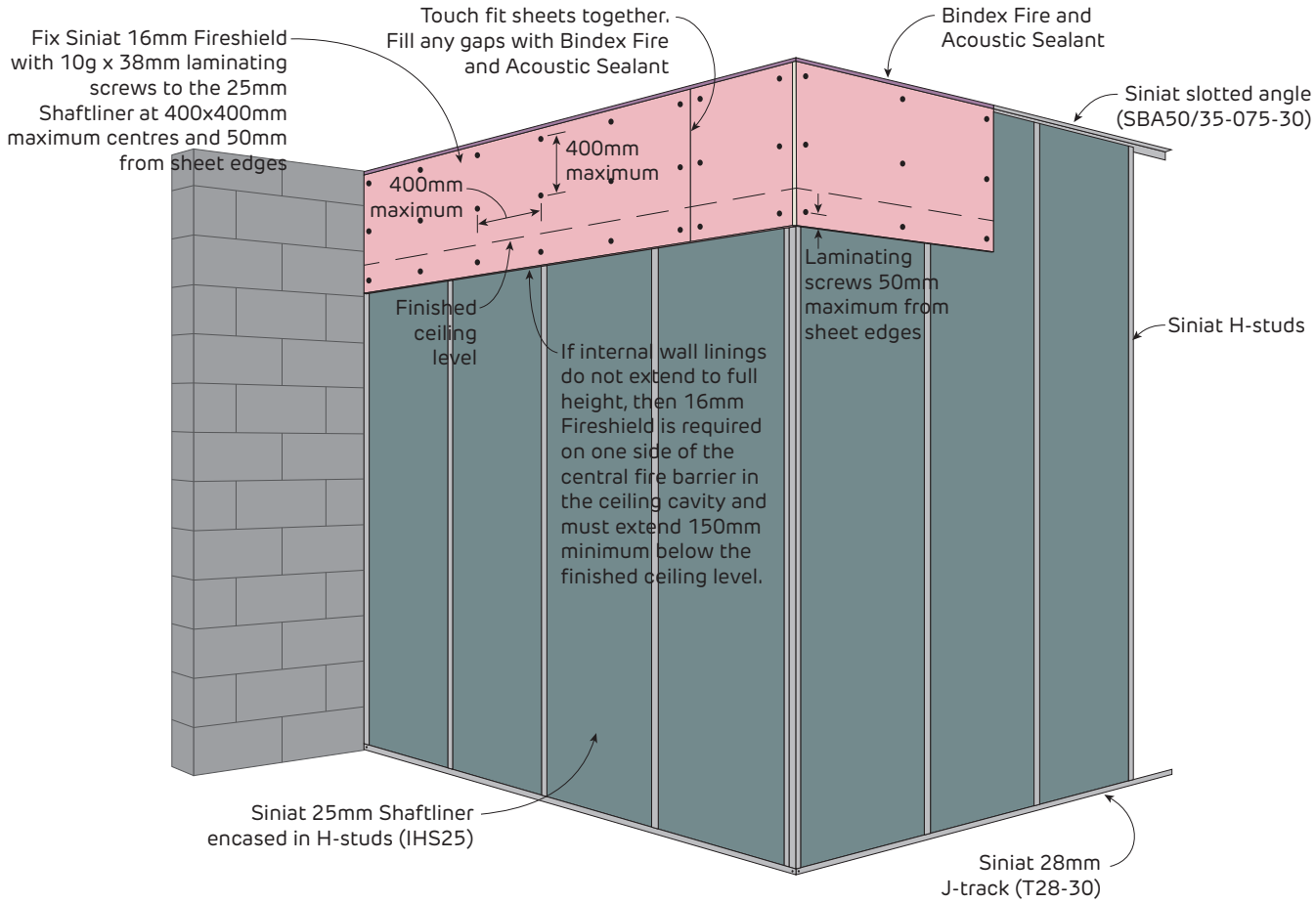


FIGURE 9 Central Fire Barrier
Perspective

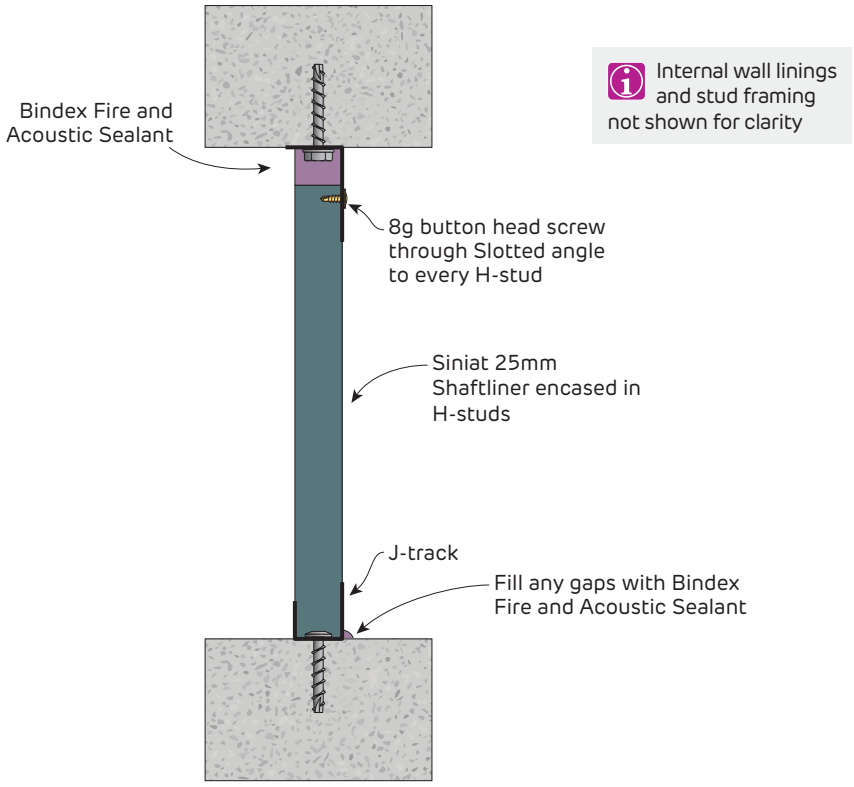


FIGURE 10 Central Fire Barrier
Section

Fire Rated
Interhome High-Rise Head and Base Detail - FRL -/60/60 - Wall Height ≤ 3.6m

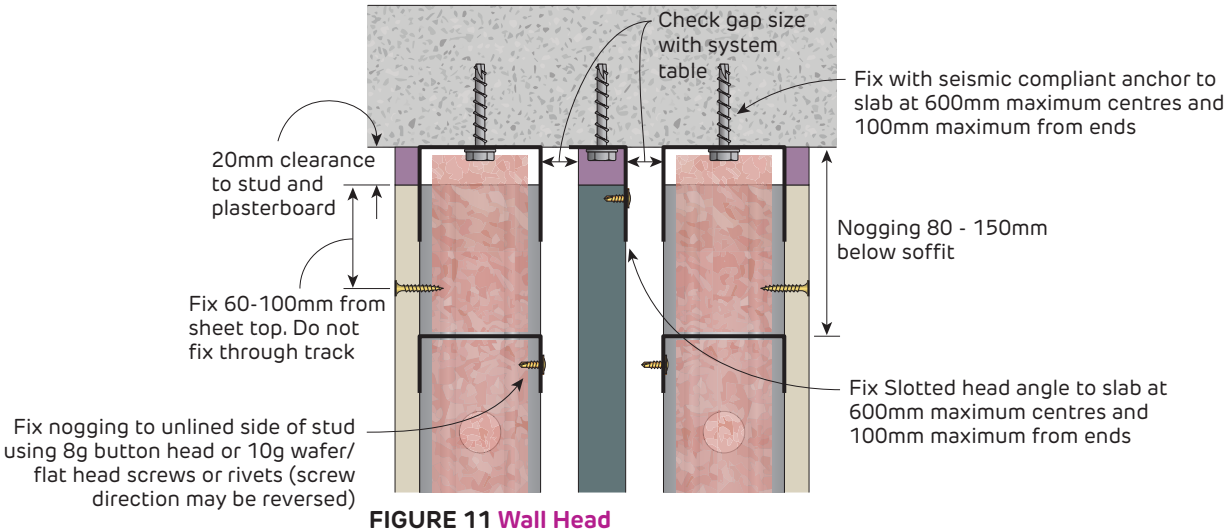
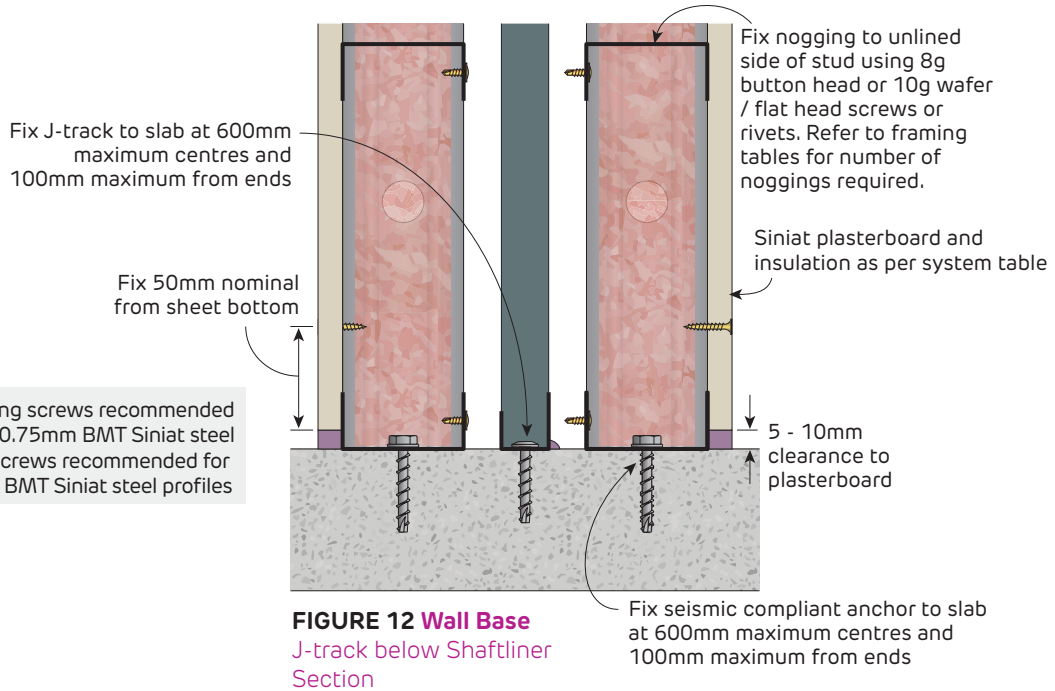


FIGURE 11 Wall Head
Slotted Steel Angle above Shaftliner Section

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

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



8g framing screws recommended for 0.3 - 0.75mm BMT Siniat steel profiles.10g screws recommended for 1.15 - 1.5mm BMT Siniat steel profiles

FIGURE 12 Wall Base
J-track below Shaftliner Section

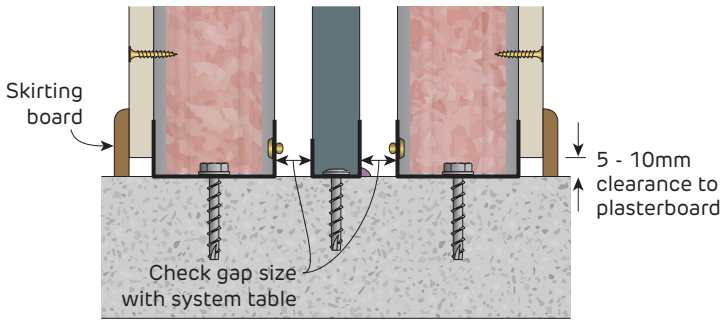


FIGURE 13 Alternative Wall Base using Rivets
J-track below Shaftliner Section

Fire Rated

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

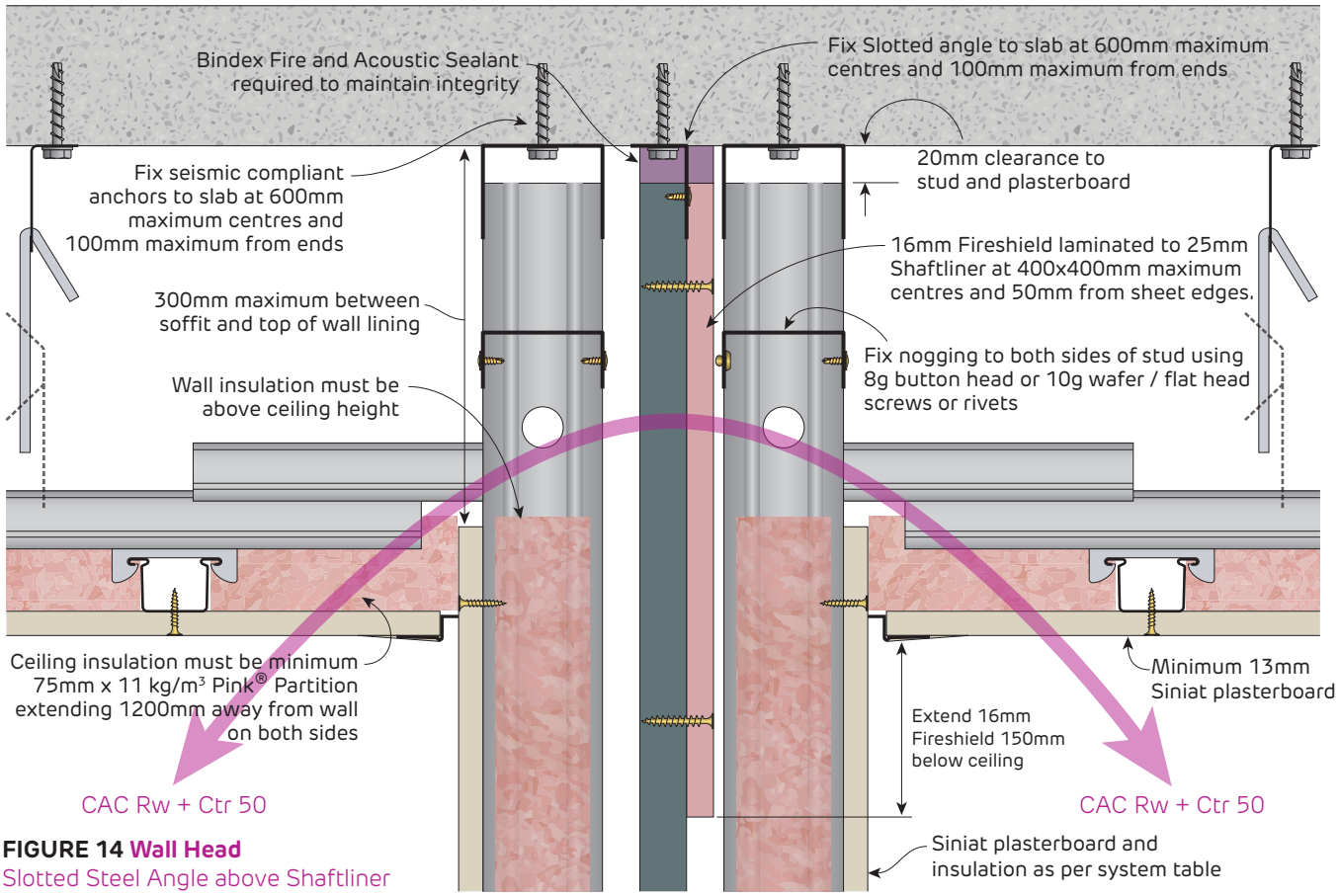


FIGURE 14 Wall Head
Slotted Steel Angle above Shaftliner Section

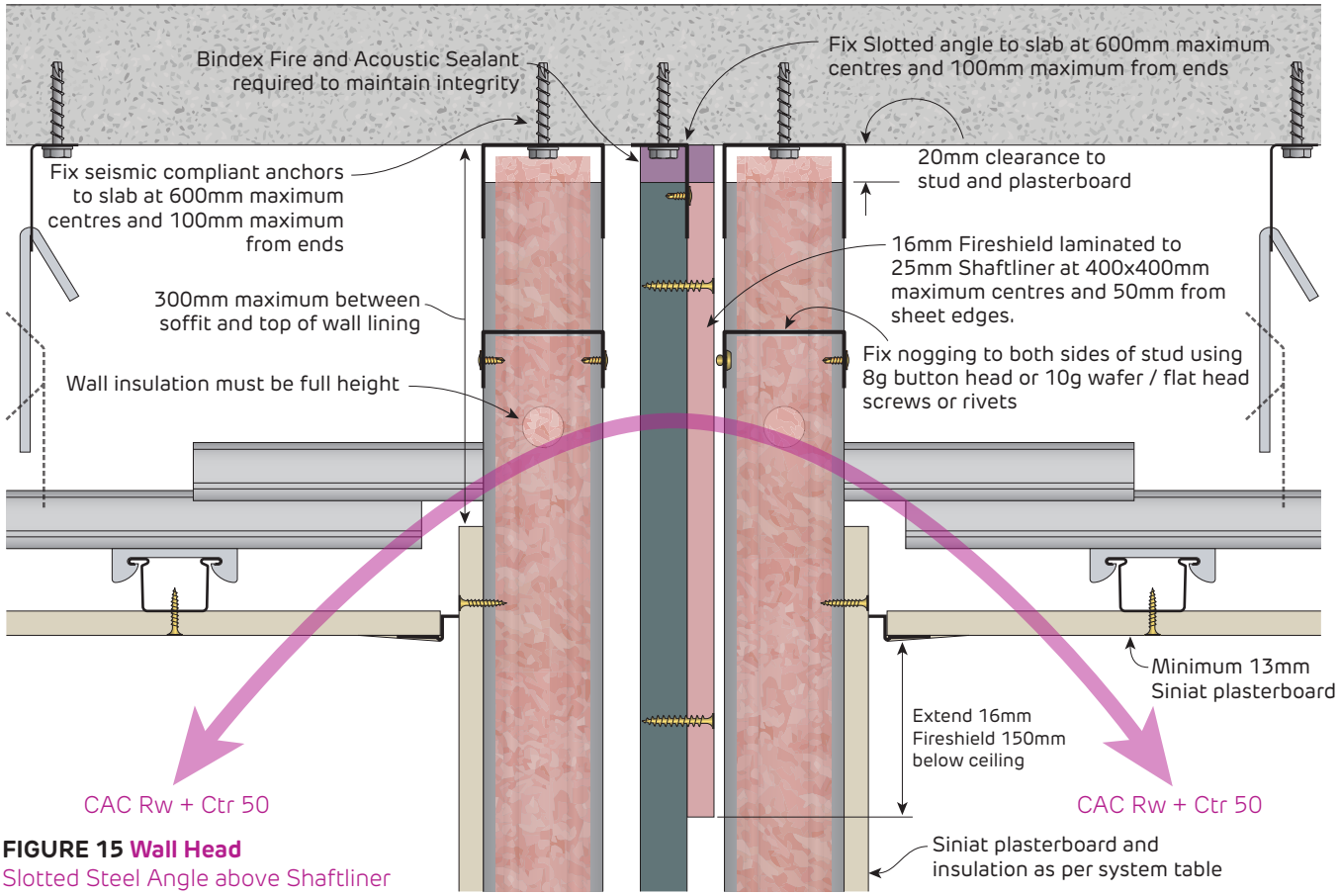


FIGURE 15 Wall Head
Slotted Steel Angle above Shaftliner Section

Fire Rated

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

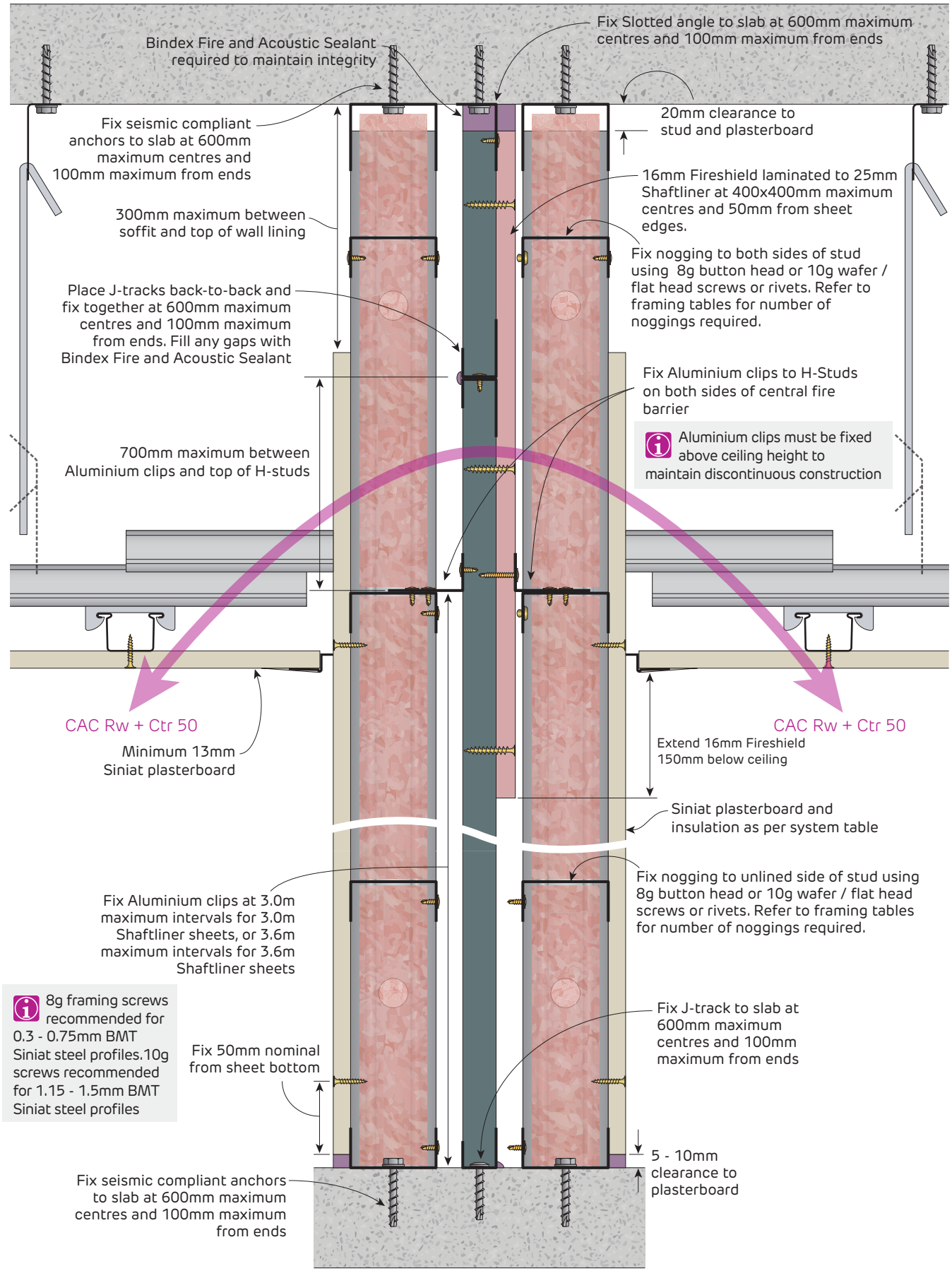


FIGURE 16 Walls above 3.0m/3.6m (H-stud length) to 7.2m
Slotted Steel Angle above Shaftliner
Section

Fire Rated

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

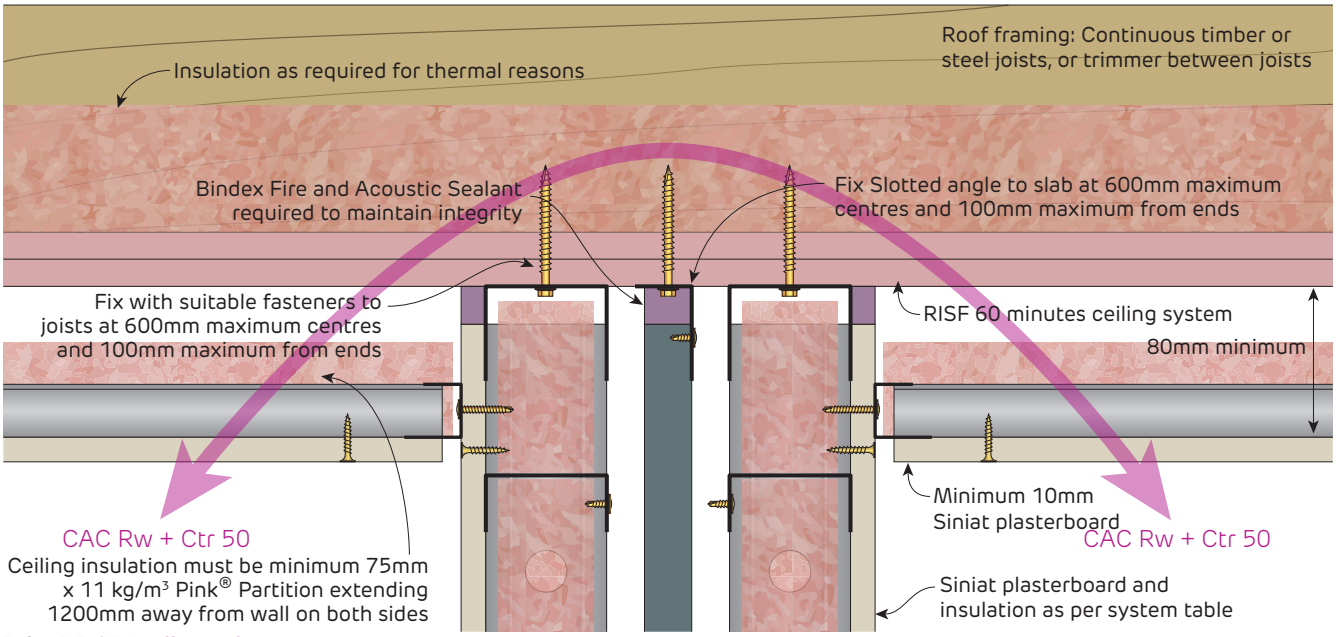


FIGURE 17 Wall Head
Slotted Steel Angle above Shaftliner Section

Fire Rated
Interhome High-Rise Details - FRL -/60/60

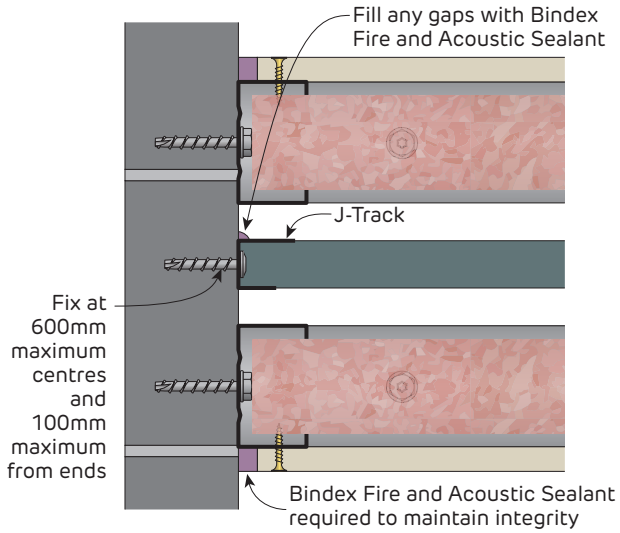


FIGURE 18 Wall End to Masonry J-track
Plan

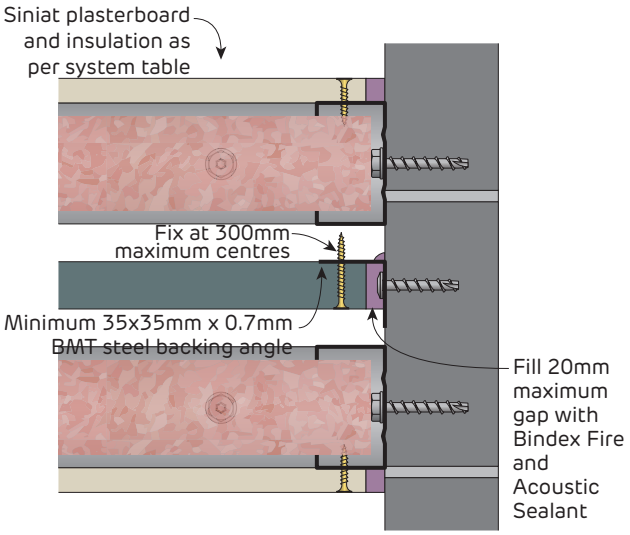


FIGURE 19 Wall End to Masonry Steel angle
Plan

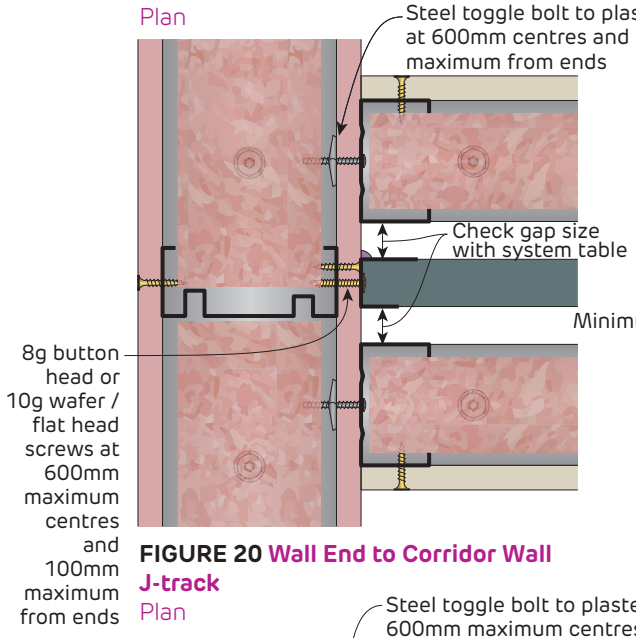


FIGURE 20 Wall End to Corridor Wall J-track
Plan

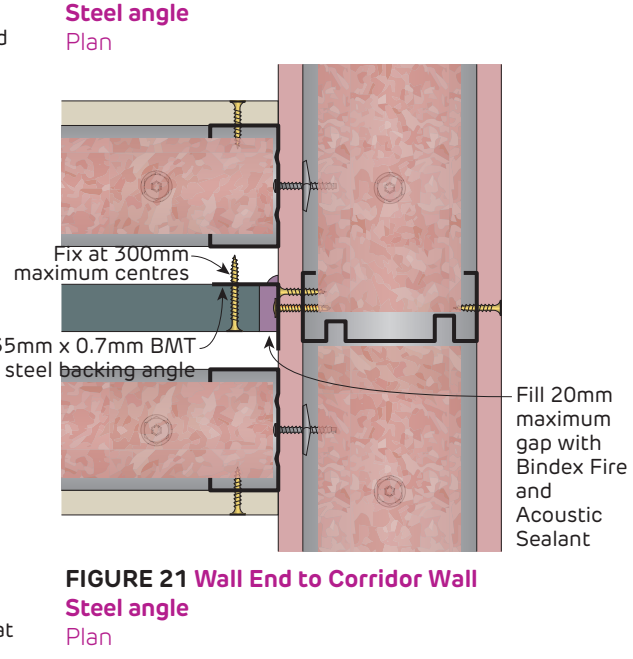


FIGURE 21 Wall End to Corridor Wall Steel angle
Plan

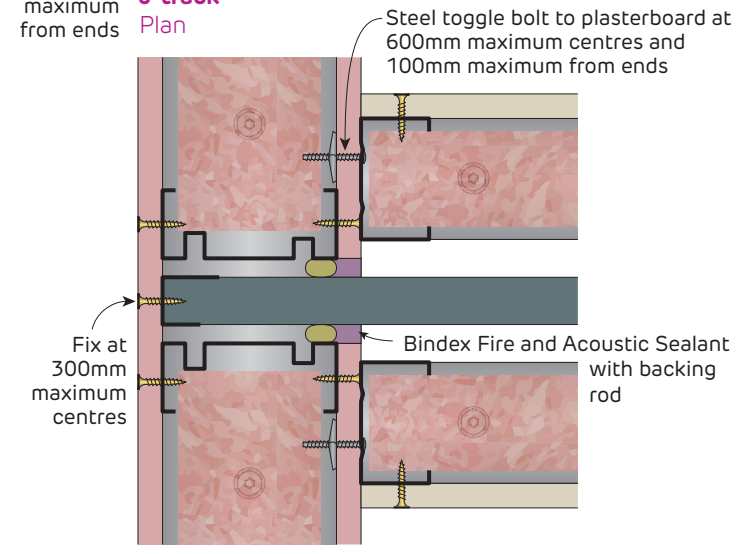


FIGURE 22 Wall End to Corridor Wall Improved Acoustic Detail - J-track
Plan

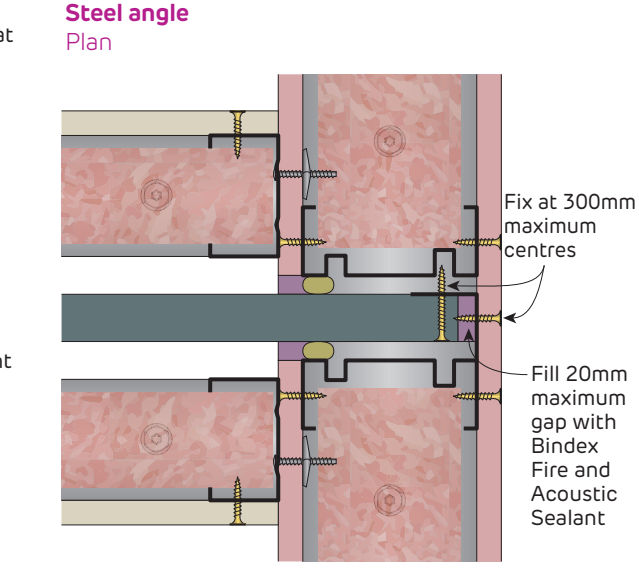


FIGURE 23 Wall End to Corridor Wall Improved Acoustic Detail - Steel angle
Plan

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

Fire Rated

Interhome High-Rise Details - FRL -/60/60

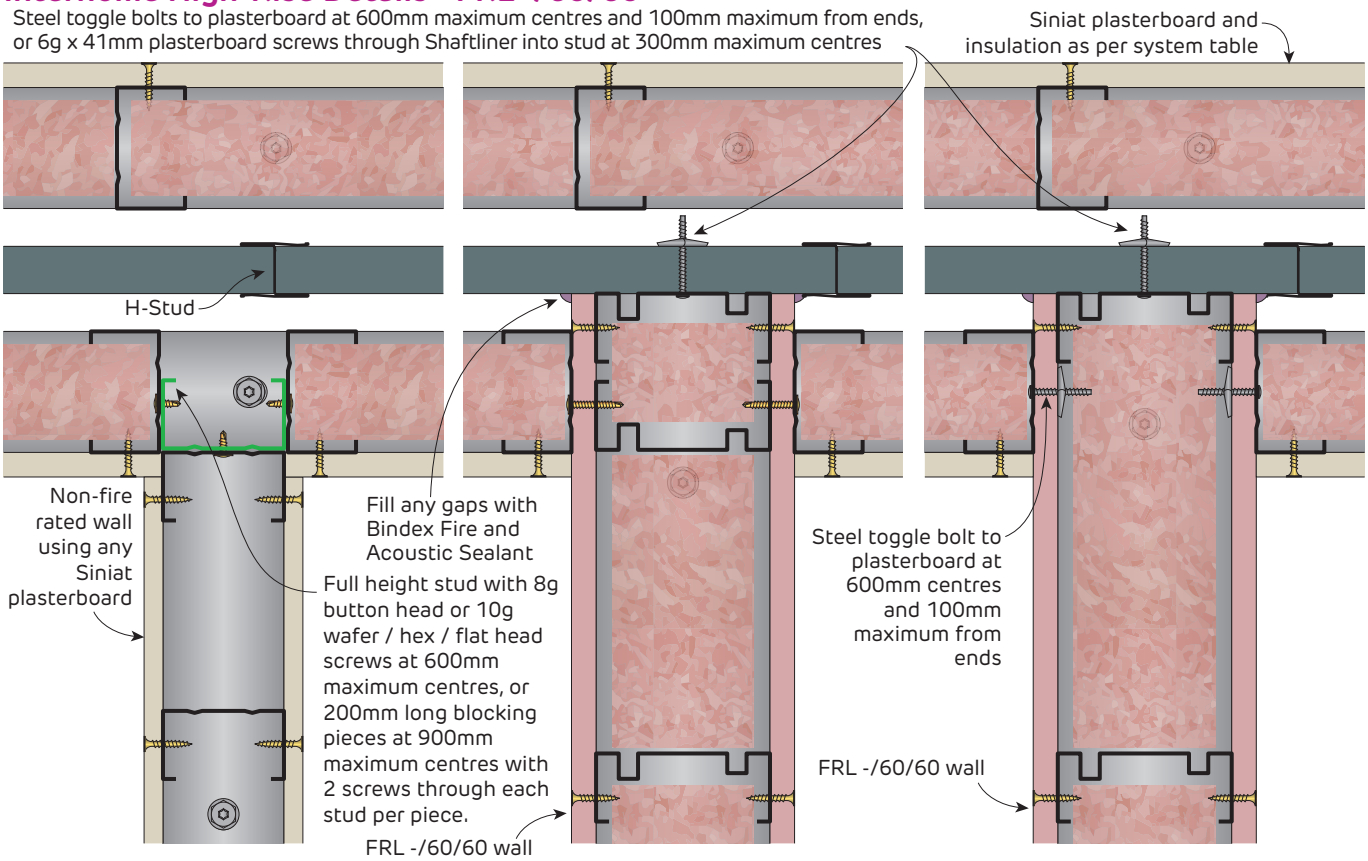


FIGURE 24 Wall Intersection with Non-Fire Rated Wall
Plan

FIGURE 25 Wall Intersection with Fire Rated Wall
Plan

FIGURE 26 Wall Intersection with Fire Rated Wall
Plan

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

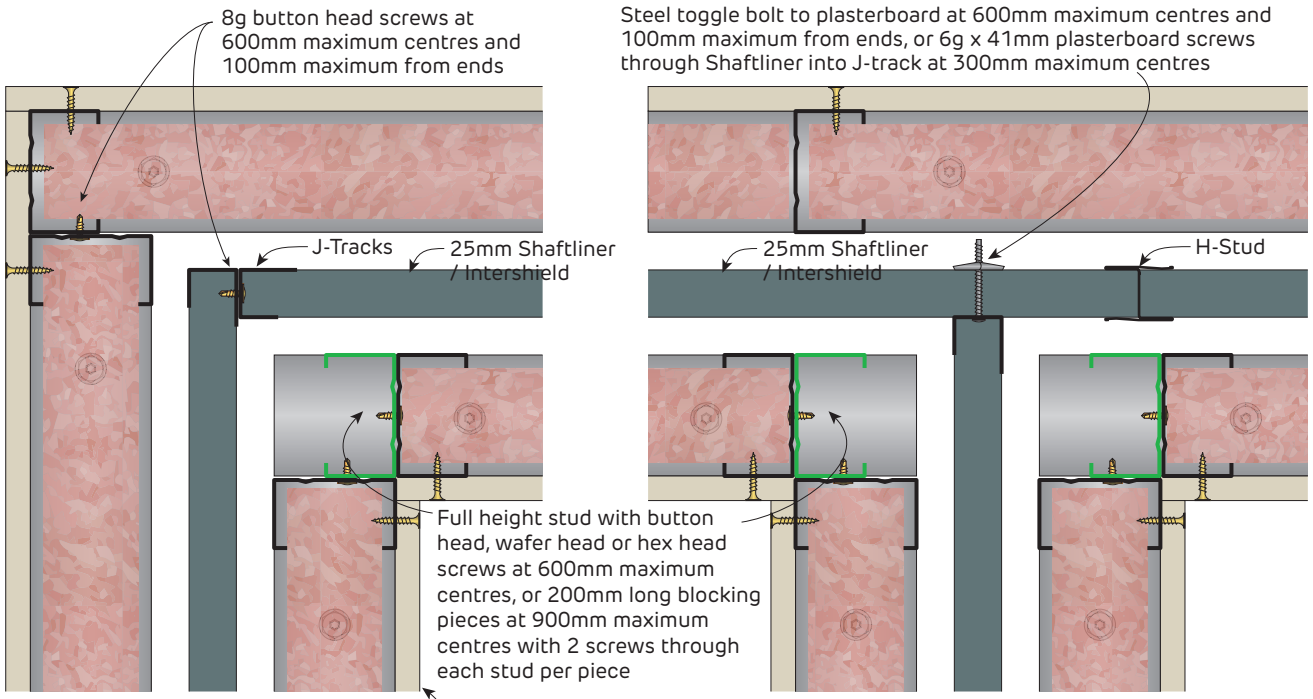


FIGURE 27 Wall Corner
Plan

FIGURE 28 Corridor Wall to Inter-tenancy Wall Junction
Plan

Fire Rated
Interhome High-Rise Details - FRL -/60/60

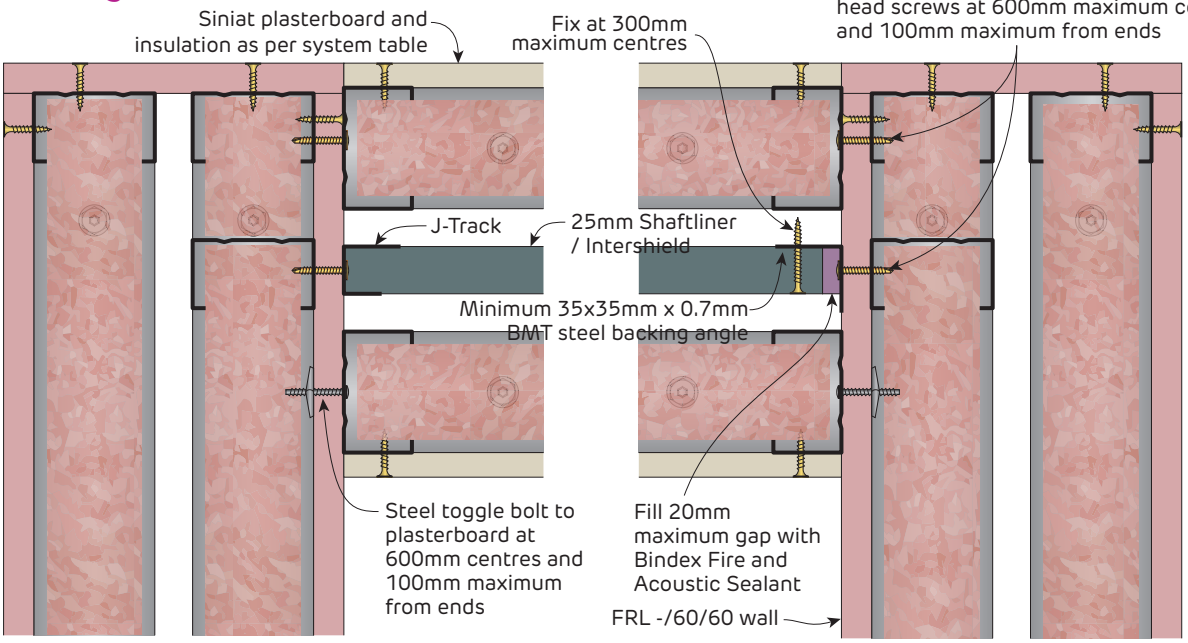


FIGURE 29 Interhome High-Rise Wall Connection to Fire Rated Plasterboard Wall
Plan

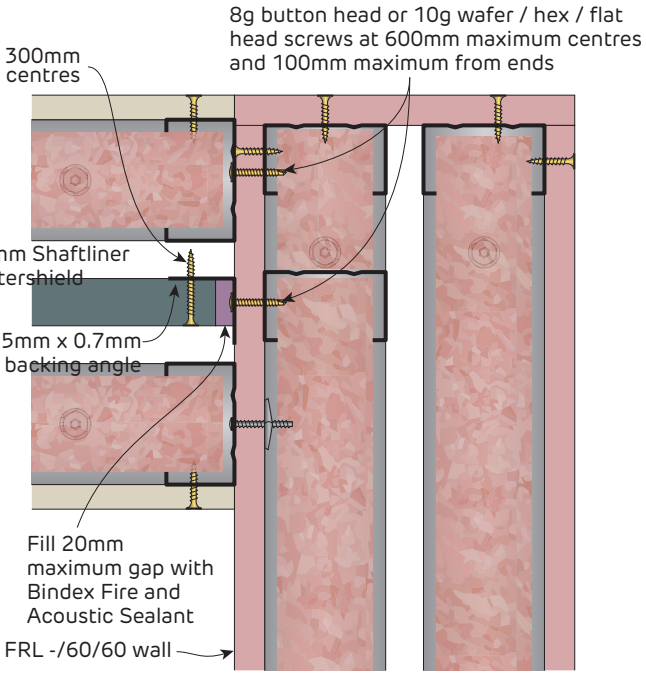


FIGURE 30 Interhome High-Rise Wall Connection to Fire Rated Plasterboard Wall
Plan

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

8g framing screws recommended for 0.3 - 0.75mm BMT Siniat steel profiles.10g screws recommended for 1.15 - 1.5mm BMT Siniat steel profiles

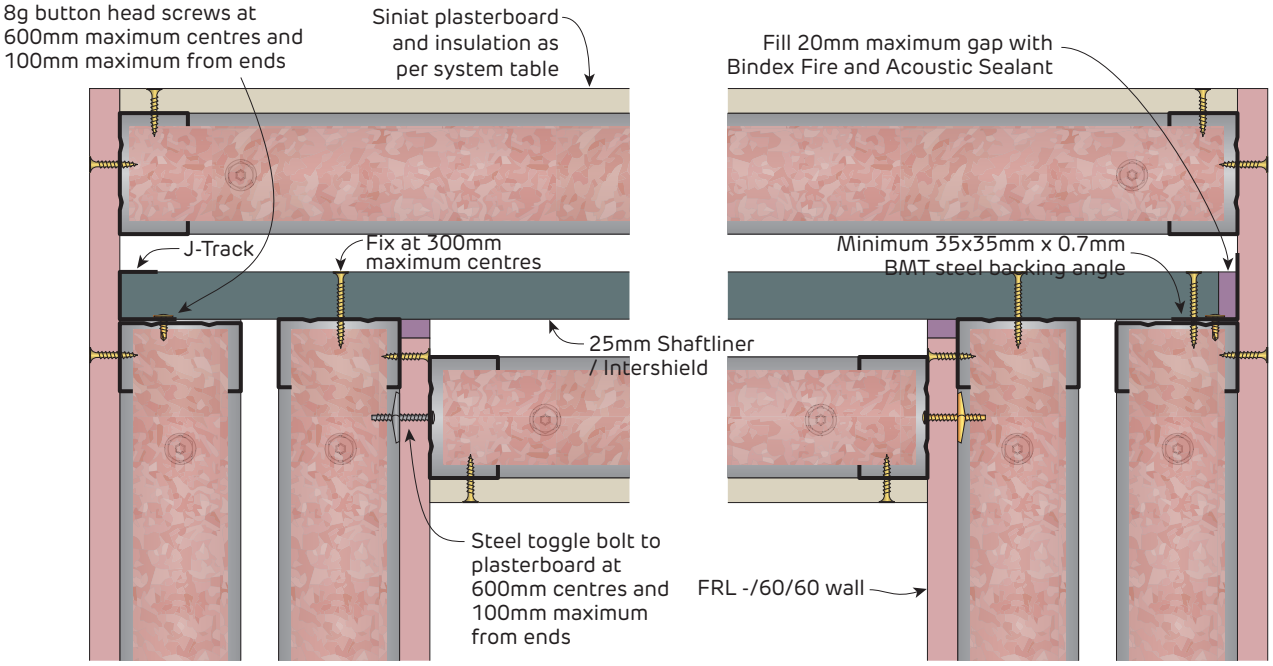


FIGURE 31 Interhome High-Rise Wall Connection to Fire Rated Plasterboard Wall
Plan

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

Fire Rated
Interhome High-Rise Details - FRL -/60/60

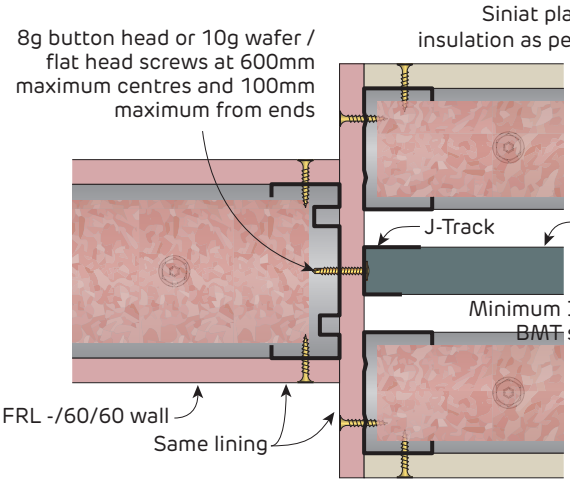


FIGURE 33 Interhome High-Rise Wall Transition to Single Stud Fire Rated Plasterboard Wall
Plan

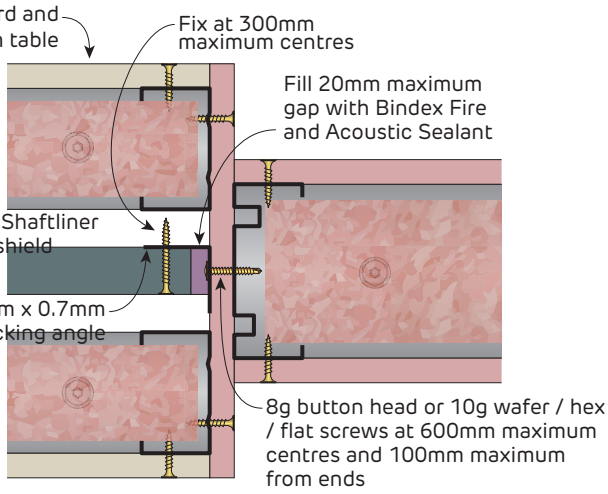


FIGURE 34 Interhome High-Rise Wall Transition to Single Stud Fire Rated Plasterboard Wall
Plan

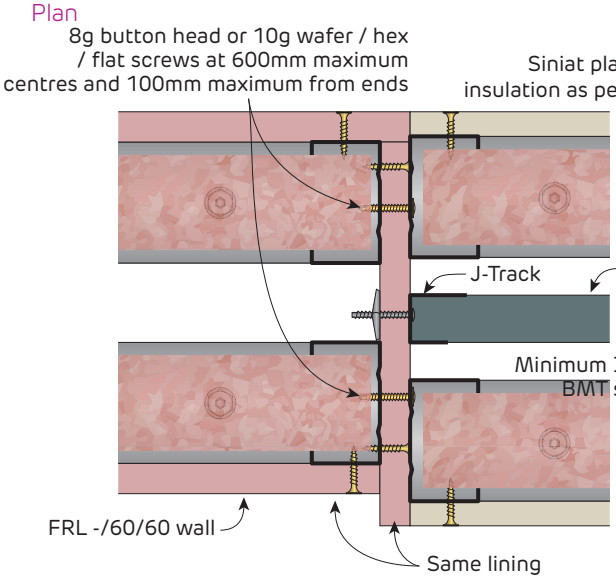


FIGURE 35 Interhome High-Rise Wall Transition to Double Stud Fire Rated Plasterboard Wall
Plan

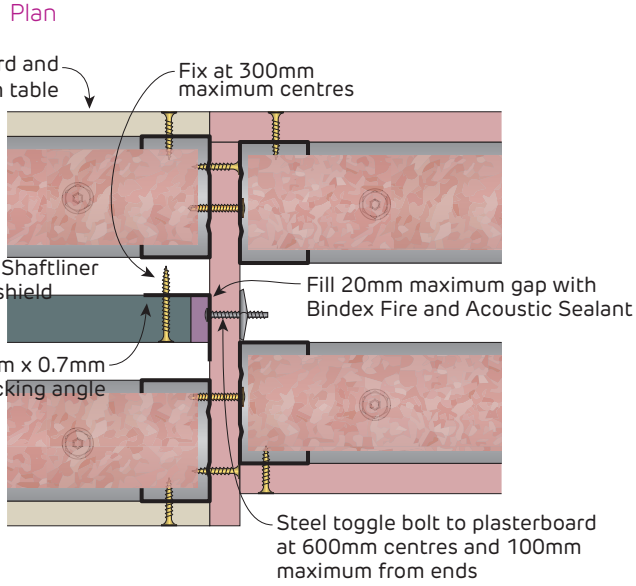


FIGURE 36 Interhome High-Rise Wall Transition to Double Stud Fire Rated Plasterboard Wall
Plan

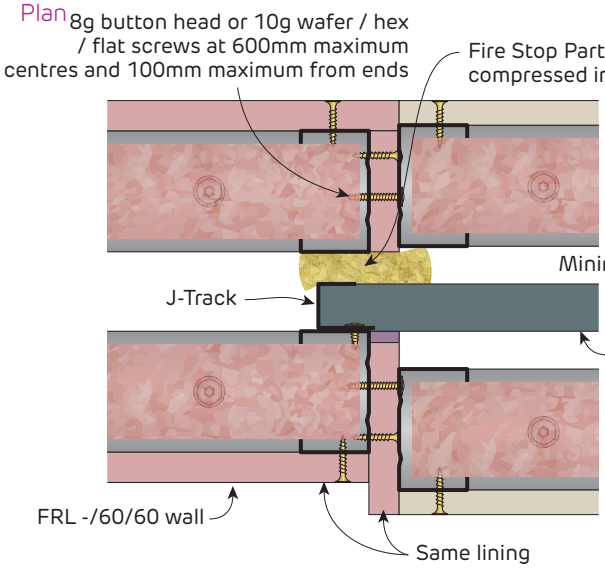


FIGURE 37 Interhome High-Rise Wall Transition to Double Stud Fire Rated Plasterboard Wall
Plan

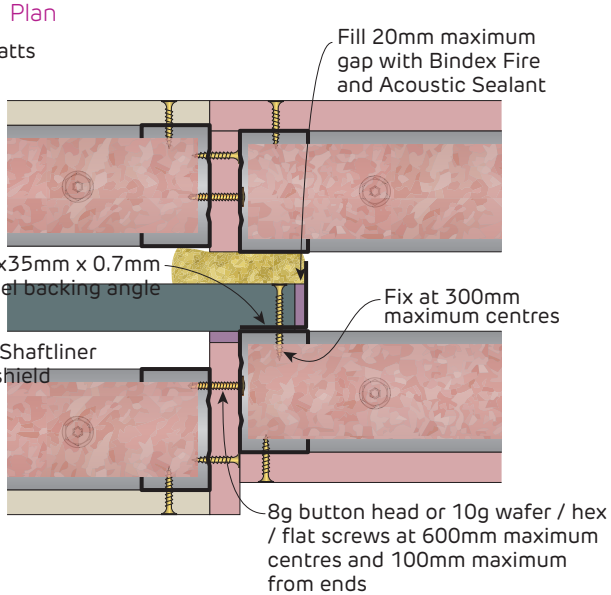


FIGURE 38 Interhome High-Rise Wall Transition to Double Stud Fire Rated Plasterboard Wall
Plan

Fire Rated
Interhome High-Rise Around Column Details - FRL -/60/60

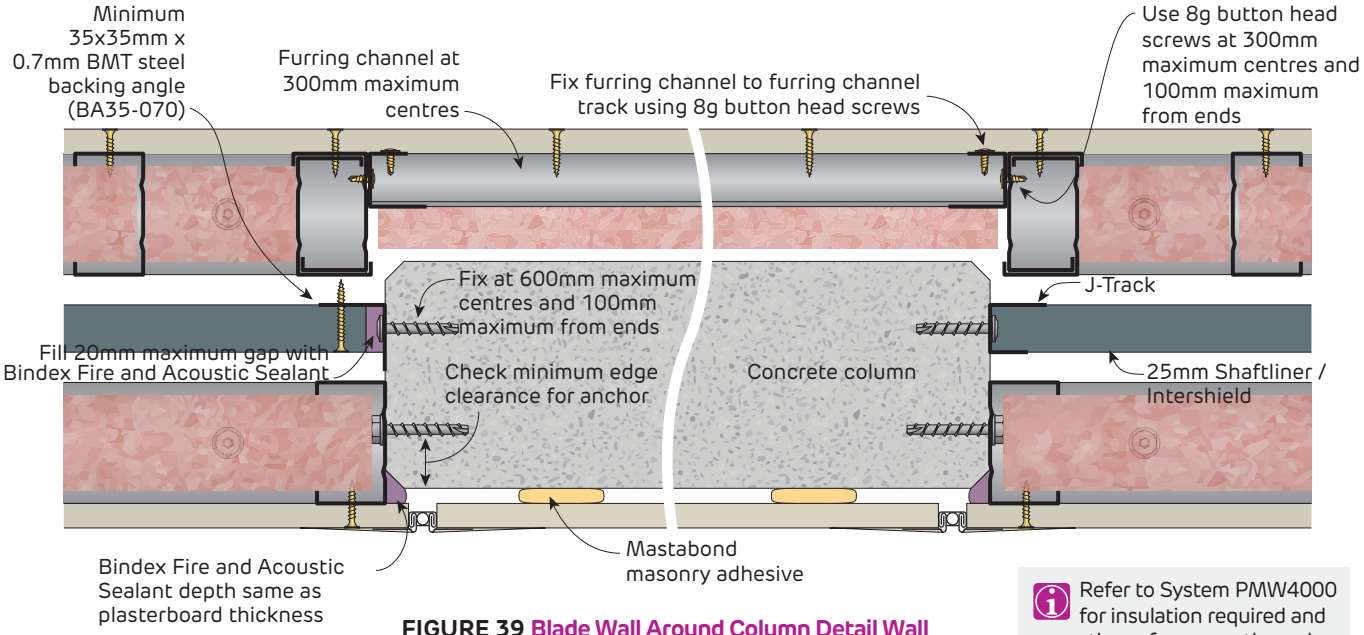


FIGURE 39 Blade Wall Around Column Detail Wall
Plan

Refer to System PMW4000 for insulation required and acoustic performance through concrete blade column

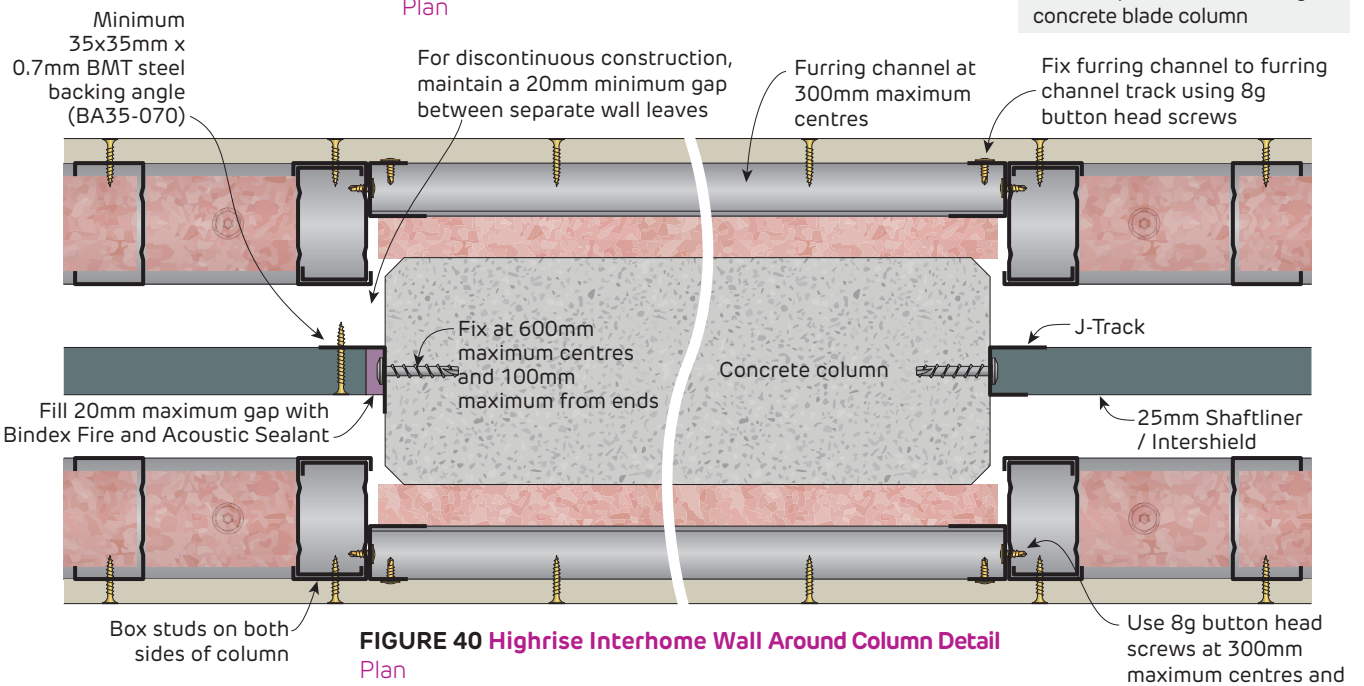


FIGURE 40 Highrise Interhome Wall Around Column Detail
Plan

Table 3 Horizontal Furring Channel Span Table over Column

W_{ult} (kPa)	W_{ser} (kPa)	28mm Furring Channel (mm)
0.39	0.25	1350
0.47	0.3	1280
0.54	0.35	1240
0.59	0.25	1210
0.71	0.3	1150
0.83	0.35	1100

8g framing screws recommended for 0.3 - 0.75mm BMT Siniat steel profiles.10g screws recommended for 1.15 - 1.5mm BMT Siniat steel profiles

Notes
1. Furring channels at 300mm maximum centres
2. Lateral deflection limited to span/240
3. An alternative framing design may be used provided the wall system has the 'structural adequacy' part to the Fire Resistance Level for the time period required.

Fire Rated
Interhome High-Rise Details - FRL -/60/60

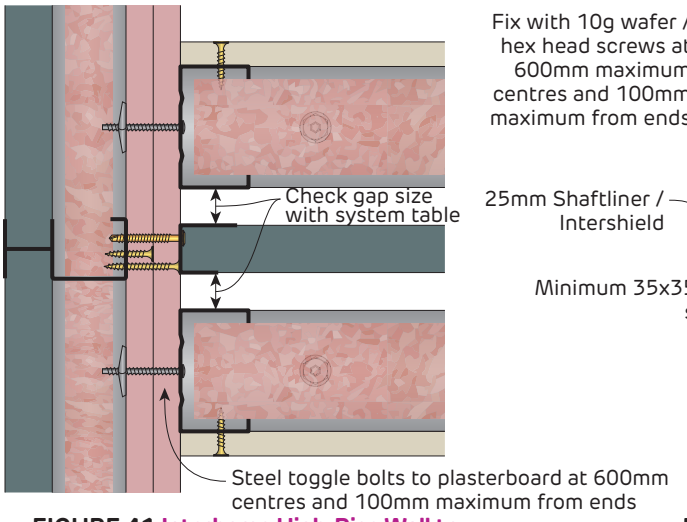


FIGURE 41 Interhome High-Rise Wall to Shaft Wall
Plan

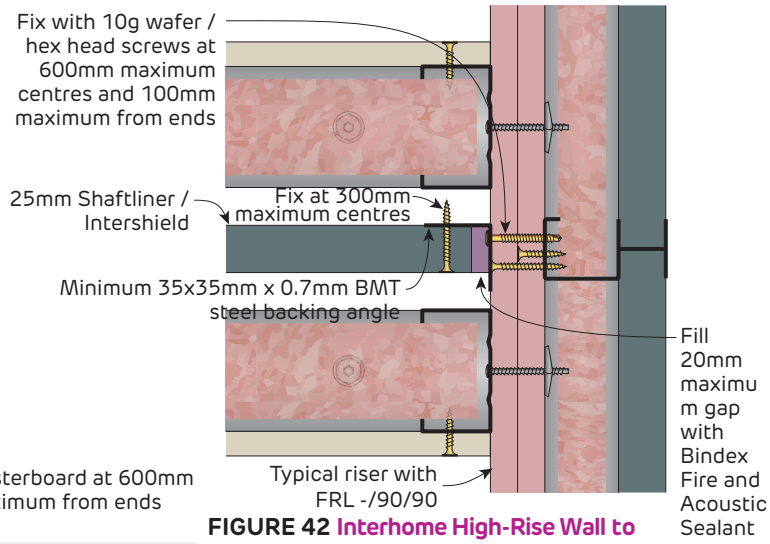


FIGURE 42 Interhome High-Rise Wall to Shaft Wall
Plan

Low sound flanking resistance for separating walls

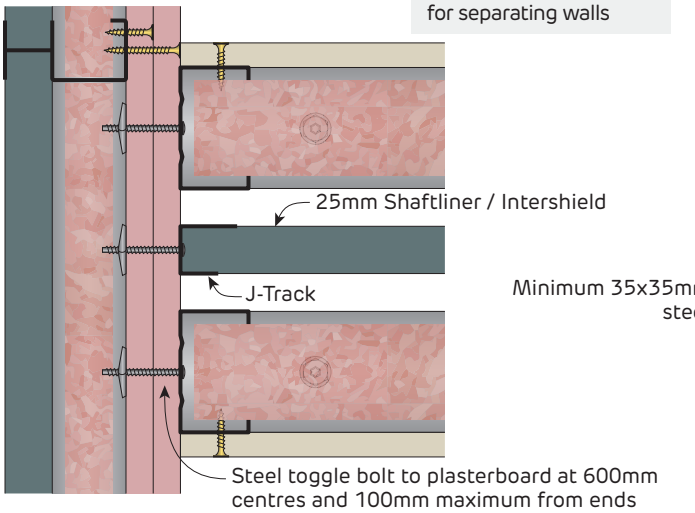


FIGURE 43 Interhome High-Rise Wall to Shaft Wall
Plan

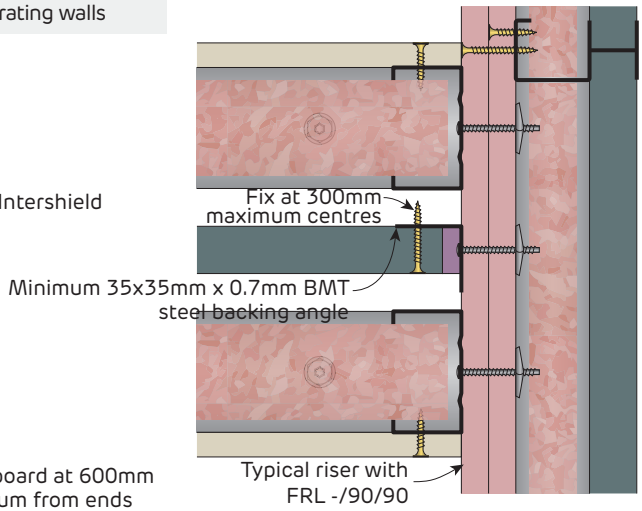


FIGURE 44 Interhome High-Rise Wall to Shaft Wall
Plan

Low sound flanking resistance for separating walls

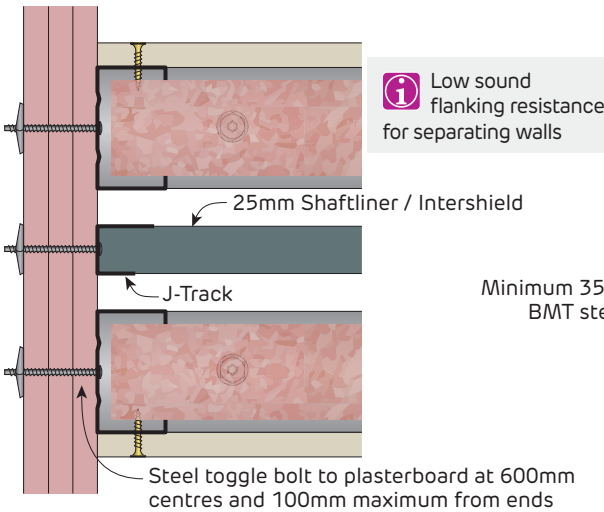


FIGURE 45 Interhome High-Rise Wall to Laminated Vertical Duct
Plan

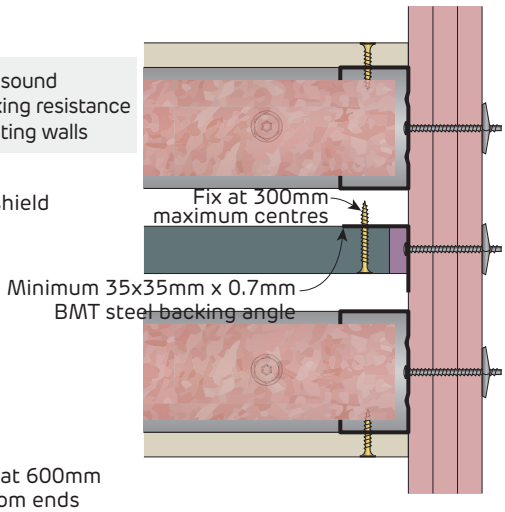


FIGURE 46 Interhome High-Rise Wall to Laminated Vertical Duct
Plan

Fire Rated
Interhome High-Rise Details - FRL -/60/60

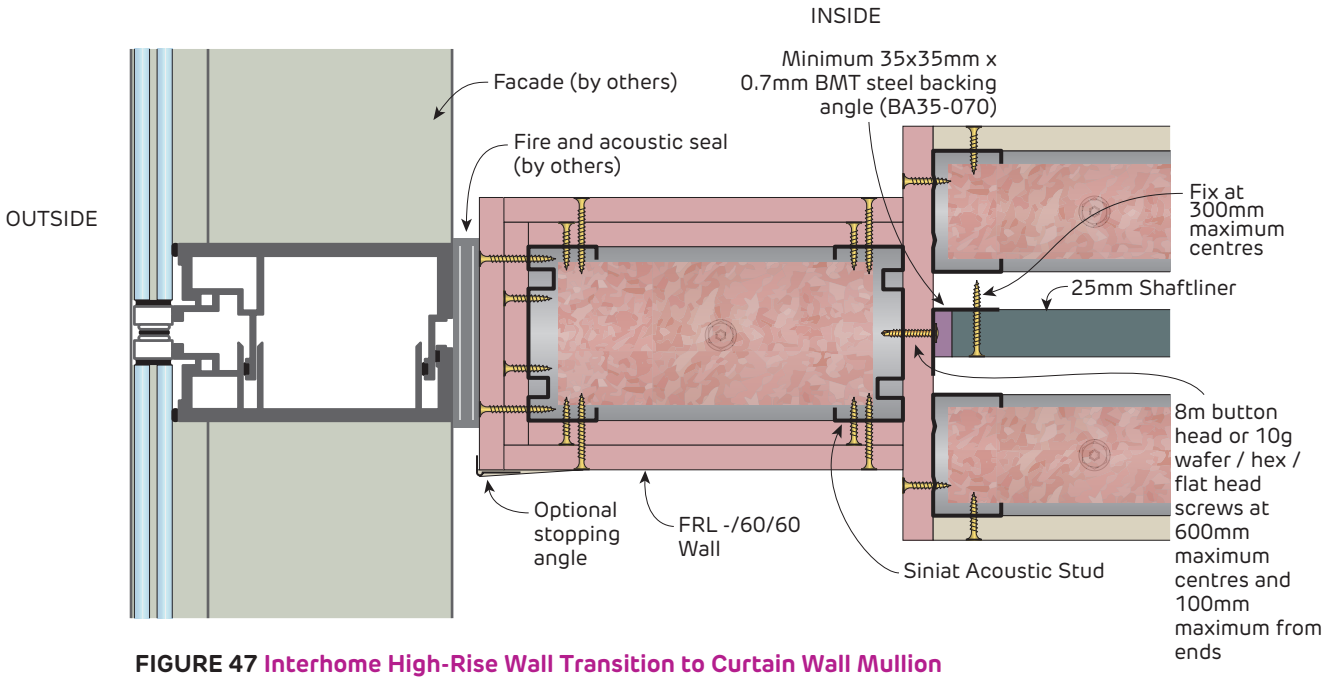


FIGURE 47 Interhome High-Rise Wall Transition to Curtain Wall Mullion
Plan

Consider project specific requirements before joining internal partition walls to facades

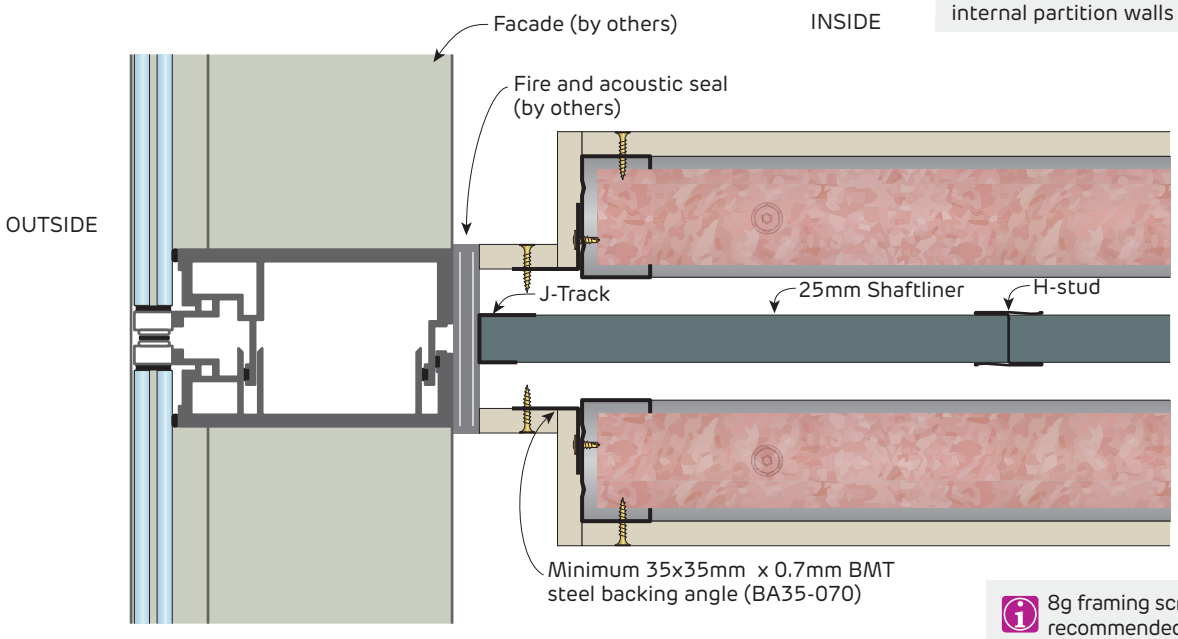


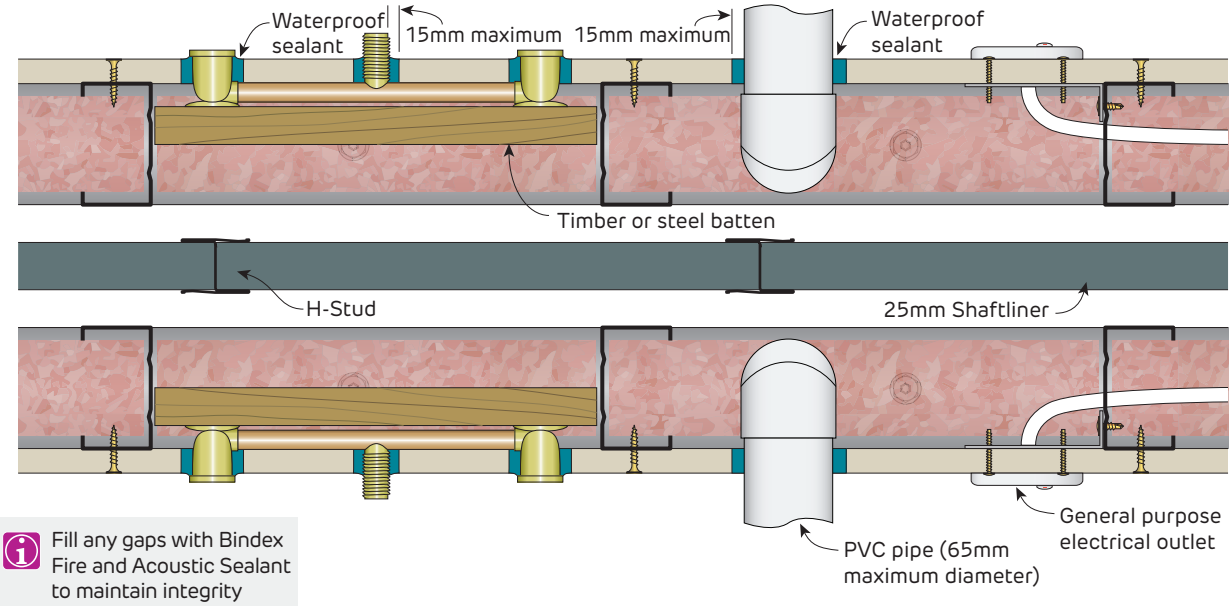
FIGURE 48 Interhome High-Rise Wall Transition to Curtain Wall Mullion
Plan

8g framing screws recommended for 0.3 - 0.75mm BMT Siniat steel profiles. 10g screws recommended for 1.15 - 1.5mm BMT Siniat steel profiles

Fire Rated
Interhome High-Rise Penetration Details - FRL -/60/60

Prevent contact between all services and the central fire barrier.

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



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

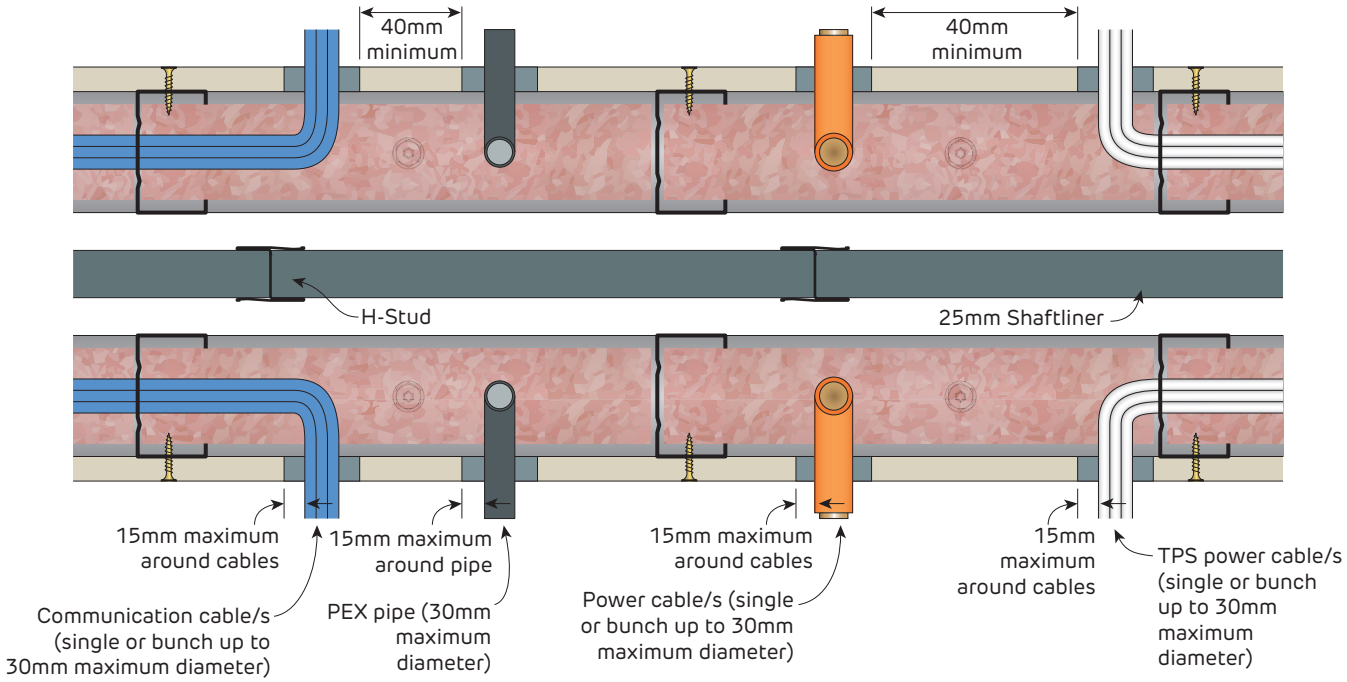


FIGURE 49 Plumbing and Electrical Penetrations in Wall Linings
Plan

Fire Rated
Patching of Central Fire Barrier for Service Penetrations

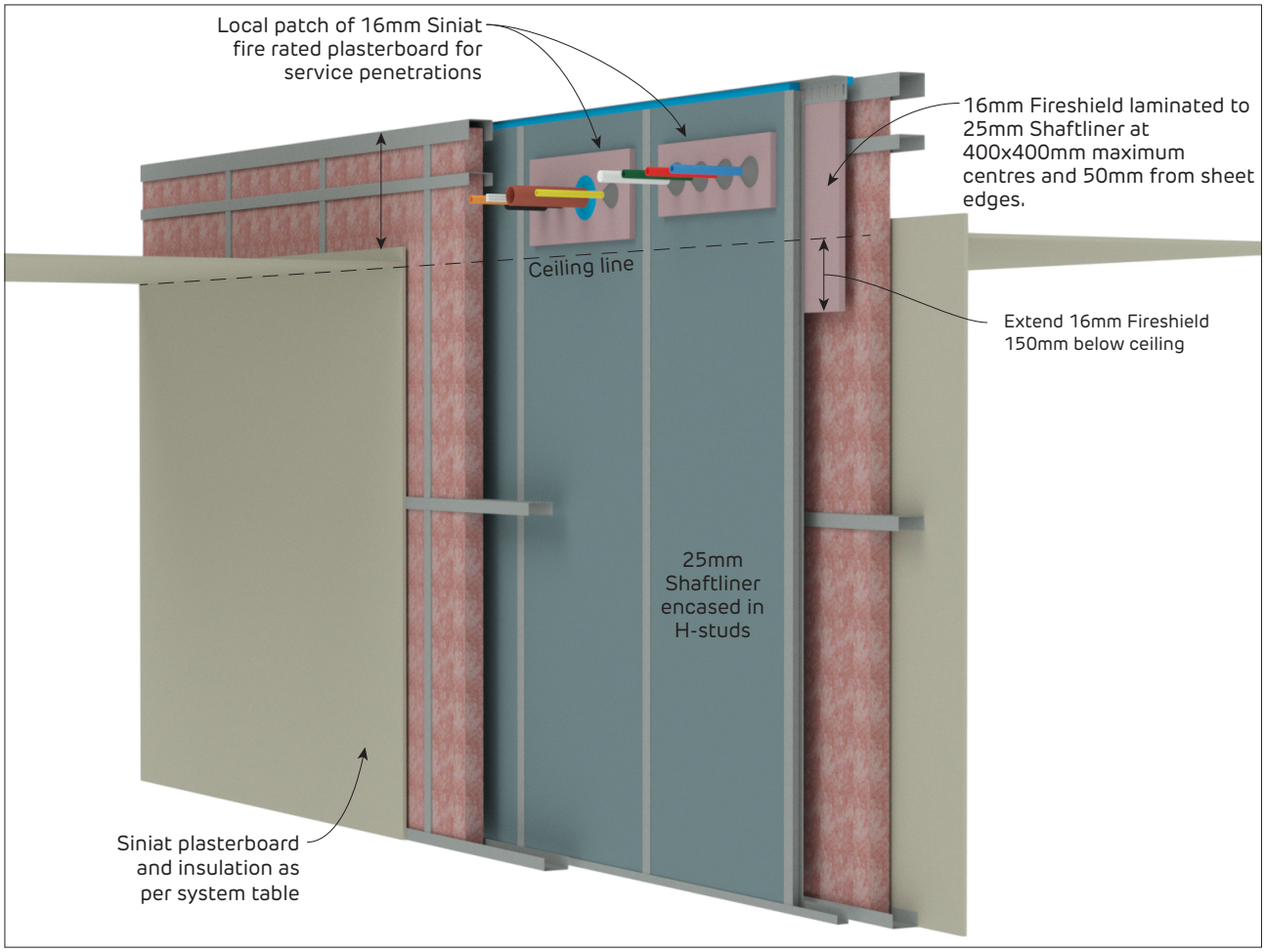


FIGURE 50 Penetrations Through Central Fire Barrier Along Ceiling Cavity
Perspective

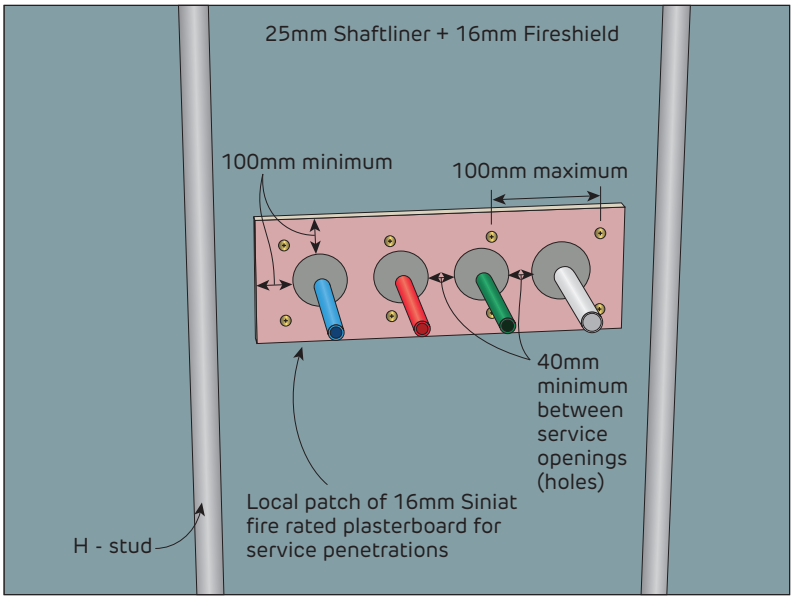


FIGURE 51 Local Patch for Penetrations Through Central Fire Barrier
With example service penetrations
Perspective

Fire Rated
Patching of Central Fire Barrier for Service Penetrations

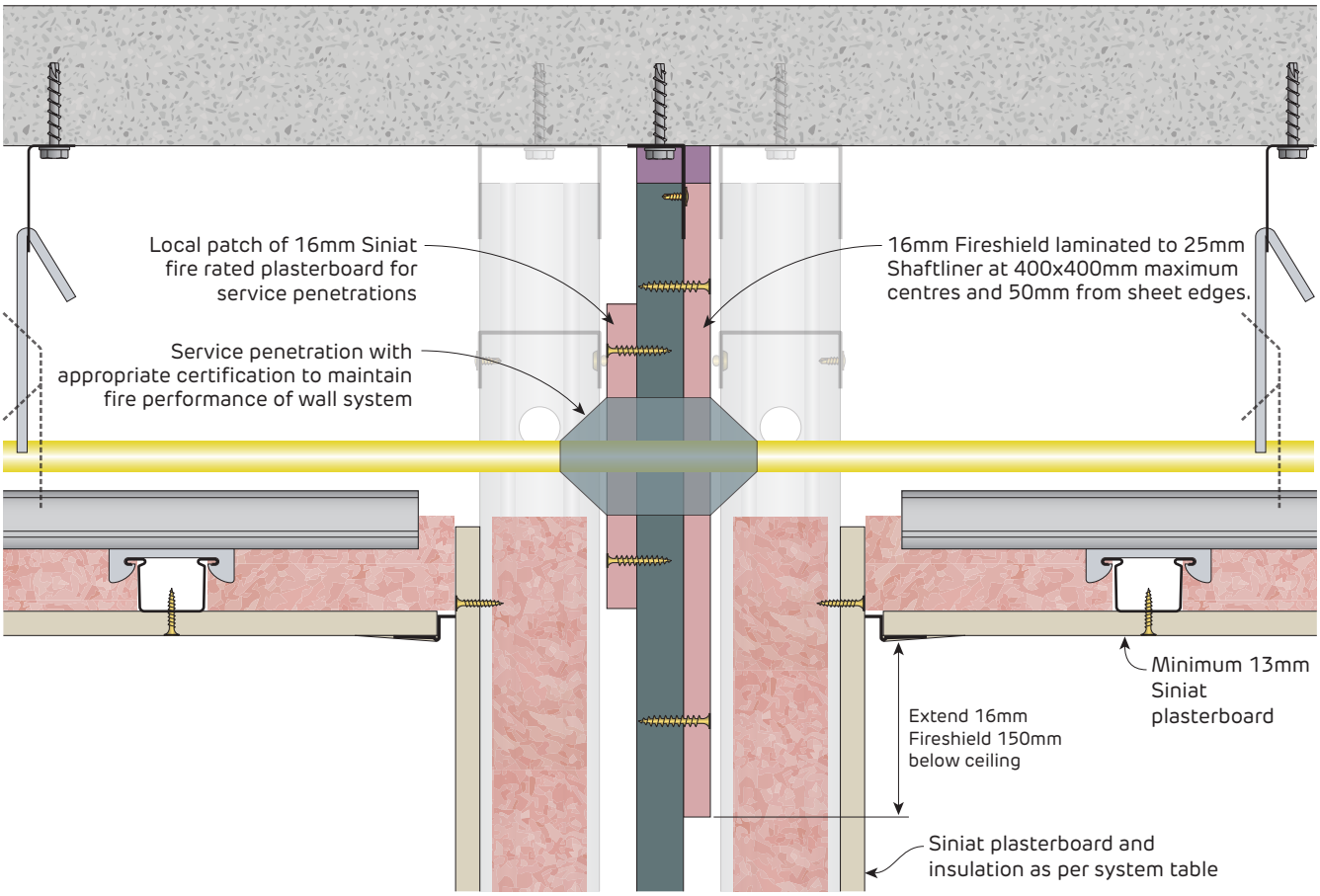


FIGURE 52 Penetrations Through Central Fire Barrier Along Ceiling Cavity
With example service penetration
Section

Fire Rated
Interhome High-Rise Penetration Details

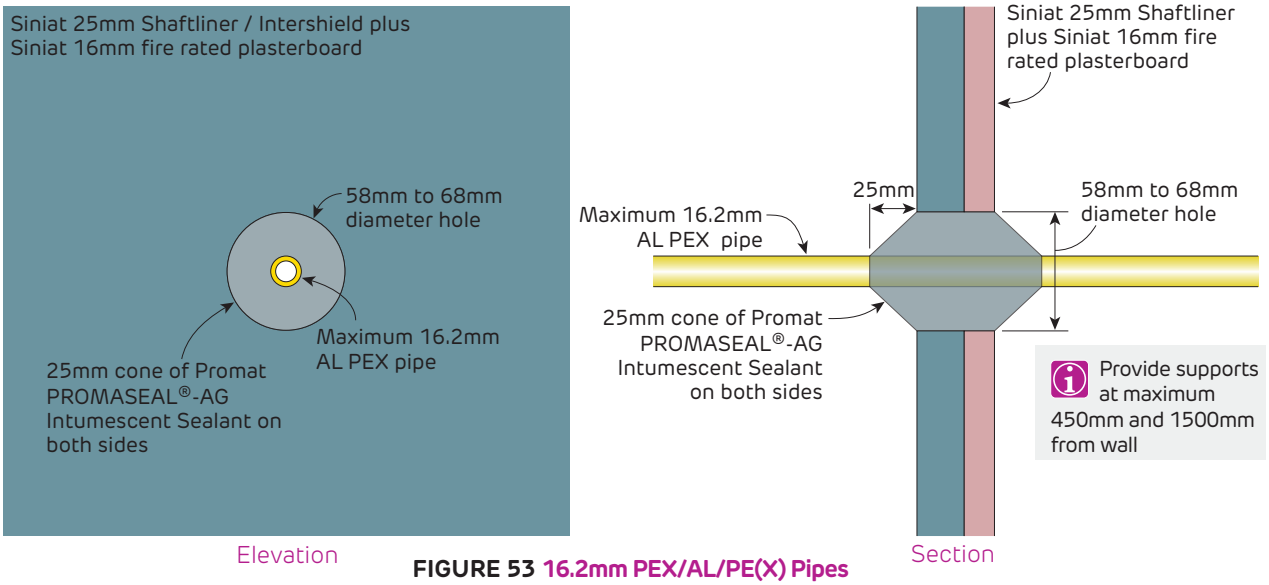


FIGURE 53 16.2mm PEX/AL/PE(X) Pipes
FRL -/60/60

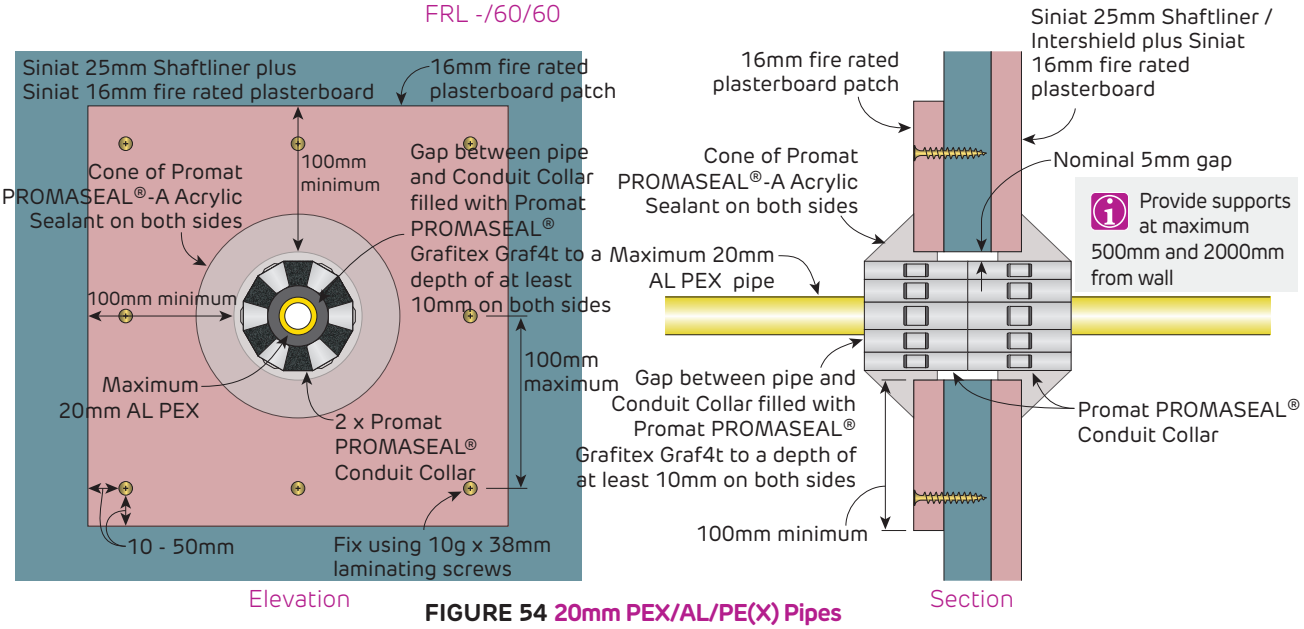


FIGURE 54 20mm PEX/AL/PE(X) Pipes
FRL -/60/60

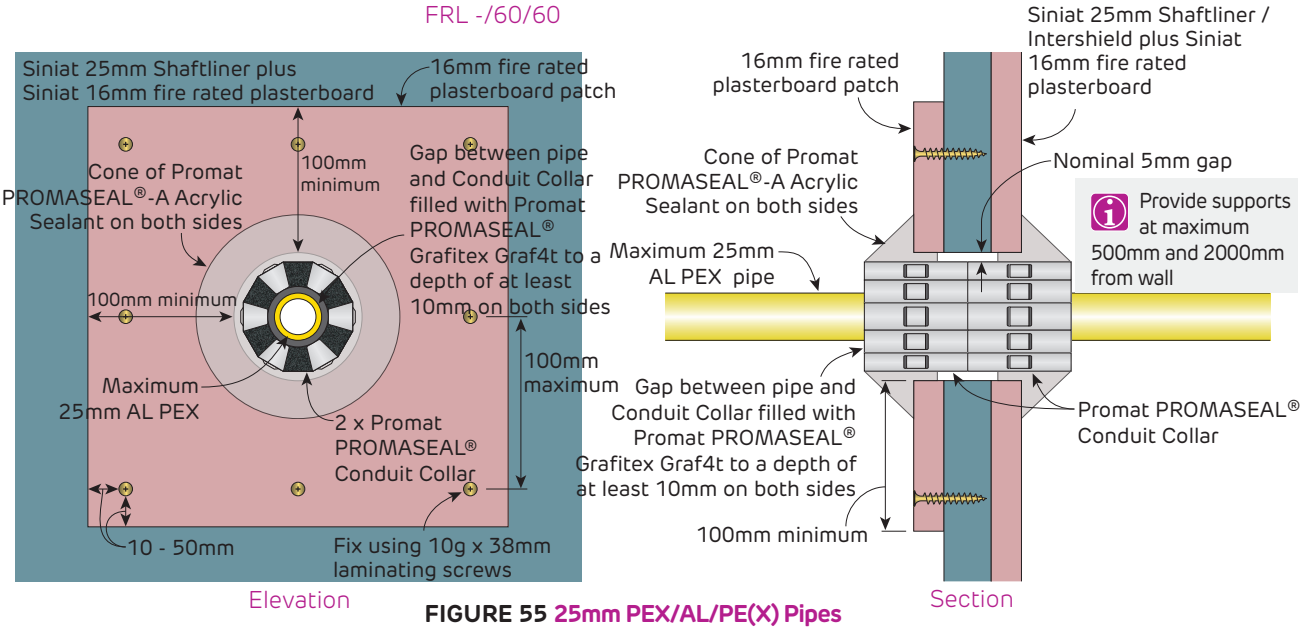


FIGURE 55 25mm PEX/AL/PE(X) Pipes
FRL -/60/30

Fire Rated
Interhome High-Rise Penetration Details

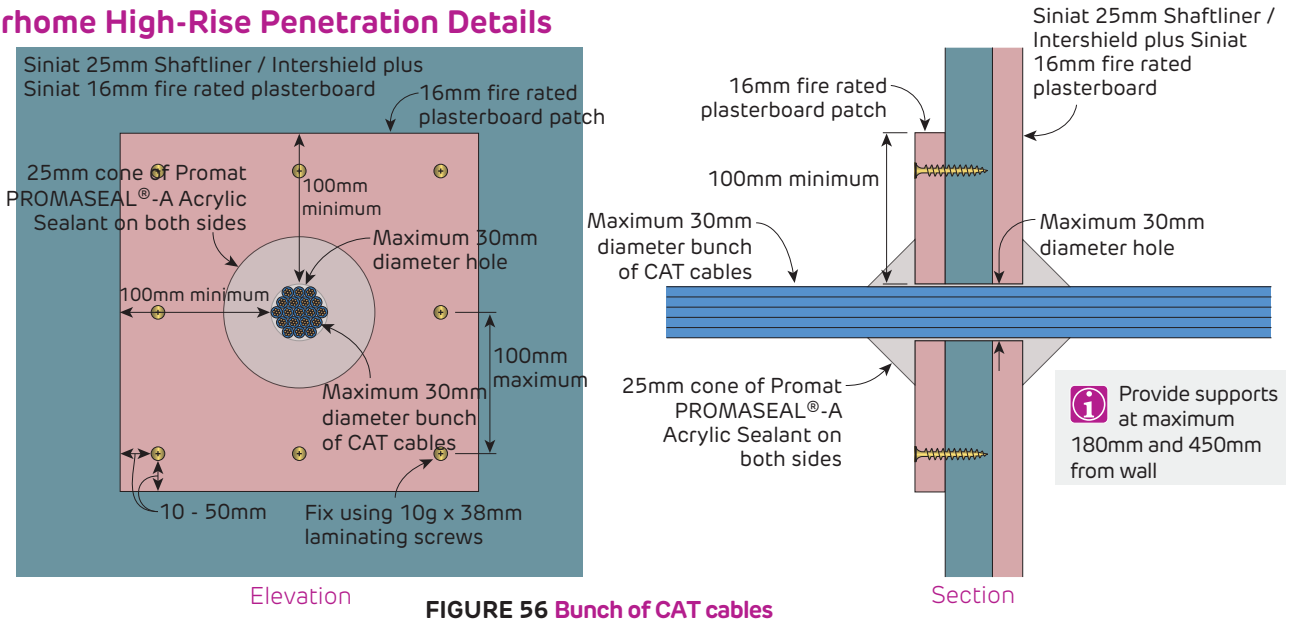


FIGURE 56 Bunch of CAT cables
FRL -/60/30

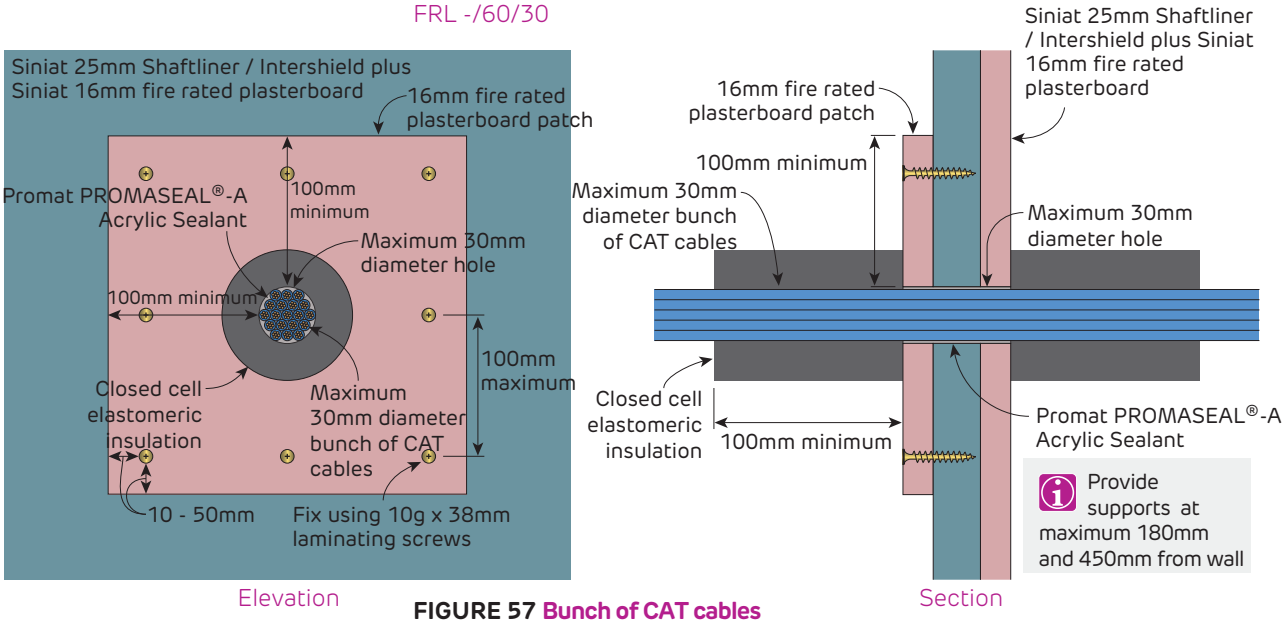


FIGURE 57 Bunch of CAT cables
FRL -/60/60

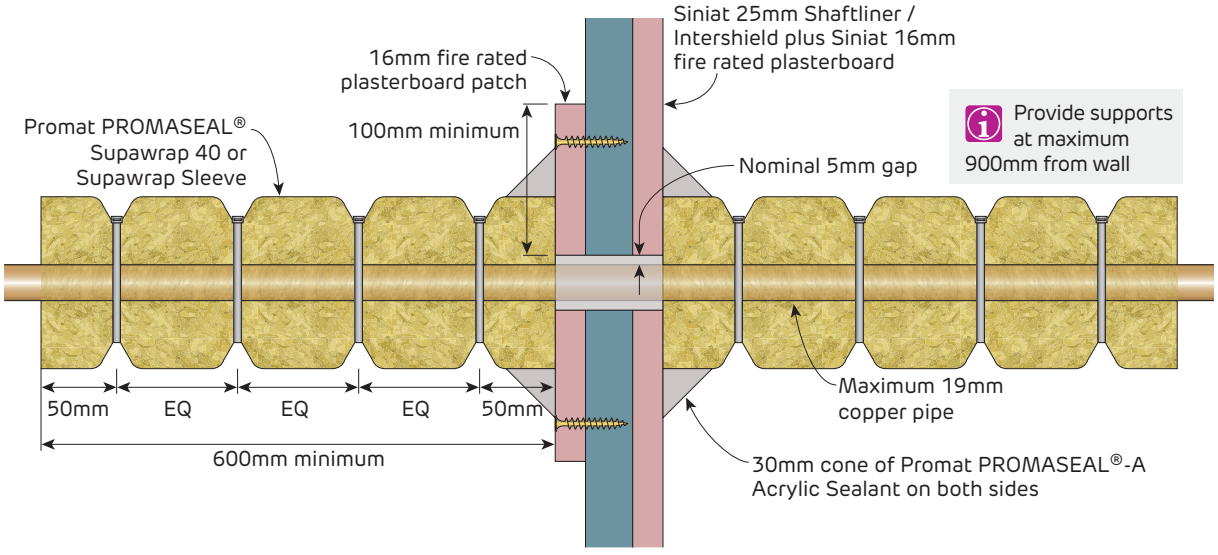


FIGURE 58 Copper pipe
FRL -/60/60
Section

Fire Rated
Interhome High-Rise Penetration Details

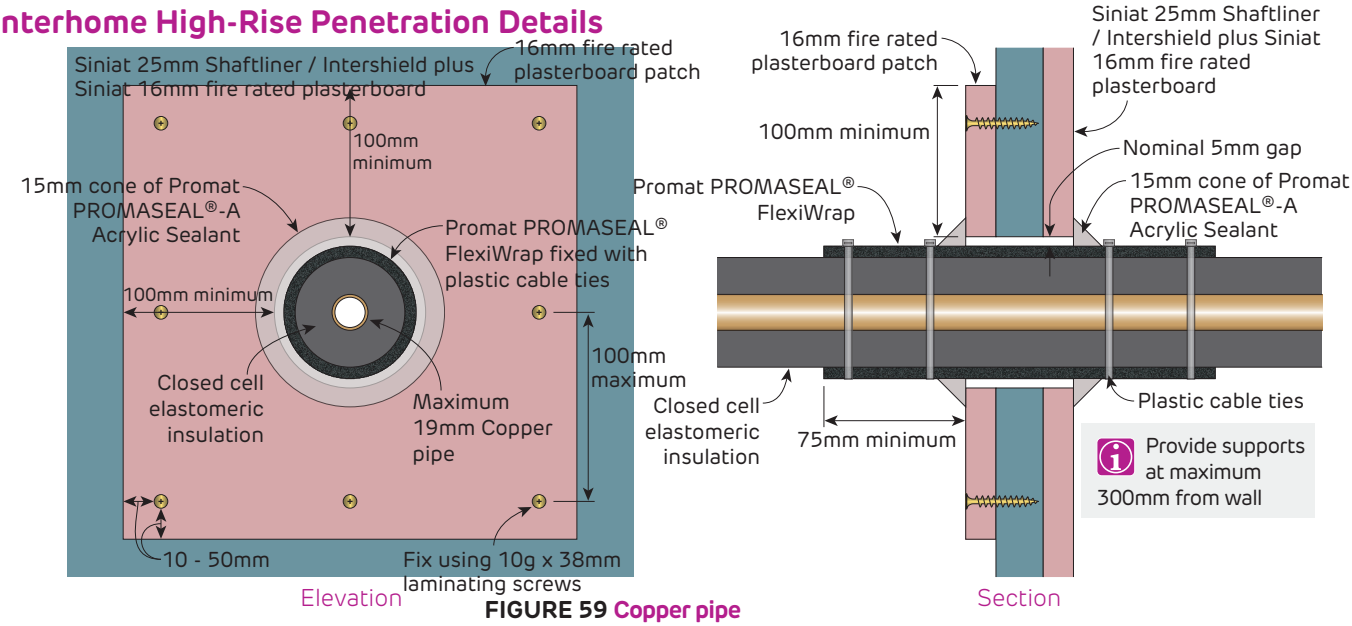


FIGURE 59 Copper pipe
FRL -/60/60

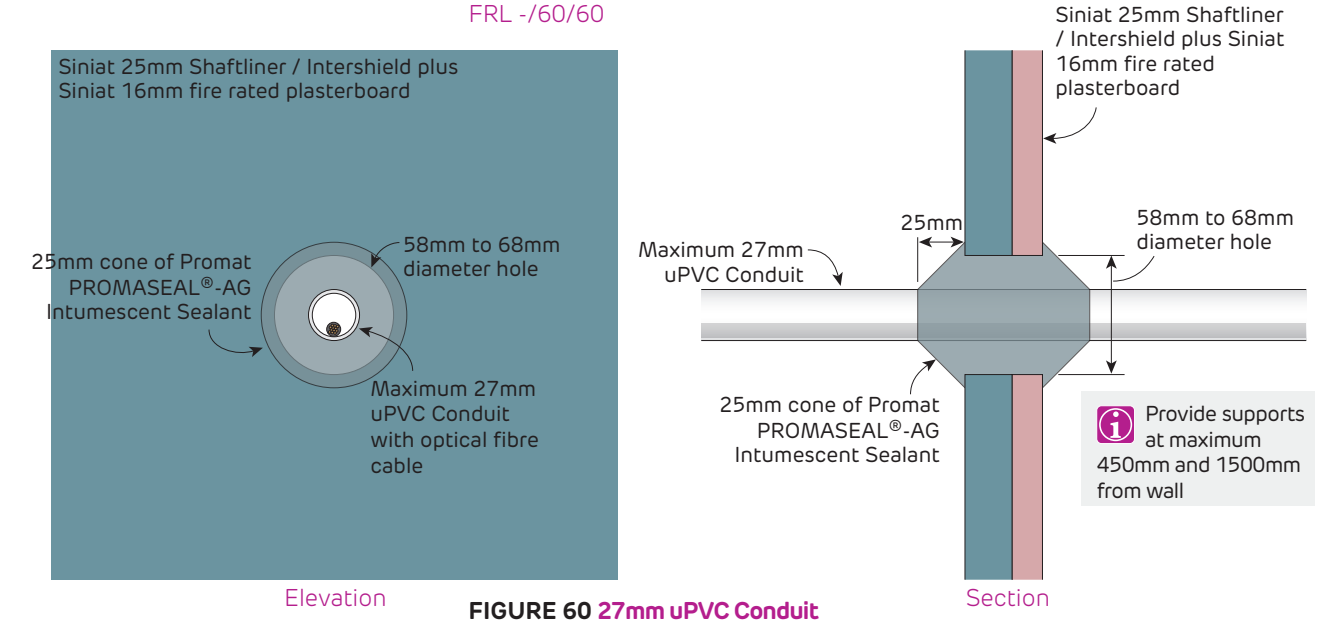


FIGURE 60 27mm uPVC Conduit
FRL -/60/60

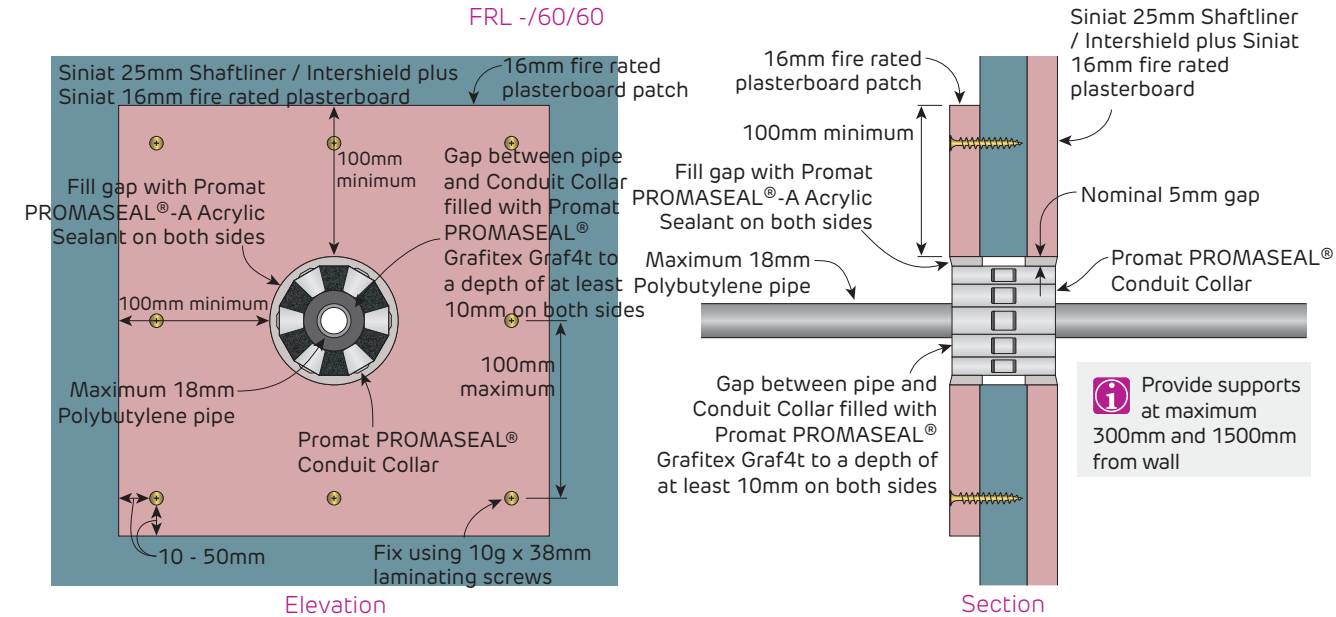


FIGURE 61 18mm Polybutylene (Pro-fit) Pipes
FRL -/60/60

Fire Rated
Interhome High-Rise Penetration Details

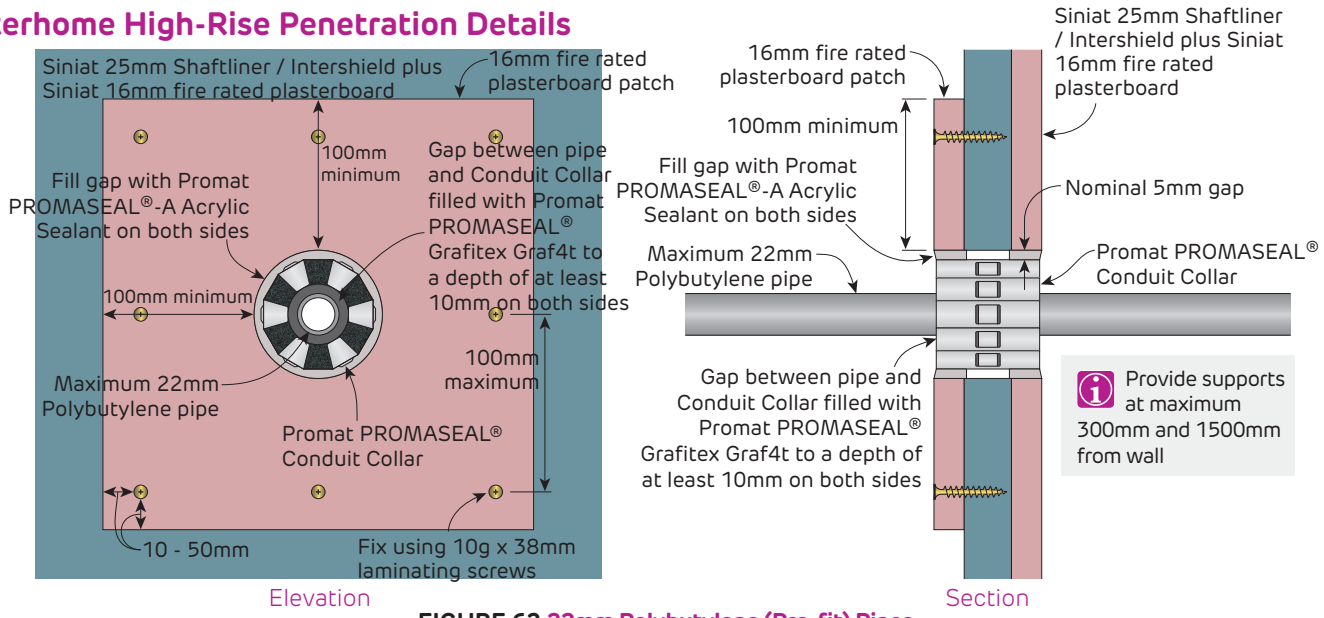


FIGURE 62 22mm Polybutylene (Pro-fit) Pipes
FRL -/60/60

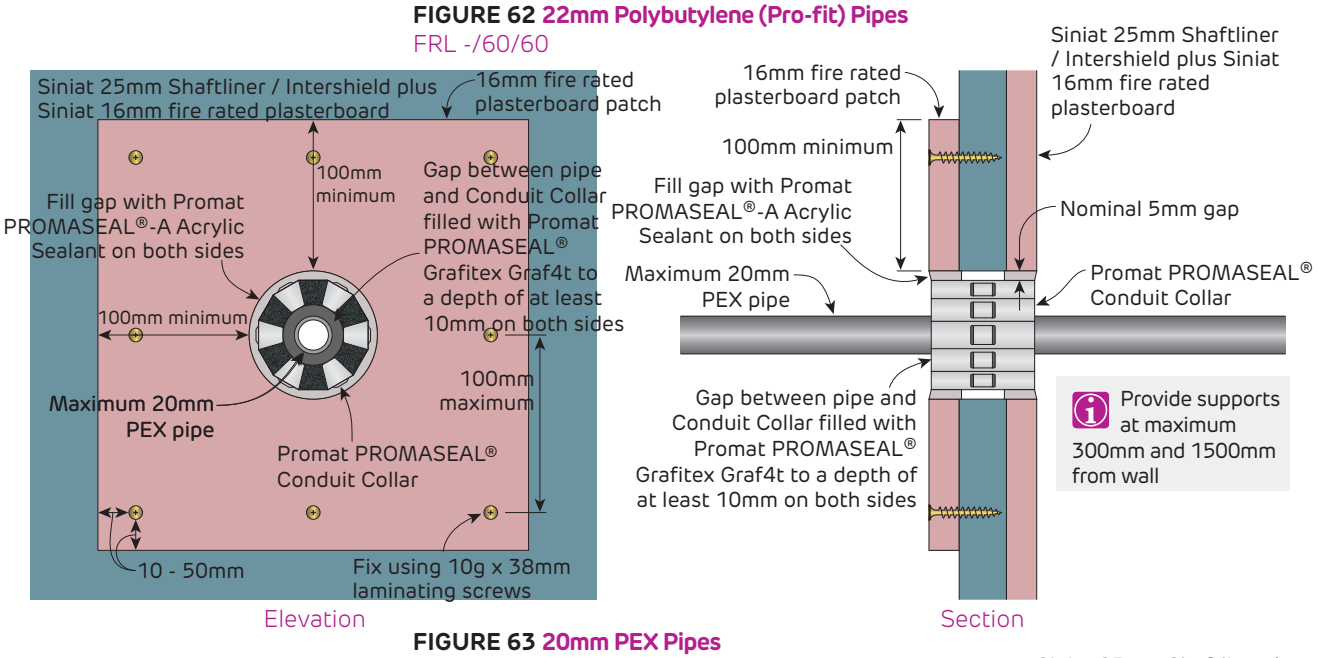


FIGURE 63 20mm PEX Pipes
FRL -/60/60

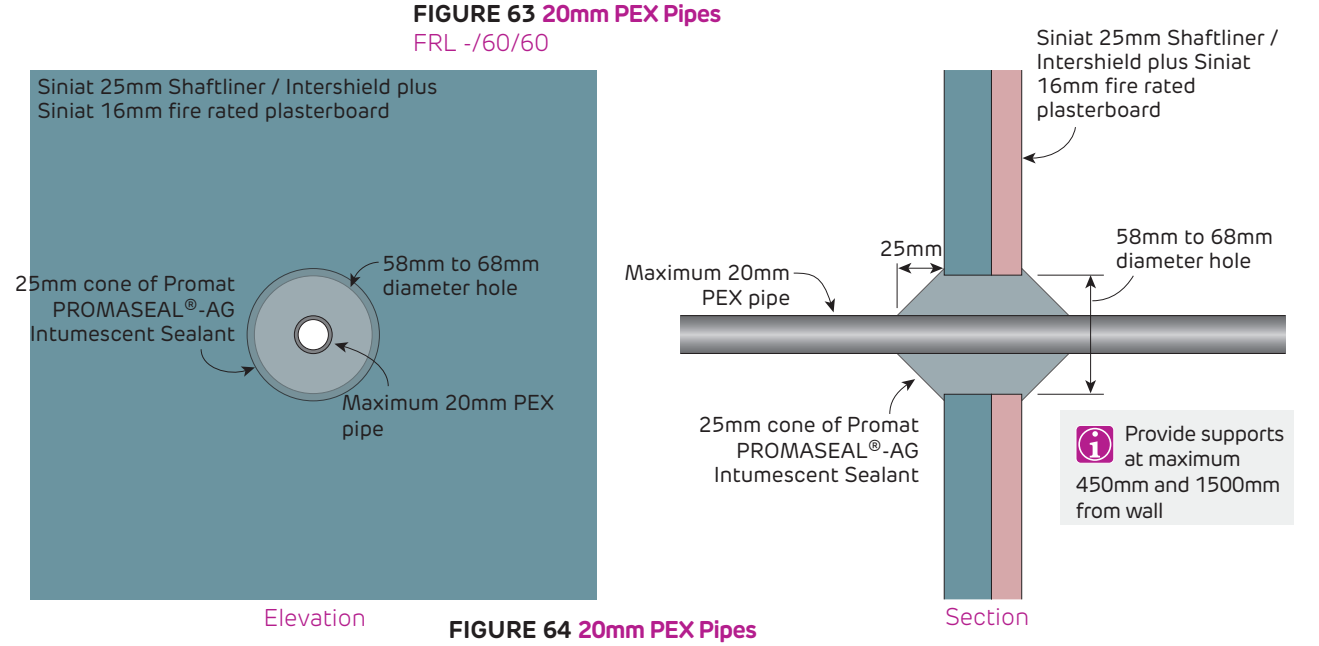
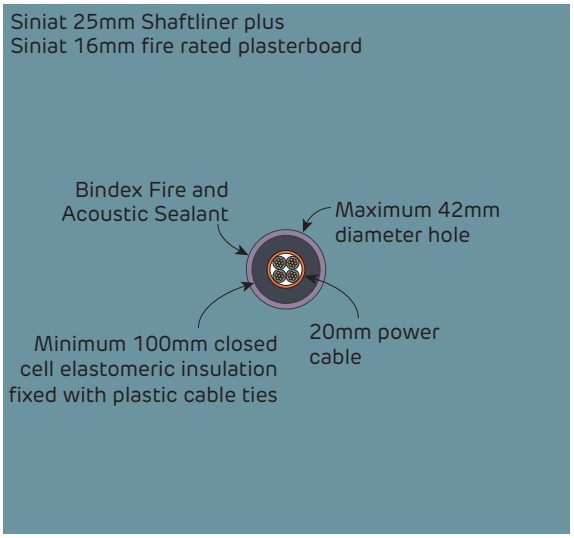
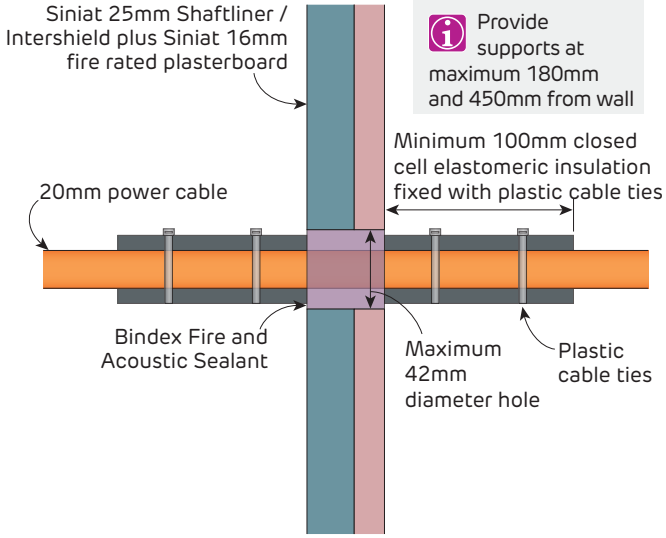


FIGURE 64 20mm PEX Pipes
FRL -/60/60

Fire Rated
Interhome High-Rise Penetration Details

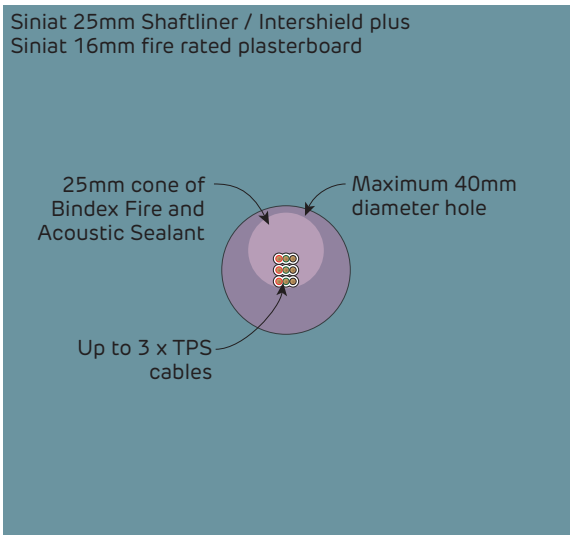


Elevation

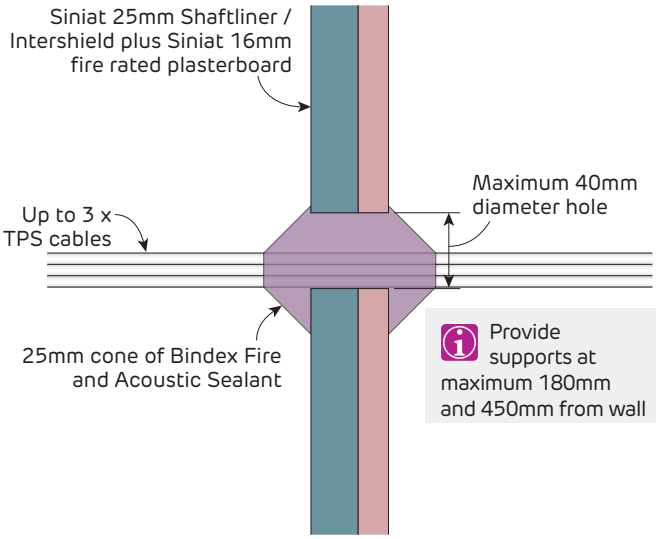


Section

FIGURE 65 20mm Power Cable
FRL -/60/60

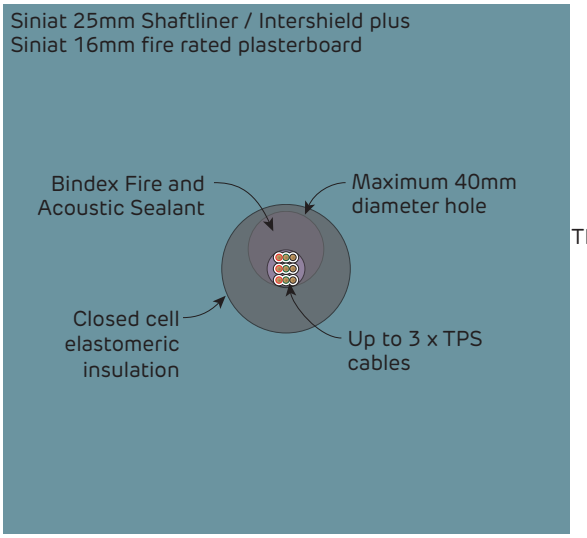


Elevation

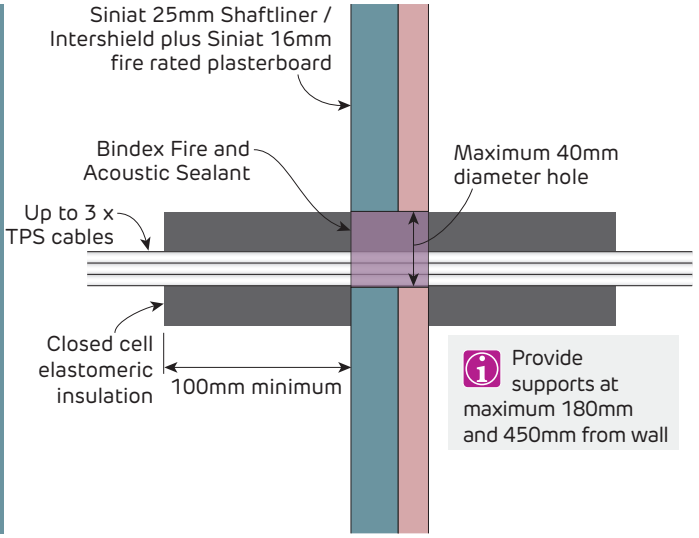


Section

FIGURE 66 TPS Cable Penetration
FRL -/60/30



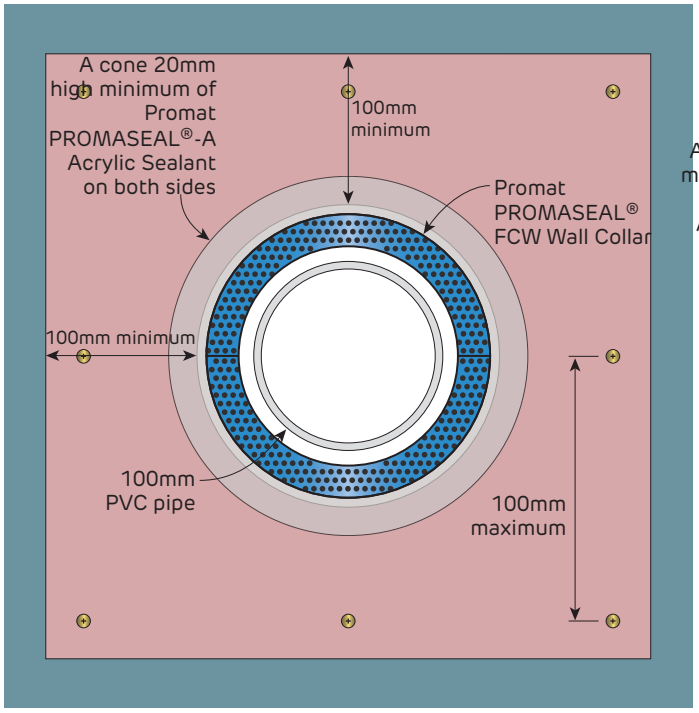
Elevation



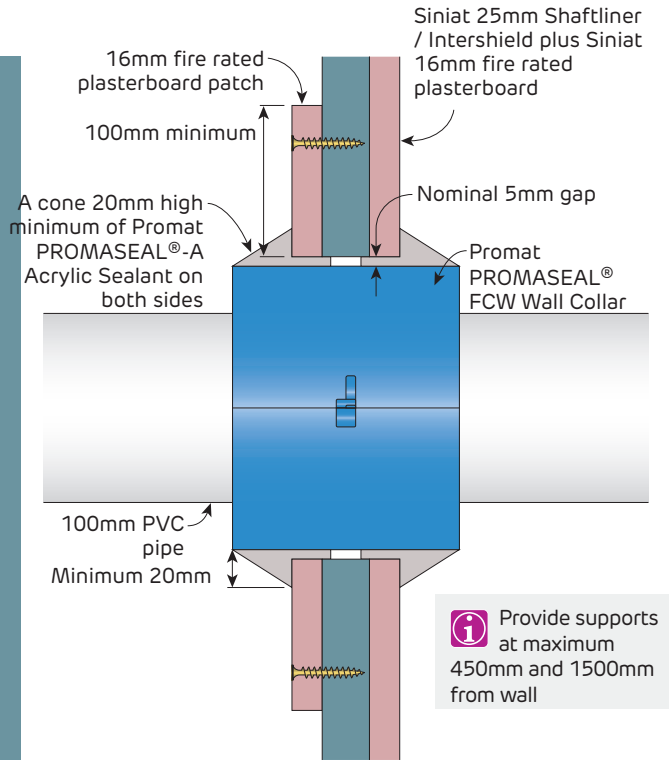
Section

FIGURE 67 TPS Cable Penetration
FRL -/60/60

Fire Rated
Interhome High-Rise Penetration Details

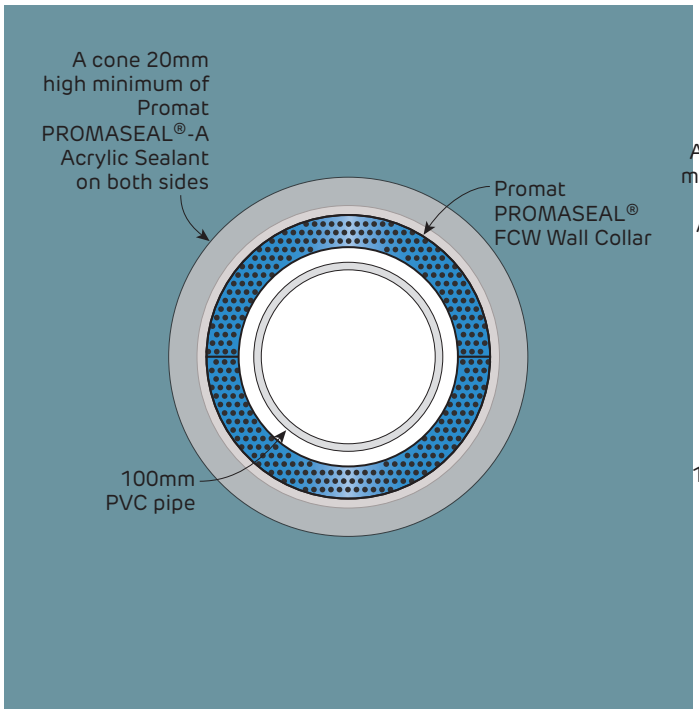


Elevation

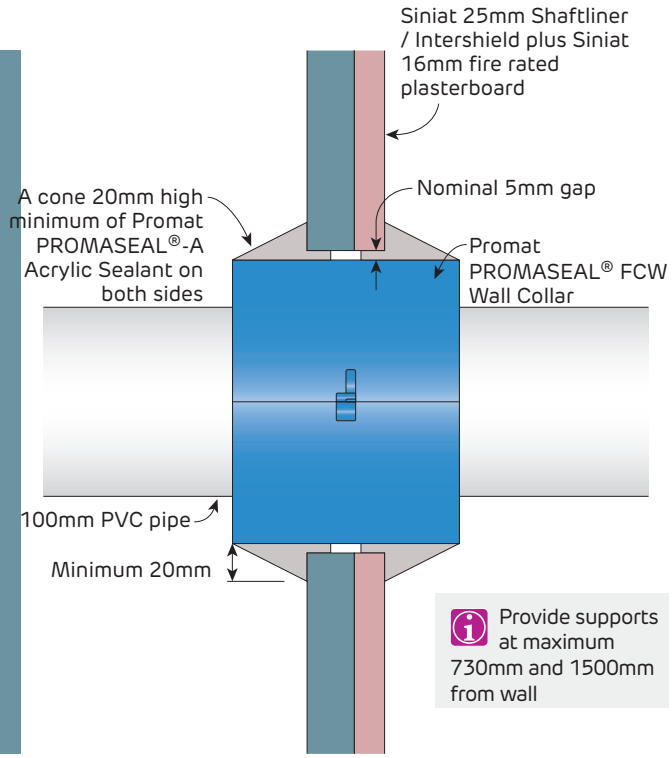


Section

FIGURE 68 100mm PVC Pipe
FRL -/60/60



Elevation



Section

FIGURE 69 100mm PVC Pipe
FRL -/60/60

Fire Rated
Interhome High-Rise Penetration Details

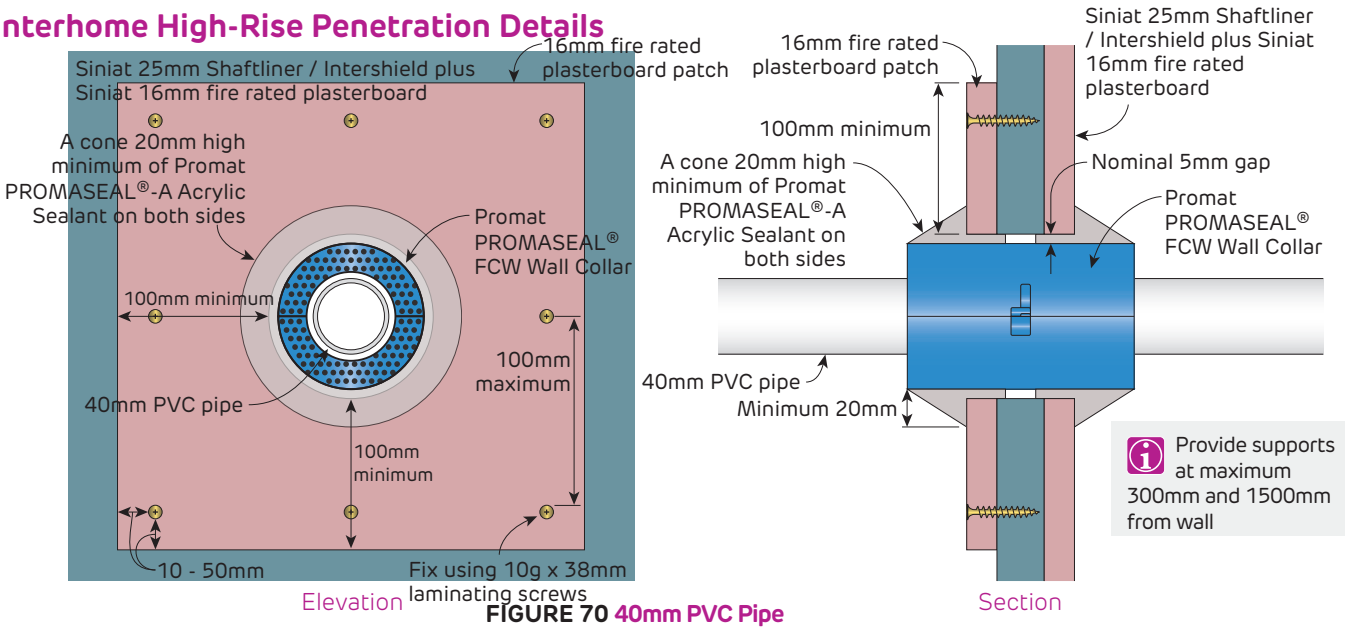


FIGURE 70 40mm PVC Pipe
FRL -/60/60

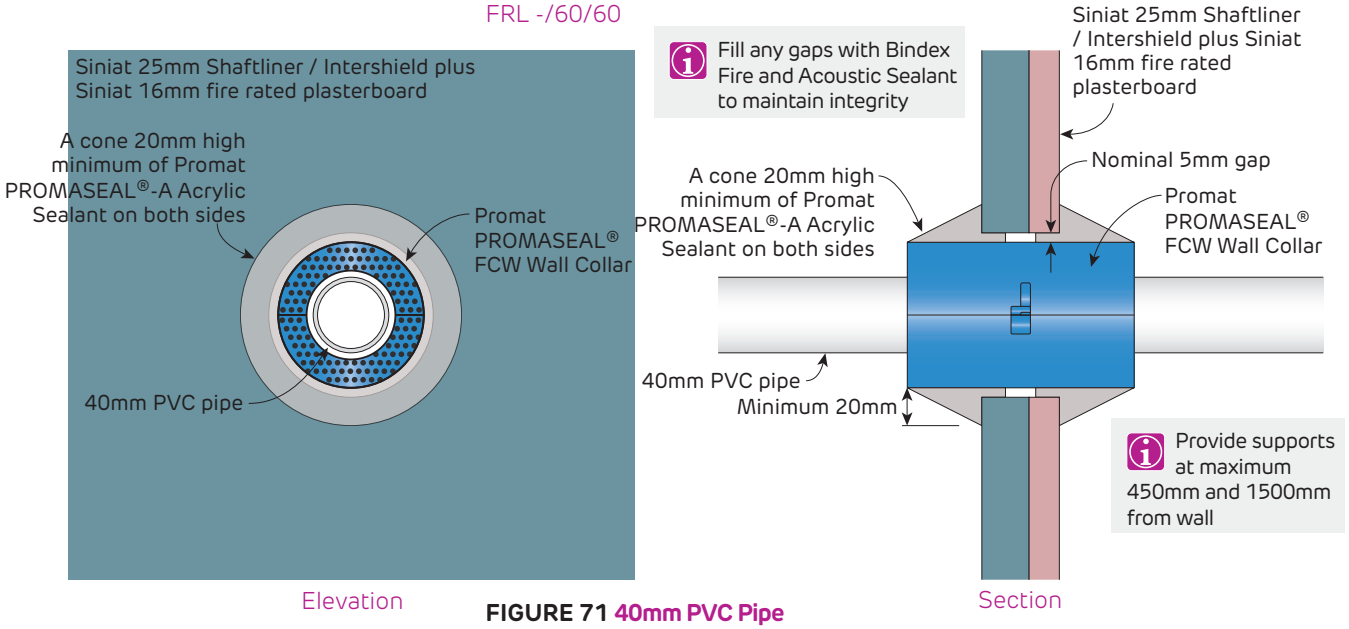


FIGURE 71 40mm PVC Pipe
FRL -/60/30

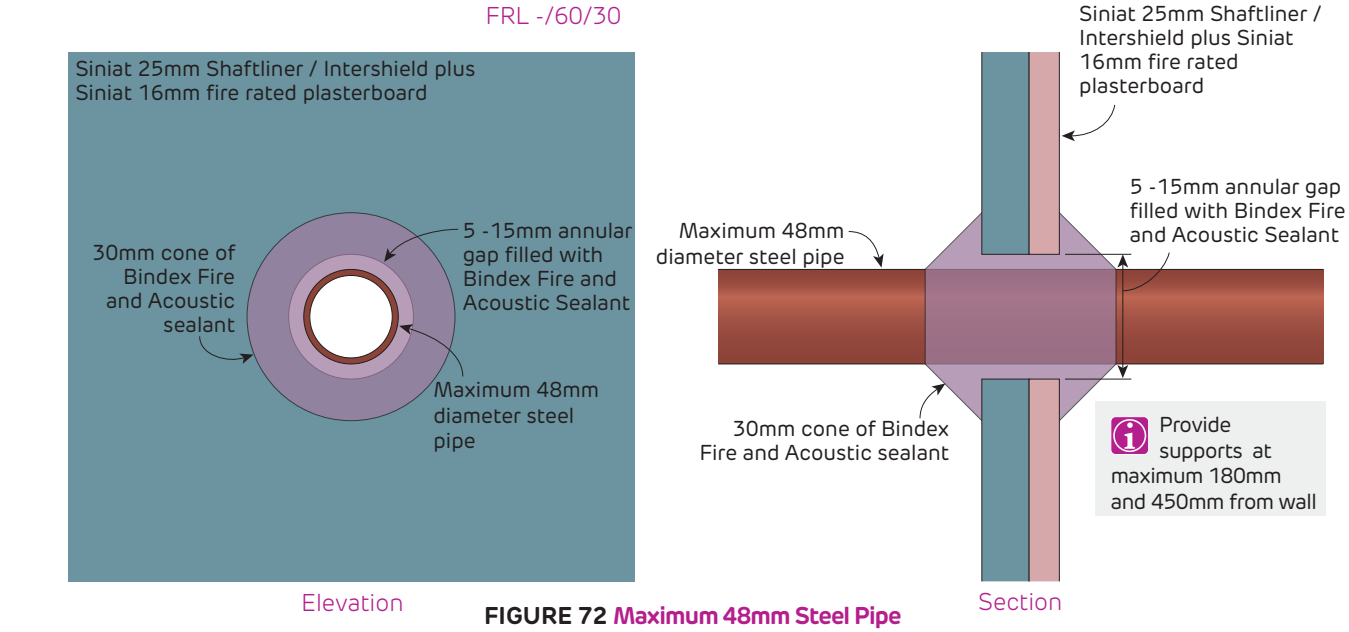


FIGURE 72 Maximum 48mm Steel Pipe
FRL -/60/30

Fire Rated
Interhome High-Rise Penetration Details

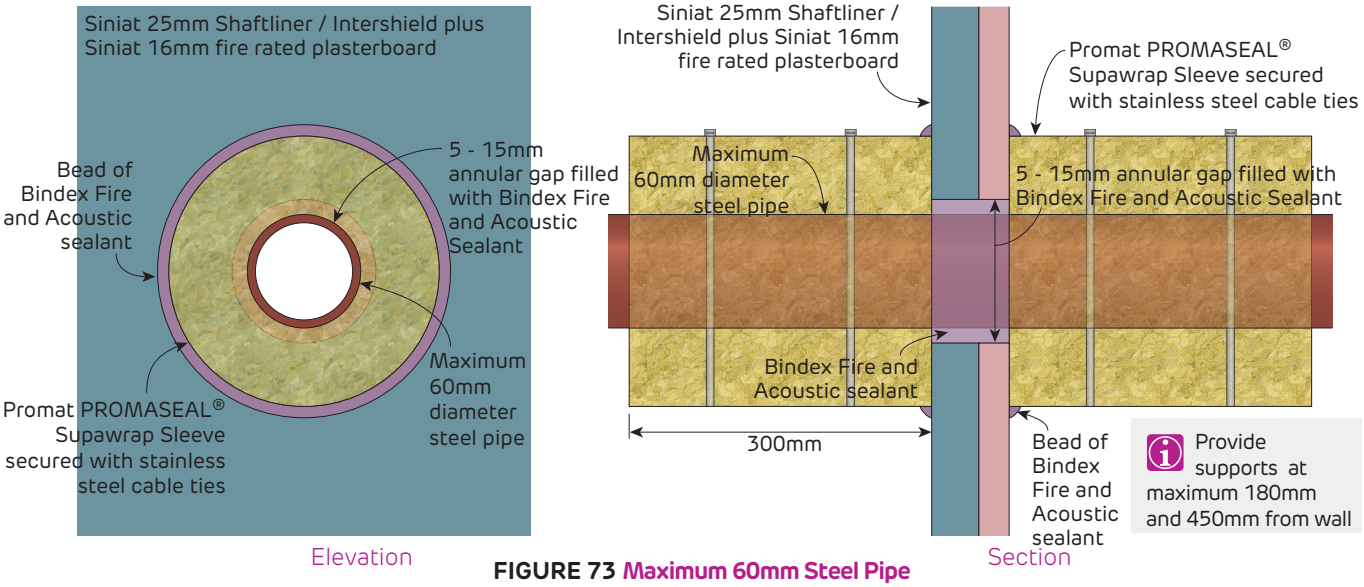


FIGURE 73 Maximum 60mm Steel Pipe
FRL -/60/60

Fire Rated
Interhome High-Rise Penetration Details

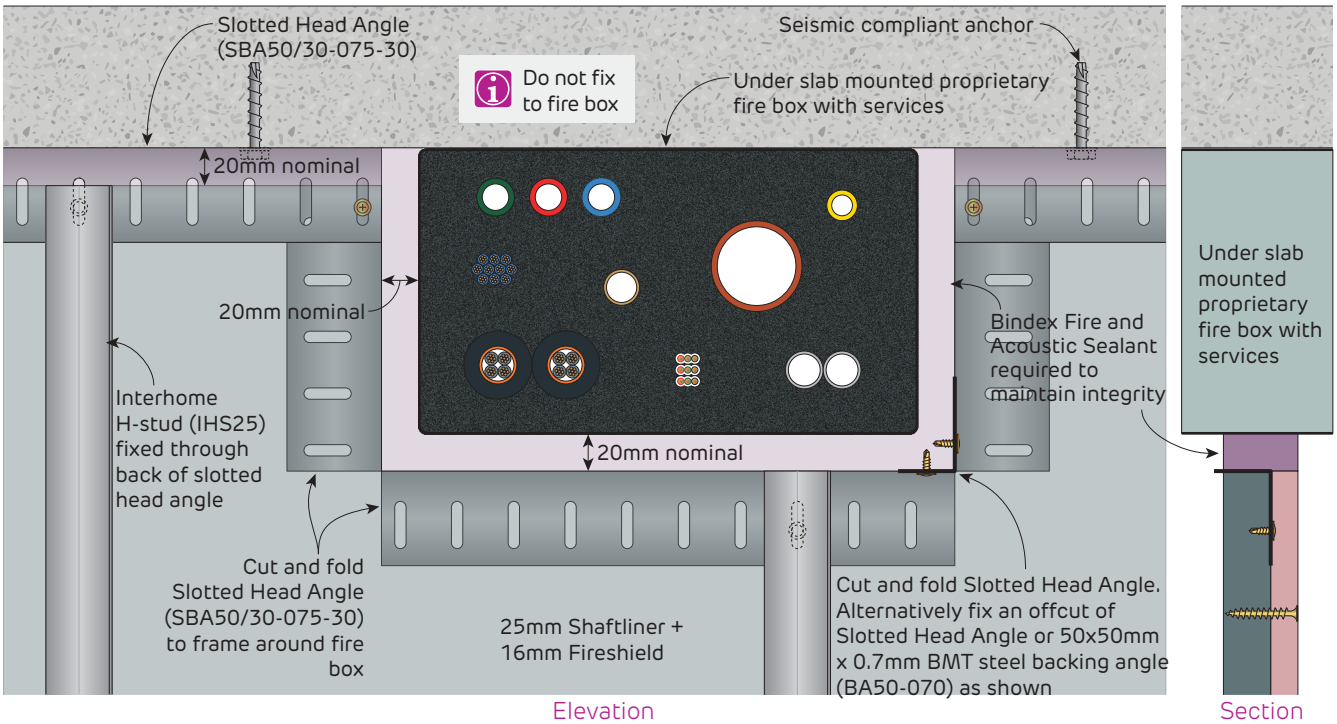
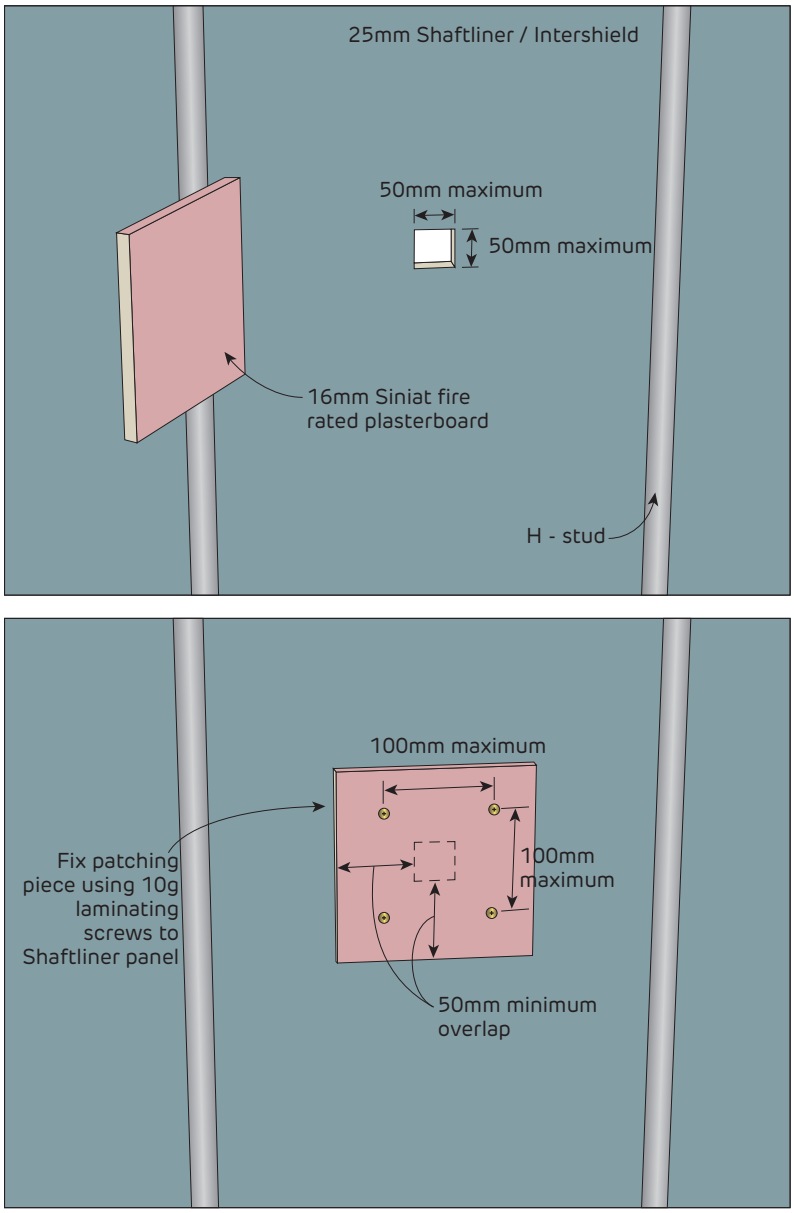


FIGURE 74 Under Slab Mounted Fire Box Detail through Central Fire Barrier

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



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

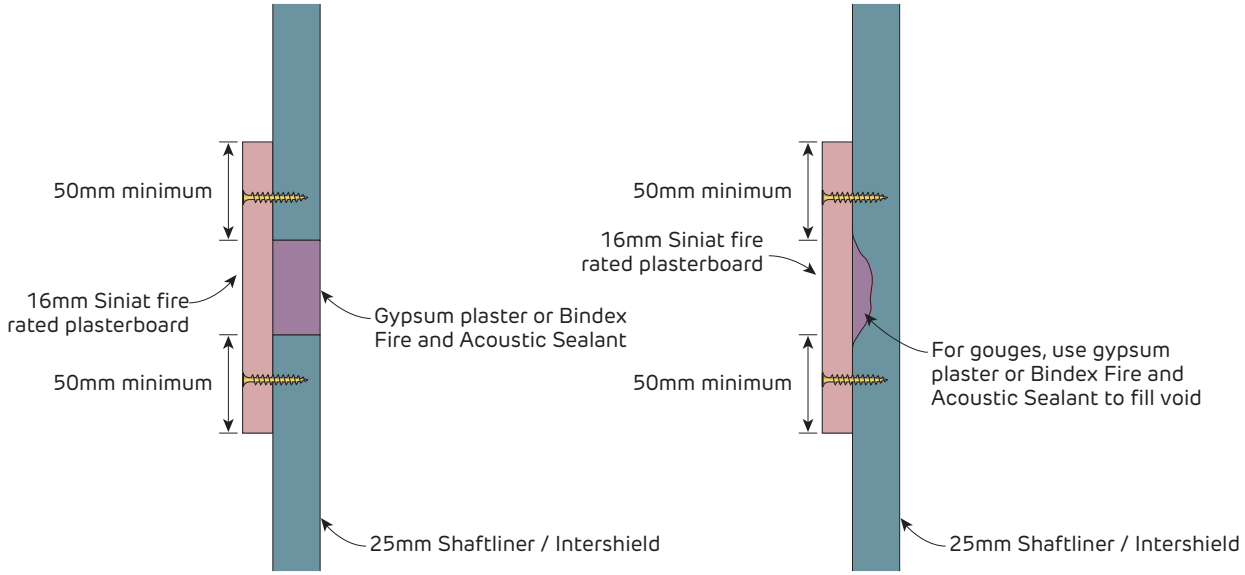
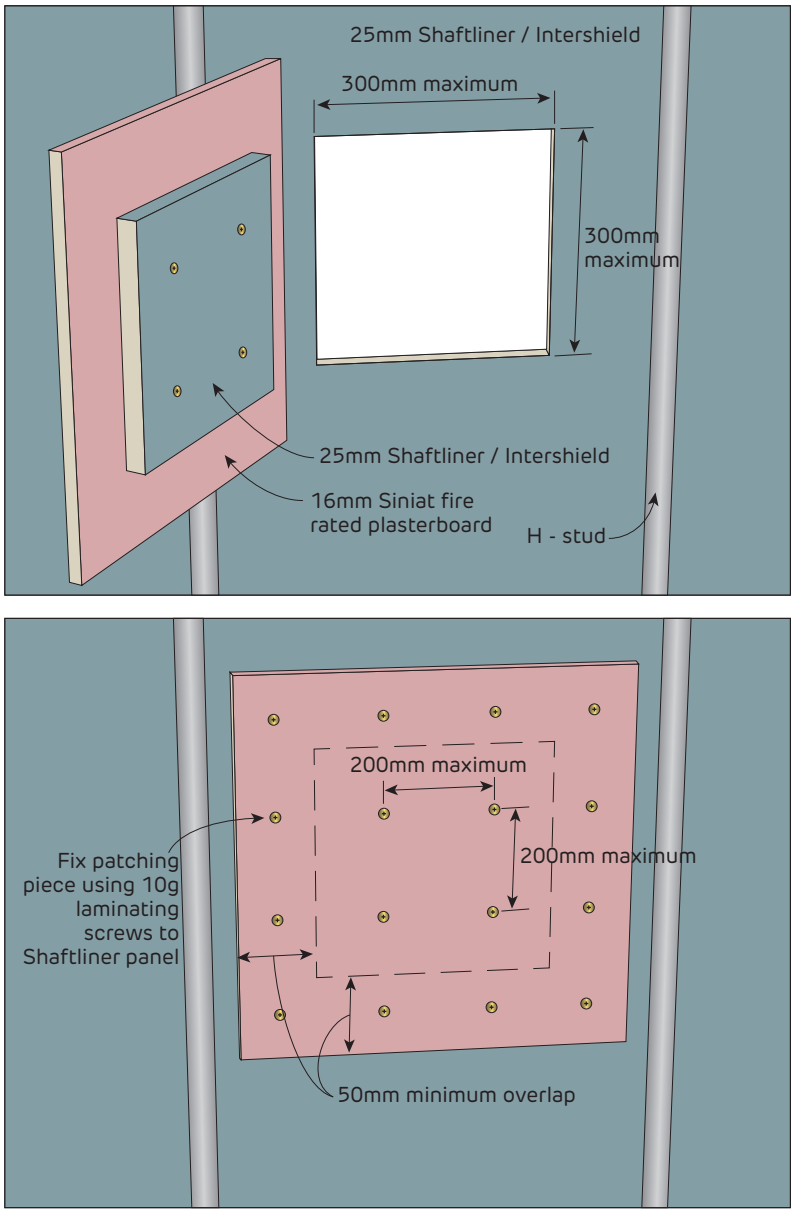


FIGURE 75 Fire Rated Patch for Shaftliner panel
Section - FRL -/60/60

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



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

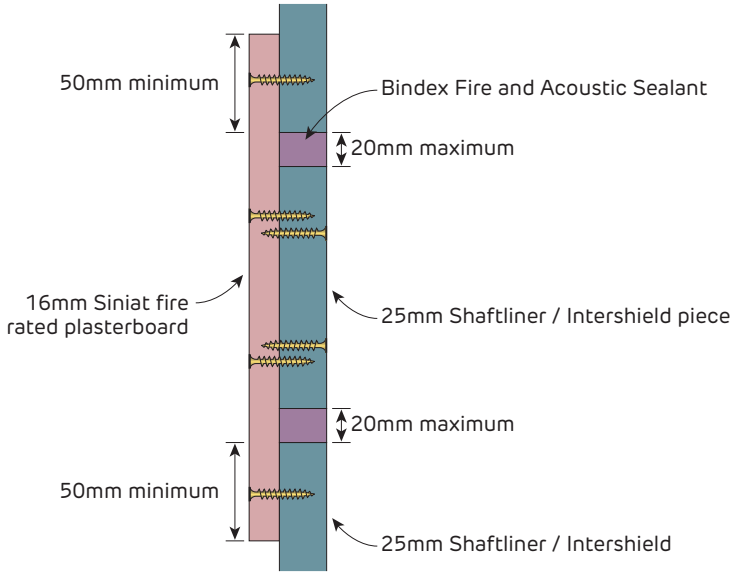
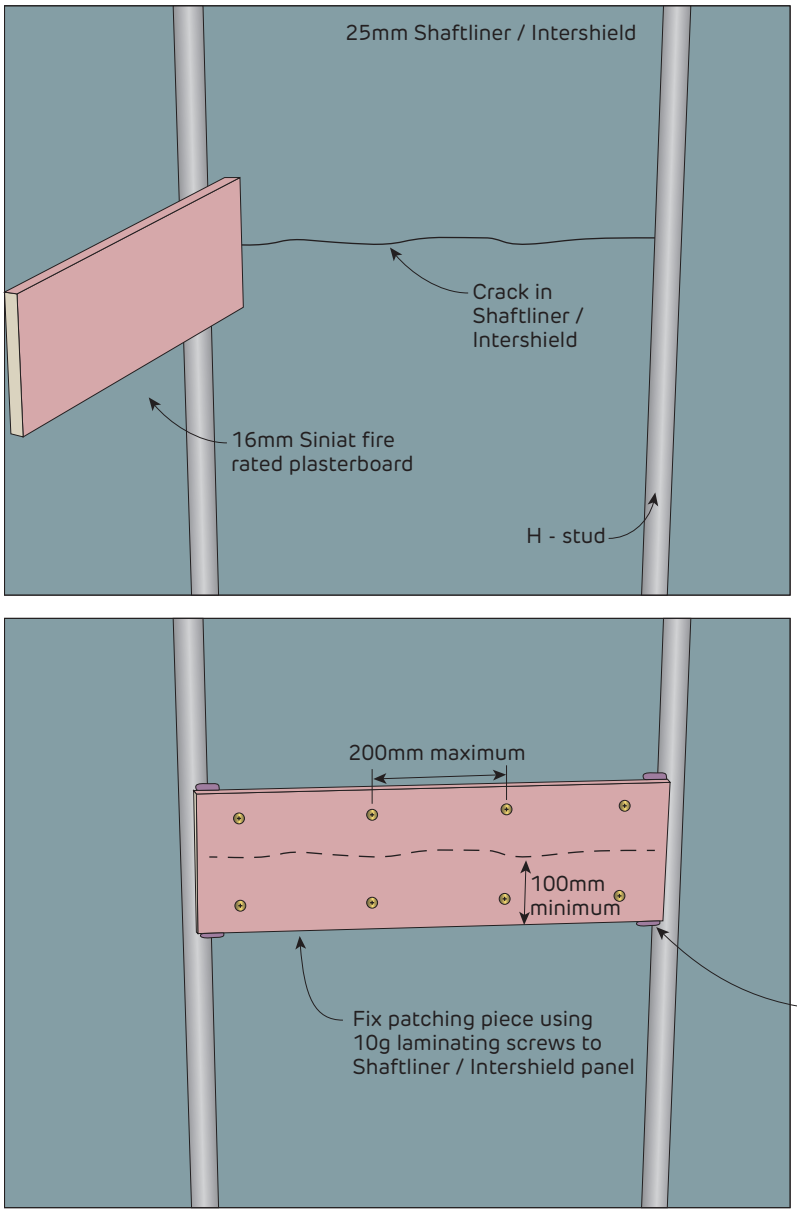


FIGURE 76 Fire Rated Patch for Shaftliner panel
Section - FRL -/60/60

Fire Rated
Patching of Central Fire Barrier - Crack in Shaftliner



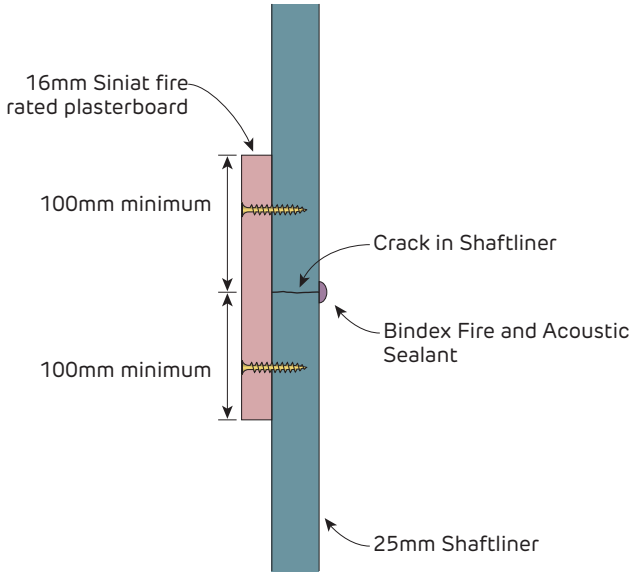


FIGURE 77 Fire Rated Patch for Shaftliner panel
Section - FRL -/60/60