siniat

interhome

FRL 90/90/90 Supplement

Separating Wall System for Low-rise
Multi-Residential Construction

etex inspiring ways of living

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Version 4
February 2025

About Siniat

Siniat is one of the Etex Group's flagship commercial brands, and one of the leading global manufacturers of interior and exterior materials for drywall construction.

In Australia, Etex has Siniat manufacturing facilities located in Sydney, Melbourne, Bundaberg and Brisbane. Etex supplies Siniat branded plasterboard, compounds, cornice, steel profiles and associated products and systems to the Australian building industry through its national distribution network.

Siniat's comprehensive range of quality wall and ceiling lining products are developed with specific characteristics to enhance performance and provide fire, water, acoustic and decorative solutions to all construction projects.

The Siniat team is committed to providing excellent technical service and sales support to help with innovative solutions for your next project.

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Contents

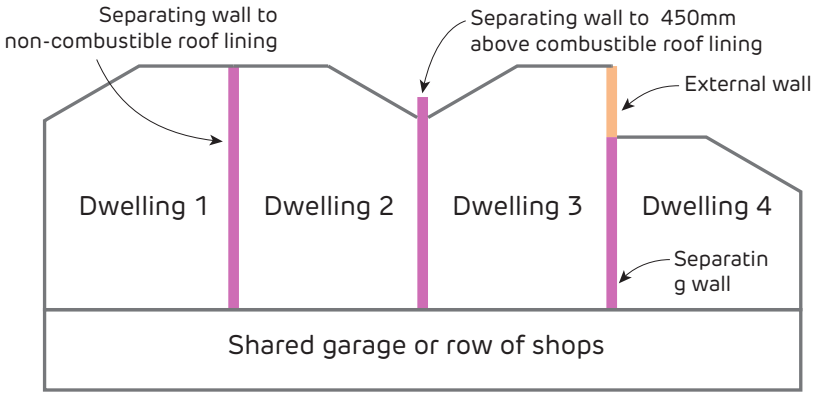


FIGURE 1 Suitability of FRL 90/90/90 Interhome Wall
Section

This **inter**home FRL 90/90/90 Supplement is suitable for load bearing walls with 90 minutes fire protection supporting non-fire rated floors and roofs. The **inter**home wall starts at the ground slab or other fire rated support and finishes at the roof.

interhome systems consist of twin timber or steel framed walls with a central fire barrier of 25mm **shaft**liner or **inter**shield encased in steel H-studs from ground to roof. A layer of 16mm **fire**shield or **multi**shield is then fixed to the 25mm **shaft**liner or **inter**shield over the entire wall. On the opposite side, an additional layer of 16mm **fire**shield or **multi**shield is fixed to the 25mm **shaft**liner or **inter**shield at suspended floors and in the roof cavity. The layers of 16mm **fire**shield or **multi**shield are simply fixed to the **shaft**liner or **inter**shield using laminating screws.

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 dwelling is occupied.

Application

interhome FRL 90/90/90 walls are ideally suited to load bearing walls separating sole occupancy units in Class 2, Type A Construction such as duplexes and townhouses which are built over a shared garage or row of shops.

Features

- Fire Resistance Level 90/90/90
- Sound insulation performance of separating wall of Rw + Ctr 50 plus discontinuous construction
- Sound insulation performance for soil and waste pipes of Rw + Ctr 25 and Rw + Ctr 40.
- Provision for the installation in wet areas.

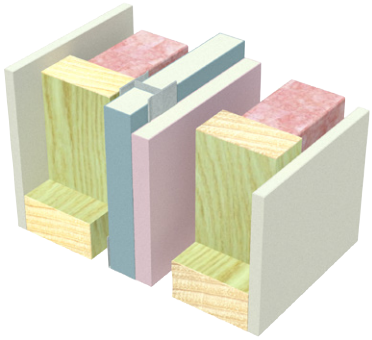
*WARNING: The **inter**home system is not suitable for use in buildings with tenancies separated by timber or steel framed floors that require a Fire Resistance Level such as buildings where sole occupancy units are located above one another.

Refer to the **inter**home high-rise manual for **inter**home wall systems installed between concrete slabs and for ceiling treatment options on the top floor of a Class 2 building with a framed roof.

Refer to the **inter**home manual for load bearing **inter**home wall systems with an FRL of 60/60/60 where the wall starts at the ground slab or other fire rated support and finishes at the roof, such as Class 1 duplexes and townhouses

Timber Systems

IHW20



- 10mm **masta**shield or **water**shield
- Timber stud framing with insulation
- Minimum 20mm air-gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs plus 1 layer of 16mm **fire**shield or **multi**shield
- Minimum 20mm air-gap
- Timber stud framing with insulation
- 10mm **masta**shield or **water**shield

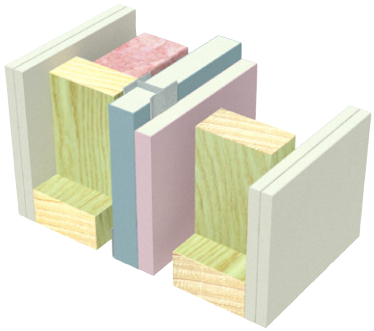
Fire Resistance Level

90/90/90
rated for the wall frame opposite to fire attack

Fire Report FC11661

Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	
Cavity size = stud size + air-gap		2 x Pink® Batts Wall R2.0	Acoustic Report Day Design 4738-14 Note: Impact Sound Resistant - Discontinuous Construction
110 (eg: 70 stud + 40 gap)	281	64 (**50**)	
110 (eg: 90 stud + 20 gap)			

IHW21



- 2 layers of 10mm **masta**shield or **water**shield
- Timber stud framing with insulation
- Minimum 20mm air-gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs plus 1 layer of 16mm **fire**shield or **multi**shield
- Minimum 20mm air-gap
- Timber stud framing
- 2 layers of 10mm **masta**shield or **water**shield

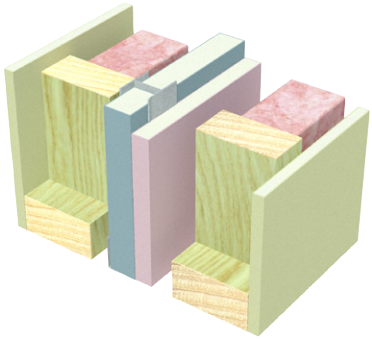
Fire Resistance Level

90/90/90
rated for the wall frame opposite to fire attack

Fire Report FC11661

Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	
Cavity size = stud size + air-gap		2 x Pink® Batts Wall R1.5	Acoustic Report Day Design 4738-14 Note: Impact Sound Resistant - Discontinuous Construction
90 (eg: 70 stud + 20 gap)	261	66 (**52**)	
110 (eg: 90 stud + 20 gap)	301	67 (**52**)	

IHW22



- 10mm **sound**shield or **opal**
- Timber stud framing with insulation
- Minimum 20mm air-gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs plus 1 layer of 16mm **fire**shield or **multi**shield
- Minimum 20mm air-gap
- Timber stud framing with insulation
- 10mm **sound**shield or **opal**

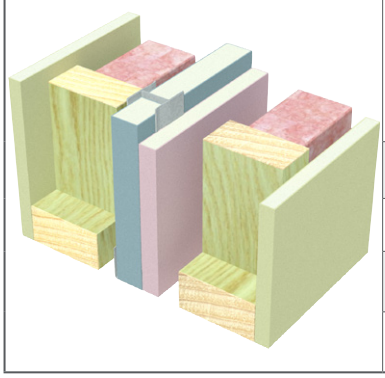
Fire Resistance Level

90/90/90
rated for the wall frame opposite to fire attack

Fire Report FC11661

Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	
Cavity size = stud size + air-gap		2 x Pink® Batts Wall R1.5	Acoustic Report Day Design 4738-14 Note: Impact Sound Resistant - Discontinuous Construction
90 (eg: 70 stud + 20 gap)	241	69 (**55**)	
110 (eg: 90 stud + 20 gap)	281	70 (**55**)	

IHW23



- 13mm **sound**shield
- Timber stud framing with insulation
- Minimum 20mm air-gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs plus 1 layer of 16mm **fire**shield or **multi**shield
- Minimum 20mm air-gap
- Timber stud framing with insulation
- 13mm **sound**shield

Fire Resistance Level

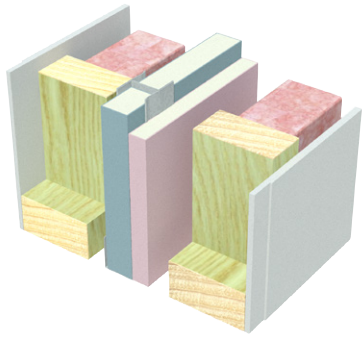
90/90/90
rated for the wall frame opposite to fire attack

Fire Report FC11661

Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	
Cavity size = stud size + air-gap		2 x Pink® Batts Wall R1.5	Acoustic Report Day Design 4738-14 Note: Impact Sound Resistant - Discontinuous Construction
90 (eg: 70 stud + 20 gap)	247	70 (**55**)	
110 (eg: 90 stud + 20 gap)	287	70 (**55**)	

INTERHOME FRL 90/90/90 SUPPLEMENT

IHW24



- 6mm Villabaord™
- Timber stud framing with insulation
- Minimum 20mm air-gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs plus 1 layer of 16mm **fire**shield or **multi**shield
- Minimum 20mm air-gap
- Timber stud framing with insulation
- 6mm Villabaord™

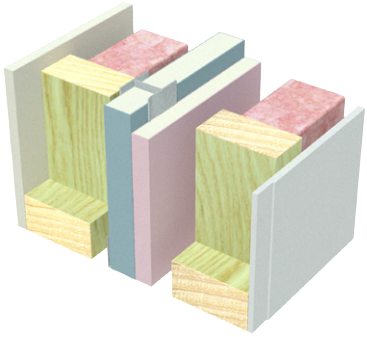
Fire Resistance Level

90/90/90
rated for the wall frame opposite to fire attack

Fire Report FC11661

Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	
Cavity size = stud size + air-gap		2 x Pink® Batts Wall R1.5	Acoustic Report Day Design 4738-14 Note: Impact Sound Resistant - Discontinuous Construction
90 (eg: 70 stud + 20 gap)	233	69 (**55**)	
110 (eg: 90 stud + 20 gap)	273	70 (**55**)	

IHW44



- 10mm **masta**shield or **water**shield
- Timber stud framing with insulation
- Minimum 20mm air-gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs plus 1 layer of 16mm **fire**shield or **multi**shield
- Minimum 20mm air-gap
- Timber stud framing with insulation
- 6mm Villabaord™

Fire Resistance Level

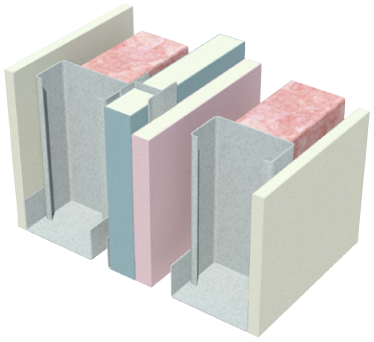
90/90/90
rated for the wall frame opposite to fire attack

Fire Report FC11661

Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	
Cavity size = stud size + air-gap		2 x Pink® Batts Wall R2.0	INSUL v8 Note: Impact Sound Resistant - Discontinuous Construction
110 (eg: 70 stud + 40 gap)	277	67 (**53**)	
110 (eg: 90 stud + 20 gap)			

Steel Systems

IHW30



- 10mm **masta**shield or **water**shield
- Steel stud framing with insulation
- Minimum 20mm air-gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs plus 1 layer of 16mm **fire**shield or **multi**shield
- Minimum 20mm air-gap
- Steel stud framing with insulation
- 10mm **masta**shield or **water**shield

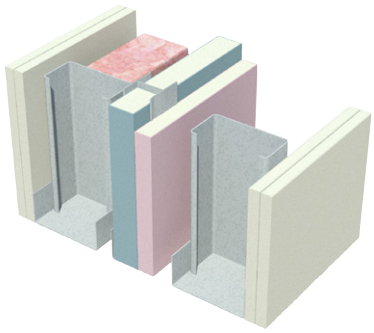
Fire Resistance Level

90/90/90
rated for the wall frame opposite to fire attack

Fire Report FC11661

Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	
Cavity size = stud size + air-gap		2 x Pink® Batts Wall R2.0	Acoustic Report Day Design 4738-14 Note: Impact Sound Resistant - Discontinuous Construction
110 (eg: 70 stud + 40 gap)	281	64 (**50**)	
110 (eg: 90 stud + 20 gap)			

IHW31



- 2 layers of 10mm **masta**shield or **water**shield
- Steel stud framing with insulation
- Minimum 20mm air-gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs plus 1 layer of 16mm **fire**shield or **multi**shield
- Minimum 20mm air-gap
- Steel stud framing
- 2 layers of 10mm **masta**shield or **water**shield

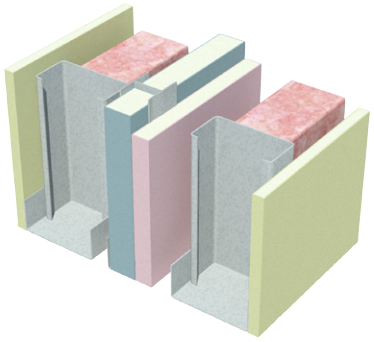
Fire Resistance Level

90/90/90
rated for the wall frame opposite to fire attack

Fire Report FC11661

Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	
Cavity size = stud size + air-gap		1 x Pink® Batts Wall R1.5	Acoustic Report Day Design 4738-14 Note: Impact Sound Resistant - Discontinuous Construction
90 (eg: 70 stud + 20 gap)	261	64 (**52**)	
110 (eg: 90 stud + 20 gap)	301	65 (**52**)	

IHW32



- 10mm **sound**shield or **opal**
- Steel stud framing with insulation
- Minimum 20mm air-gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs plus 1 layer of 16mm **fire**shield or **multi**shield
- Minimum 20mm air-gap
- Steel stud framing with insulation
- 10mm **sound**shield or **opal**

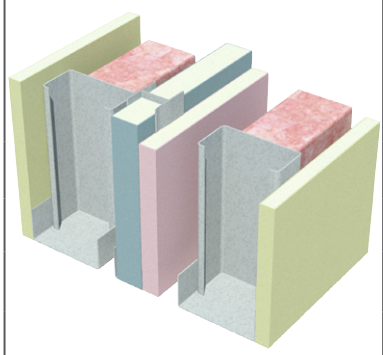
Fire Resistance Level

90/90/90
rated for the wall frame opposite to fire attack

Fire Report FC11661

Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	
Cavity size = stud size + air-gap		2 x Pink® Batts Wall R1.5	Acoustic Report Day Design 4738-14 Note: Impact Sound Resistant - Discontinuous Construction
90 (eg: 70 stud + 20 gap)	241	67 (**55**)	
110 (eg: 90 stud + 20 gap)	281	68 (**55**)	

IHW33



- 13mm **sound**shield
- Steel stud framing with insulation
- Minimum 20mm air-gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs plus 1 layer of 16mm **fire**shield or **multi**shield
- Minimum 20mm air-gap
- Steel stud framing with insulation
- 13mm **sound**shield

Fire Resistance Level

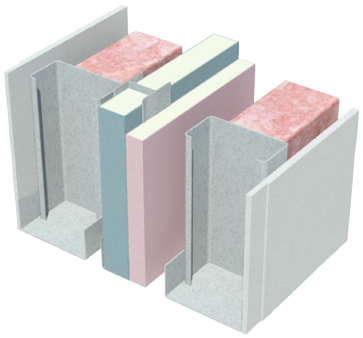
90/90/90
rated for the wall frame opposite to fire attack

Fire Report FC11661

Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	
Cavity size = stud size + air-gap		2 x Pink® Batts Wall R1.5	Acoustic Report Day Design 4738-14 Note: Impact Sound Resistant - Discontinuous Construction
90 (eg: 70 stud + 20 gap)	247	70 (**55**)	
110 (eg: 90 stud + 20 gap)	287	70 (**55**)	

INTERHOME FRL 90/90/90 SUPPLEMENT

IHW34



- 6mm Villabaord™
- Steel stud framing with insulation
- Minimum 20mm air-gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs plus 1 layer of 16mm **fire**shield or **multi**shield
- Minimum 20mm air-gap
- Steel stud framing with insulation
- 6mm Villabaord™

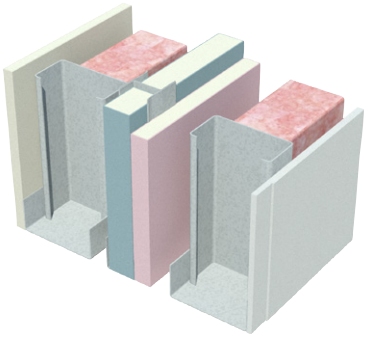
Fire Resistance Level

90/90/90
rated for the wall frame opposite to fire attack

Fire Report FC11661

Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	
Cavity size = stud size + air-gap		2 x Pink® Batts Wall R1.5	Acoustic Report Day Design 4738-14 Note: Impact Sound Resistant - Discontinuous Construction
90 (eg: 70 stud + 20 gap)	233	68 (**55**)	
110 (eg: 90 stud + 20 gap)	273	69 (**55**)	

IHW54



- 10mm **masta**shield or **water**shield
- Steel stud framing with insulation
- Minimum 20mm air-gap
- 25mm **shaft**liner or **inter**shield encased in **inter**home H-studs plus 1 layer of 16mm **fire**shield or **multi**shield
- Minimum 20mm air-gap
- Steel stud framing with insulation
- 6mm Villabaord™

Fire Resistance Level

90/90/90
rated for the wall frame opposite to fire attack

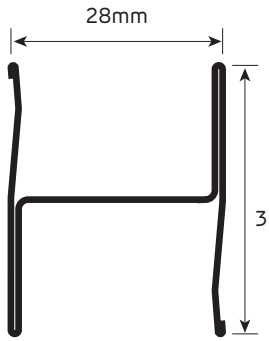
Fire Report FC11661

Minimum Cavity On Both Sides (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)	
Cavity size = stud size + air-gap		2 x Pink® Batts Wall R2.0	INSUL v8 Note: Impact Sound Resistant - Discontinuous Construction
110 (eg: 70 stud + 40 gap)	277	67 (**53**)	
110 (eg: 90 stud + 20 gap)			

Components

Steel Profiles

> Siniat 25mm **inter**home H-stud



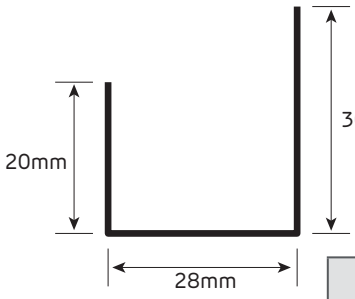
0.55mm BMT
G300
AM125 Zincalume® steel

Use 3m H-stud for 3m Shaftliner / Intershield.
Use 3.6m H-stud for 3.6m Shaftliner / Intershield.

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

FIGURE 2 interhome H-stud
Profile

> Siniat J-Track



0.5mm BMT
G300
AM125 Zincalume® steel

Product Code	Length (mm)
T28-30	3000

FIGURE 3 J-Track
Profile

Plasterboard

Central Fire Barrier

> Siniat 25mm **shaft**liner or **inter**shield

Wall Linings

> Siniat **masta**shield
> Siniat **sound**shield
> Siniat **opal**
> Siniat **water**shield
> Siniat **fire**shield
> Siniat **multi**shield
> James Hardie Villaboard™

Wall Insulation

> Fletcher Pink Batts® Wall Insulation or Fletcher Firmasoft™ Wall Insulation (glasswool)
> Polyester wall insulation

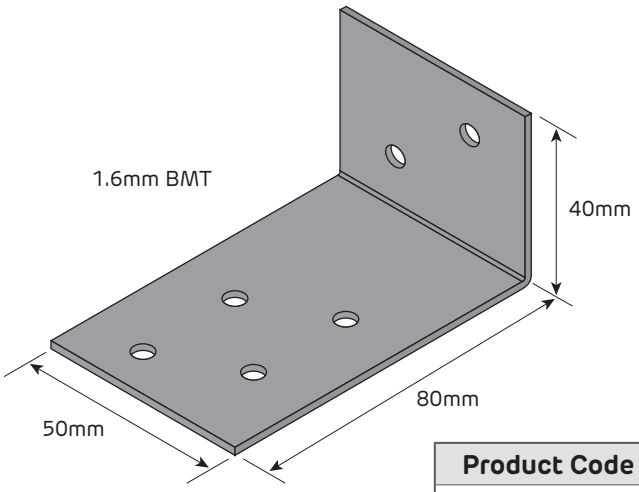
Fire Rated Mineral Wool

> Fletcher Fire Stop Party Wall Batts

Sealant

> **bindex** fire and acoustic sealant

Aluminium Clip



Product Code
CIH-L

FIGURE 4 interhome aluminium clip
Isometric

Fasteners

Refer to 'Framing' for information on fasteners use in the **inter**home Wall System.

General Requirements

Use a central fire barrier of **inter**home H-studs and 25mm **shaft**liner or **inter**shield and 16mm **fire**shield or **multi**shield fixed using laminating screws.
Adequately prop the central fire barrier until the dwelling is enclosed for wind loading purposes.
Protect plasterboard in the central fire barrier from water and excessive moisture until the dwelling is enclosed to prevent mould growth and degradation of the plasterboard. Use **inter**shield and **multi**shield for improved mould and water resistance during construction.
interhome aluminium clips (CIH-L) 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 dwelling 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 wall frames. A gap of at least 25mm is recommended.
Control joints are not required in the central fire barrier.
Prevent contact between services in the wall cavities and 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.
Pack any gaps between the top of the central fire barrier and the underside of the roof covering with Fire Stop Party Wall Batts to maintain the 90 minute fire rating.

> Refer to the **inter**home high-rise guide for non-load bearing FRL -/60/60 walls in slab to slab buildings.

> Refer to the **inter**home Class 1 guide for load bearing walls with an FRL of 60/60/60 for separating Class 1 dwellings from ground to roof.

Fire Resistance

All systems in this section are displayed with an FRL of 90/90/90 to indicate that they support 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 90 minutes.
All **inter**home systems have a Fire Resistance Level (FRL) assigned by an Accredited Testing Laboratory in accordance with Section A5.2 of Volume One of the *National Construction Code* (NCC) and *AS 1530.4 Fire resistance tests for elements of construction*.
In the event of a fire, the **inter**home aluminium clips on the fire side are designed to melt and allow the frame to collapse, leaving the central fire barrier attached to the unaffected frame on the non-fire side.
The outer wall lining and cavity insulation of any **inter**home 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 **inter**home system to another.

Sound Insulation

Services installed in one cavity have an acoustic rating to the other side of the **inter**home 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 system is used on one side of a different **inter**home system, the acoustic rating is the lower of the two provided that the central fire barrier and stud cavity sizes are the same.

Framing

J-Tracks: > Position on the slab or footing 20mm minimum (25mm recommended) from the existing frame of the dwelling > Fix to the concrete at 600mm maximum centres and 150mm maximum from track ends using concrete anchors > Fix to both vertical ends of the central fire barrier. Screw fix vertical J-Track to horizontal J-Tracks > Use back-to-back at the top of each row to form the top track and also the bottom track for the next level. Screw fix the back-to-back J-Tracks at 600mm maximum centres and 150mm from ends
interhome H-studs: > Friction fit into bottom J-Track and push down completely. They are not required to be fastenered to the top or bottom J-Tracks > Space at 600mm centres. Alternate between 25mm **shaft**liner / **inter**shield panels and H-Studs until the row is complete > Use 3m H-Studs with 3m **shaft**liner / **inter**shield panels and 3.6m H-Studs with 3.6m **shaft**liner / **inter**shield panels.
Leave a gap of 20mm minimum between the central fire barrier and both of the dwelling's frames.
Maximum height is 12m for the central fire barrier
Fix **inter**home aluminium clips to both sides of each H-stud and vertical J-Track: > At the floor / ceiling levels on top or bottom plates > Within 300mm of the top of the central fire barrier > At maximum 3m intervals for 3m **shaft**liner / **inter**shield panels > At maximum 3.6m intervals for 3.6m **shaft**liner / **inter**shield panels > Within 700mm from the top of H-Studs at a horizontal joint in the **shaft**liner / **inter**shield (back-to-back J-Track) [Refer to Details].
It is critical to correctly fix the **inter**home aluminium clips only in the locations listed above to comply with the discontinuous construction requirements of the NCC.

> Substituting **inter**home aluminium clips will significantly effect system performance
> Plumbing and electrical services must not protrude beyond the face of the stud

Fasteners

Fixing Aluminium Clips	Fastener
interhome aluminium clips to steel (2 screws)	8g x 16mm screw[2]
interhome aluminium clips to steel H-studs through 16mm fireshield /multishield (2 screws)	6g x 30mm screw[2]
interhome aluminium clips to softwood timber (2 fasteners)	6g x 25mm screw or 2.8 x 30mm galvanised nail
Fixing J-Track	**Fastener**
Back to back J-tracks	8g x 16mm screw[2]
Laminating	**Fastener**
Laminating fireshield / multishield to shaftliner / intershield	10g x 38mm coarse thread laminating screws[2]

1. Fasteners gauges and lengths are minimums. Screws may be fine or coarse thread and must comply with Australian Standard 3566.1.
2. Maximum screw length is 50mm

Plasterboard Layout

Central Fire Barrier
Build the central fire barrier up to the underside of a non-combustible roof lining or 450mm above a combustible roof.
Additional 16mm Fireshield / Multishield
Laminate an additional 16mm fireshield or multishield to the central fire barrier in the following locations: > At floor joists to 150mm above floor level > 150mm below ceilings > Roof space > Parapets

Plasterboard Fixing

The shaftliner / intershield of the central fire barrier is friction fit into the interhome H-Stud and J-Track, no screws are required.
Install internal linings with either the Fastener and Adhesive method or the Fastener Only method. Both methods may be used to achieve the fire rating for the interhome system.

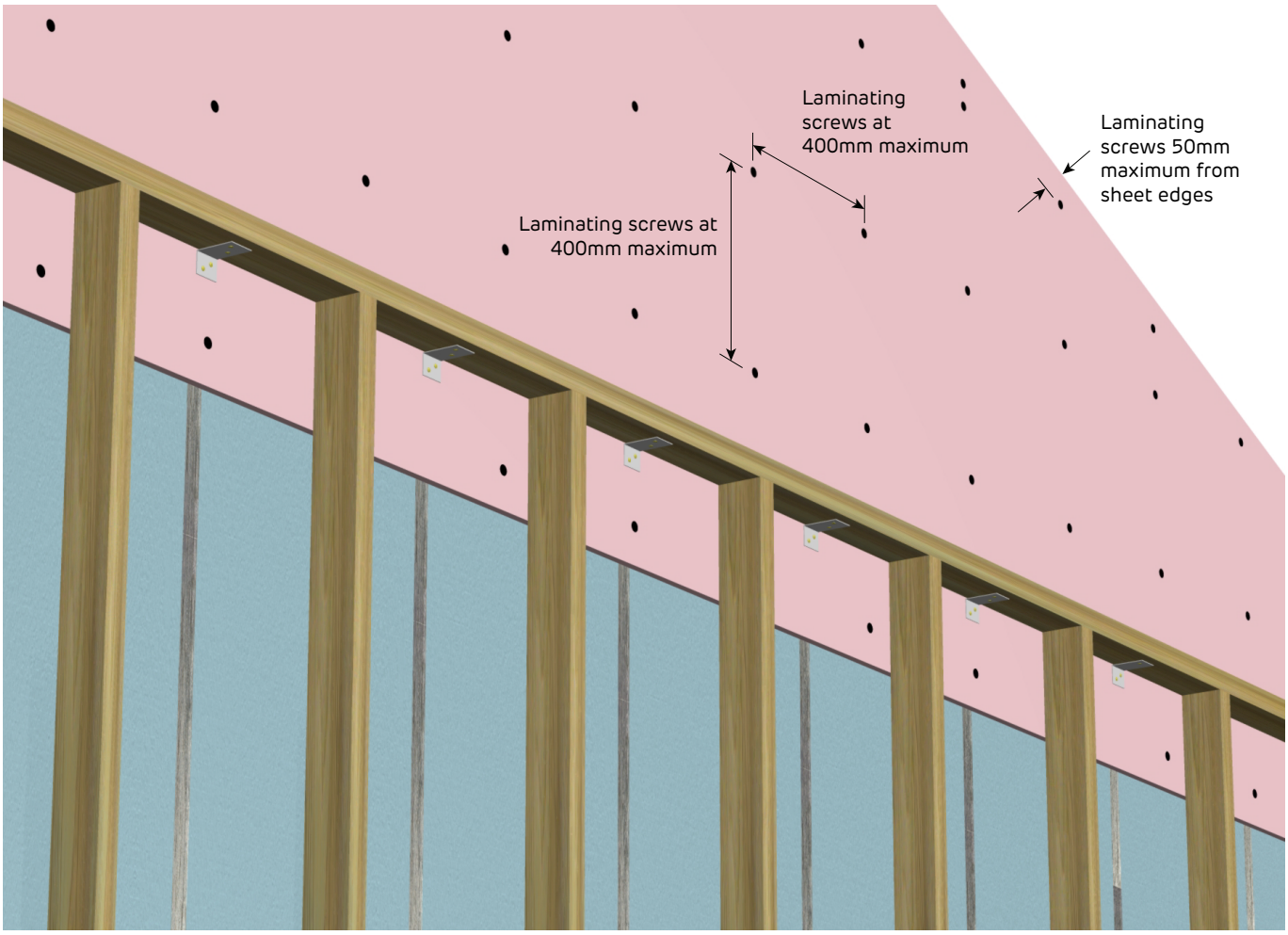


FIGURE 5 **Fire Rated 1 Layer of 16mm Fireshield or Multishield**
Laminating Screw Method

Fixing	Laminating screw method using 10g x 38mm laminating screw
Sheet Layout	Horizontal or Vertical
Recessed Edges and Butt Joints	Fix screws 10 - 50mm from sheet edges
Field	Laminate to central fire barrier at 400 x 400mm maximum centres
Fire Sealant	Use **bindex** fire and acoustic sealant on any gaps to maintain integrity. **fire**shield / **multi**shield that has been touch fitted (no gaps) does not need to have fire sealant applied to joints. [Refer to Details]
Jointing	No plaster jointing required. Use **bindex** fire and acoustic sealant on any gaps up to 20mm wide.

Intershield and Multishield

intershield and **multi**shield are plasterboards that have been formulated to resist sound and fire as well as providing enhanced water and mould resistance. They are suitable for use in **inter**home systems where an FRL (Fire Resistance Level) and sound insulation rating are required. **inter**shield and **multi**shield have recycled blue liner paper.
The mould resistance technology used in **inter**shield and **multi**shield is enhanced by a water resistant additive. Together these unique features dramatically reduce mould growth under severe conditions.

Fire Rated
Interhome Wall Base Details

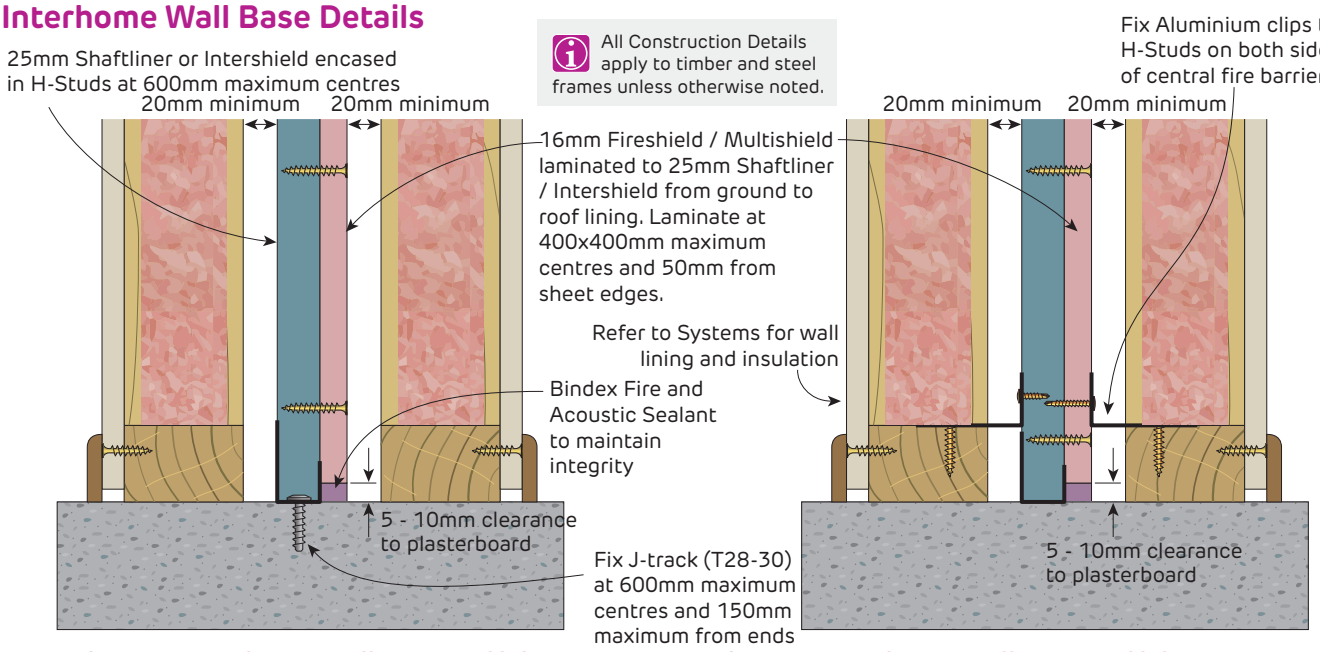


FIGURE 6 Interhome Wall Base to Slab
FRL 90/90/90
Section

FIGURE 7 Interhome Wall Base to Slab - Alternate Detail
FRL 90/90/90
Section

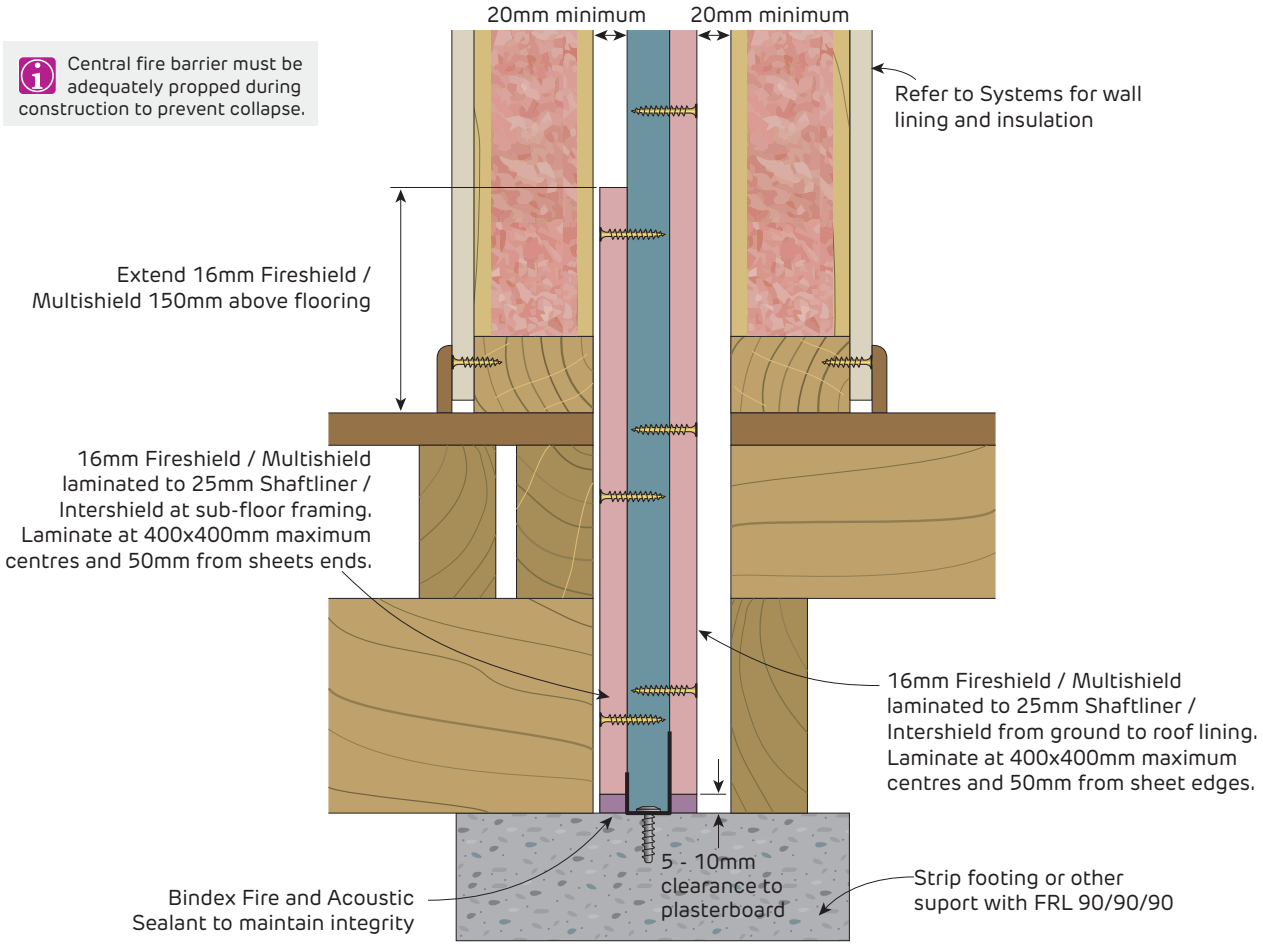


FIGURE 8 Suspended Ground Floor
FRL 90/90/90
Section

Fire Rated
Interhome Wall Base with Slab Step Down

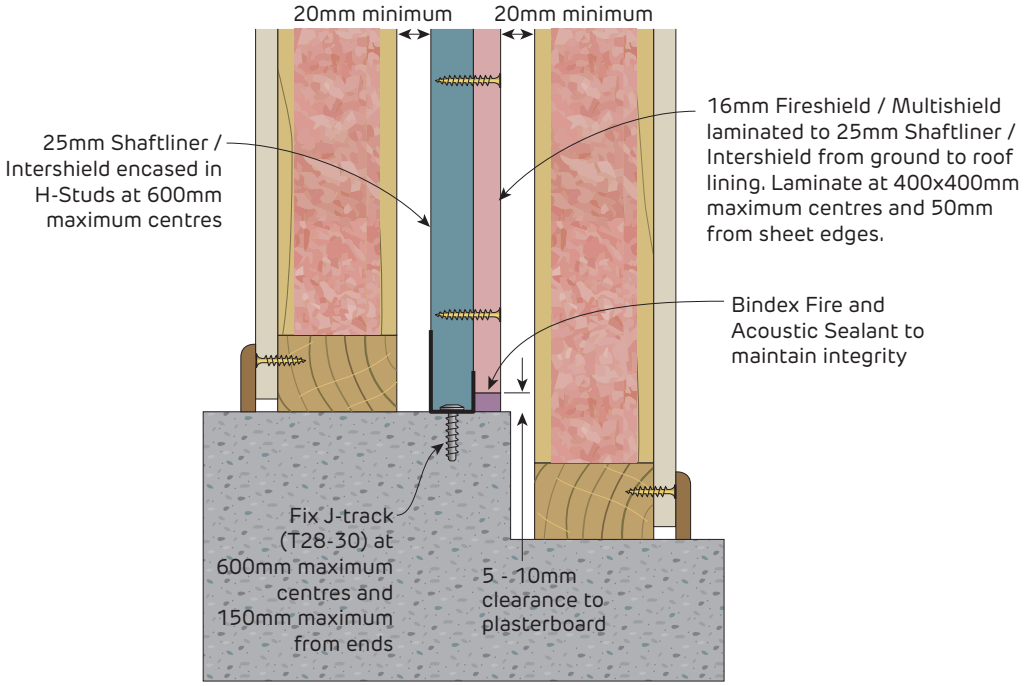


FIGURE 9 Interhome Wall Base to Slab with Step-Down
FRL 90/90/90
Section

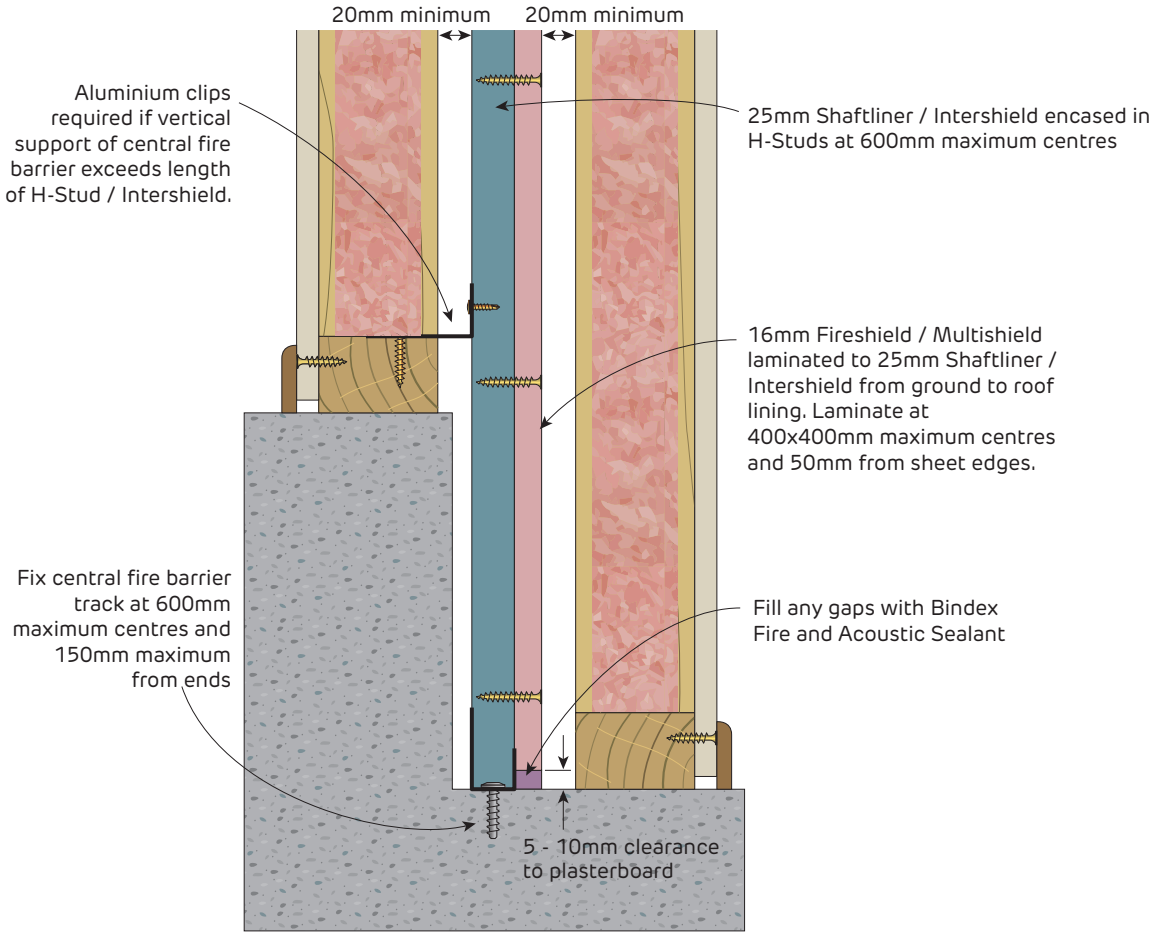


FIGURE 10 Interhome Wall Base to Slab with Larger Step-Down
FRL 90/90/90
Section

Fire Rated
Interhome Wall to Upper Storey Floor

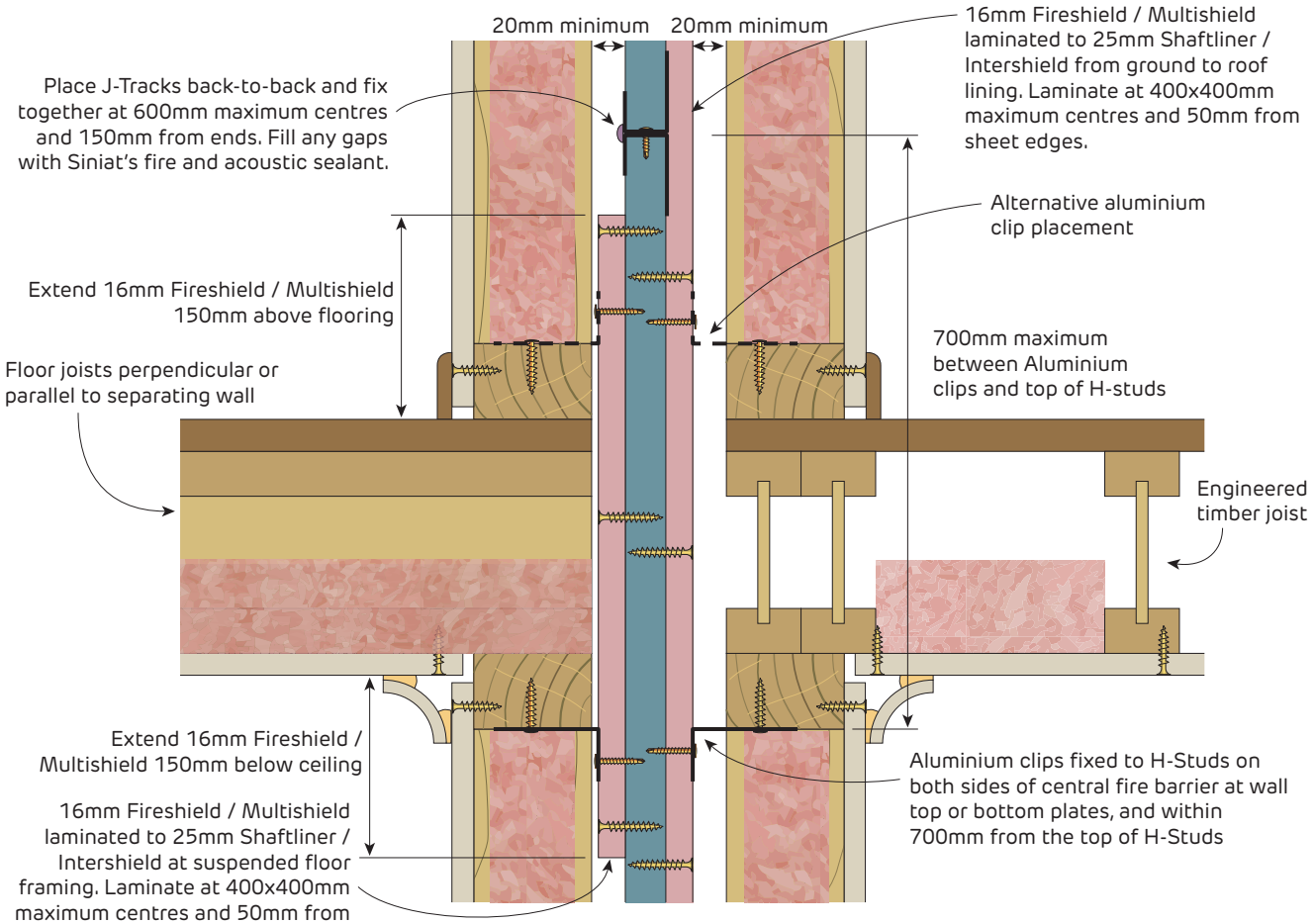


FIGURE 11 Interhome Wall to Upper Storey Floor
FRL 90/90/90
Section

Fire Rated
Interhome Wall to Upper Storey Staggered Floors

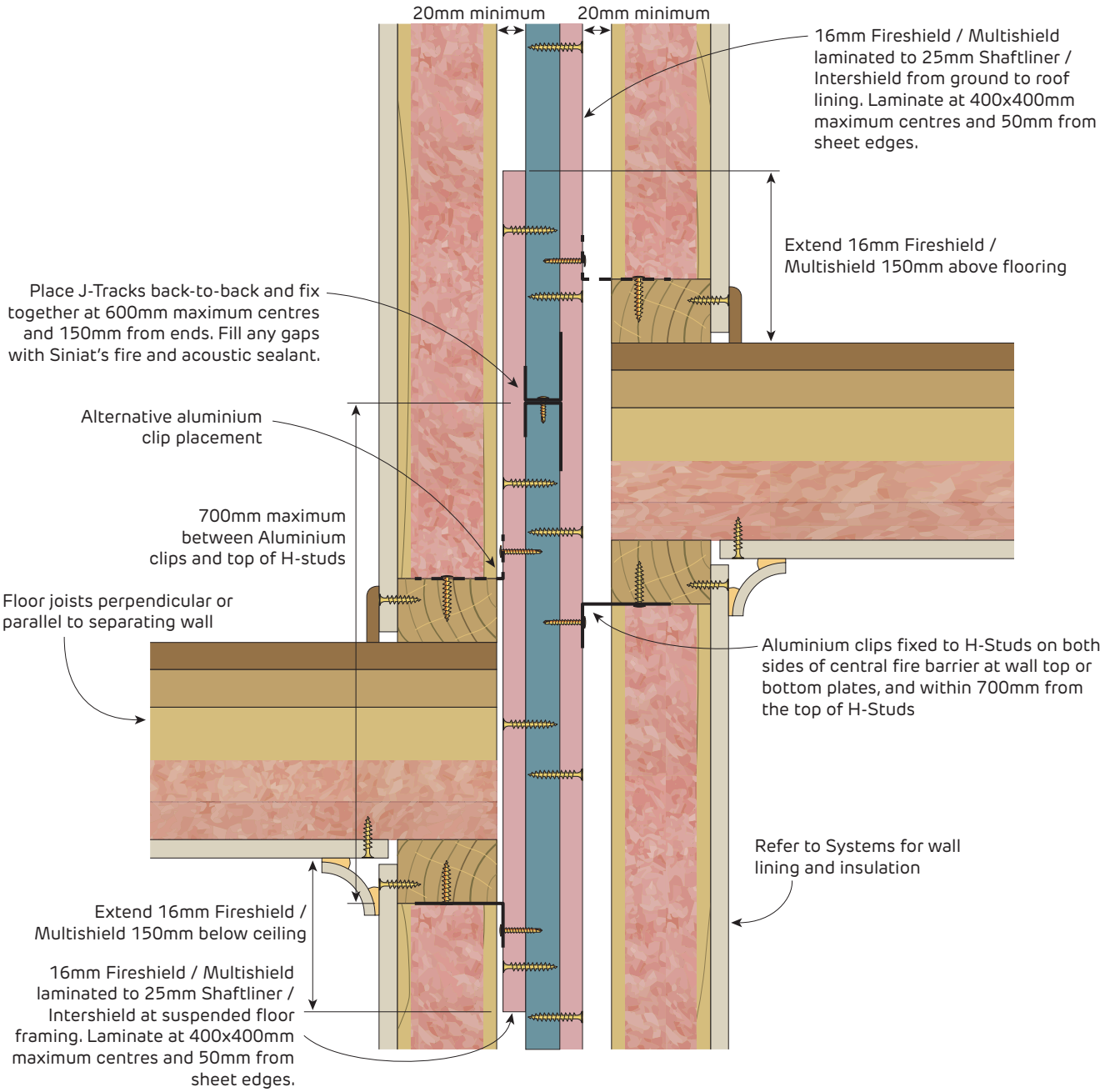


FIGURE 12 Interhome Wall to Upper Storey Staggered Floor
FRL 90/90/90
Section

Fire Rated
Interhome Wall to Upper Storey Staggered Floors

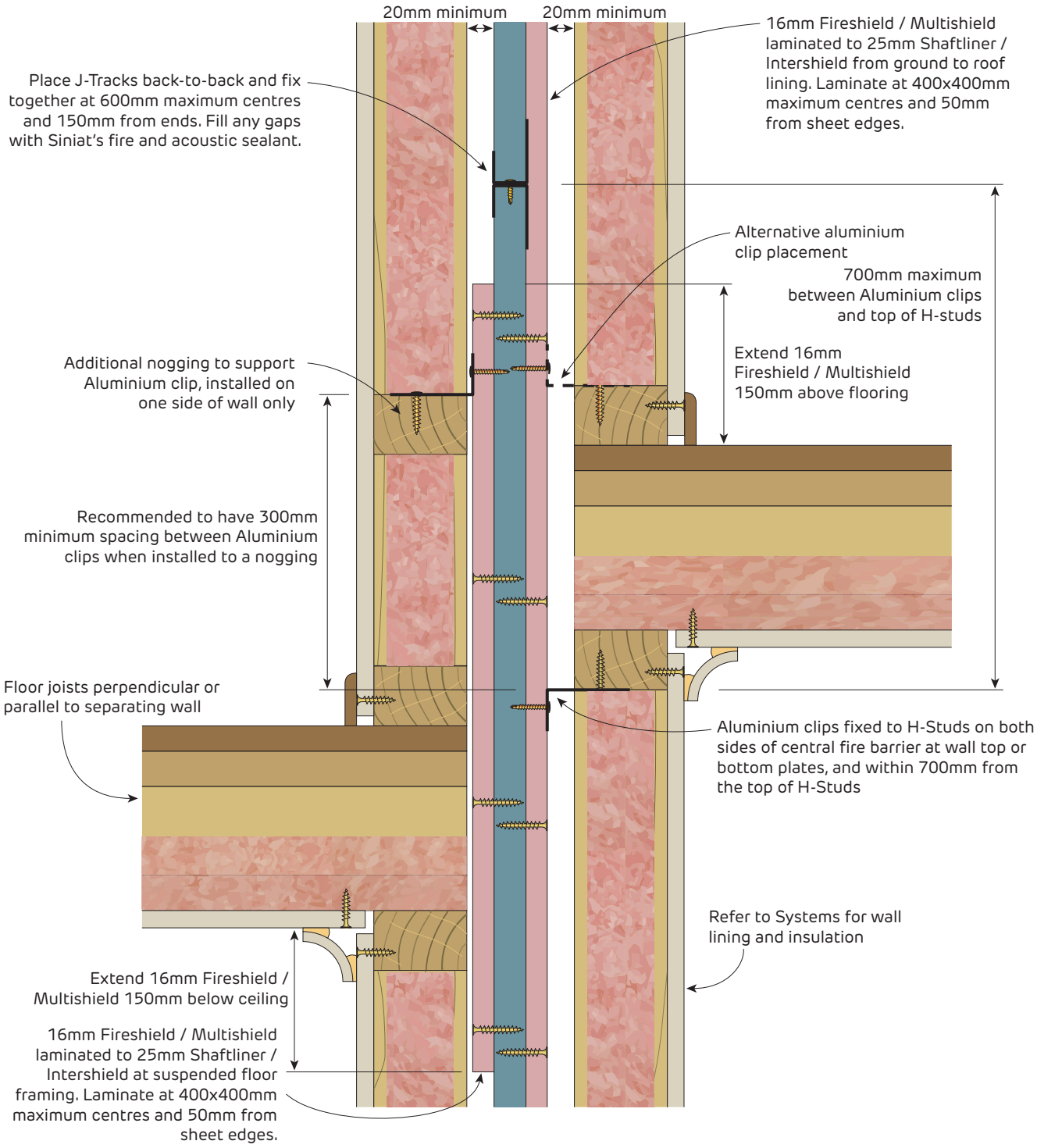


FIGURE 13 Interhome Wall to Upper Storey Staggered Floor with Additional Nogging Installed
FRL 90/90/90
Section

Fire Rated
Interhome Wall to Roof Lining

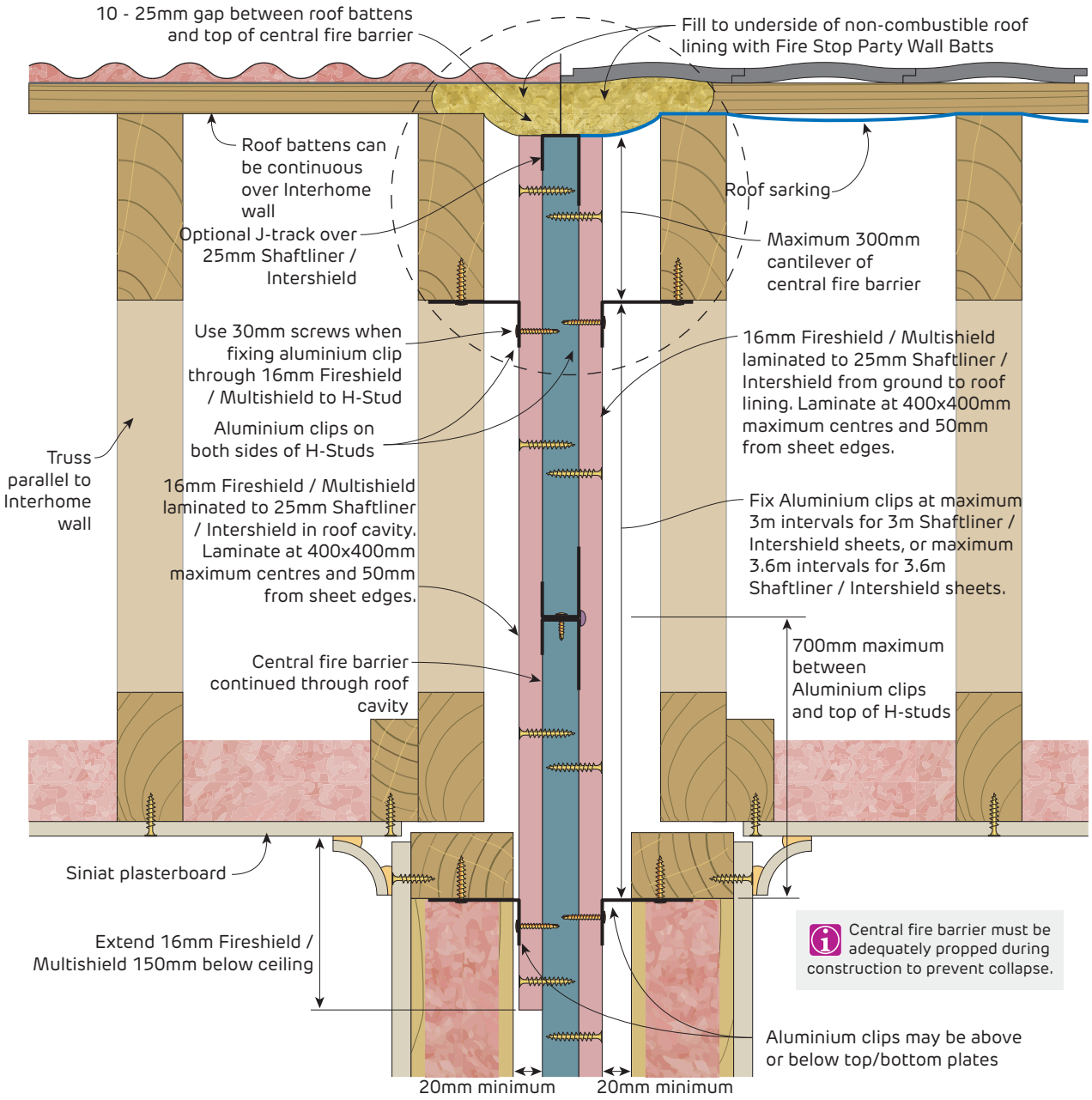


FIGURE 14 Interhome Wall to Roof Lining
FRL 90/90/90
Section

Fire Rated
Interhome Wall to Roof Lining

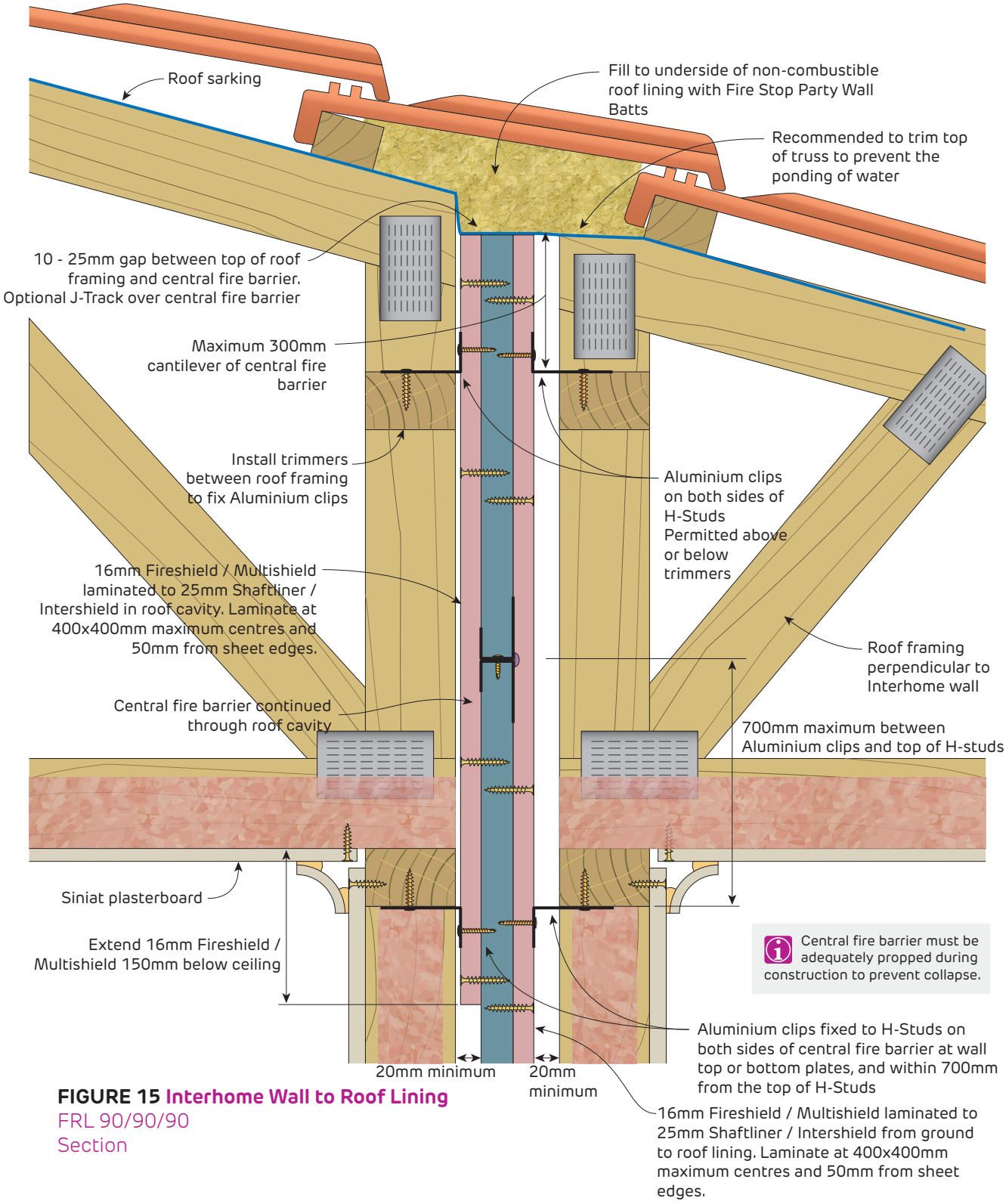


FIGURE 15 Interhome Wall to Roof Lining
FRL 90/90/90
Section

Fire Rated
Interhome Wall to Roof

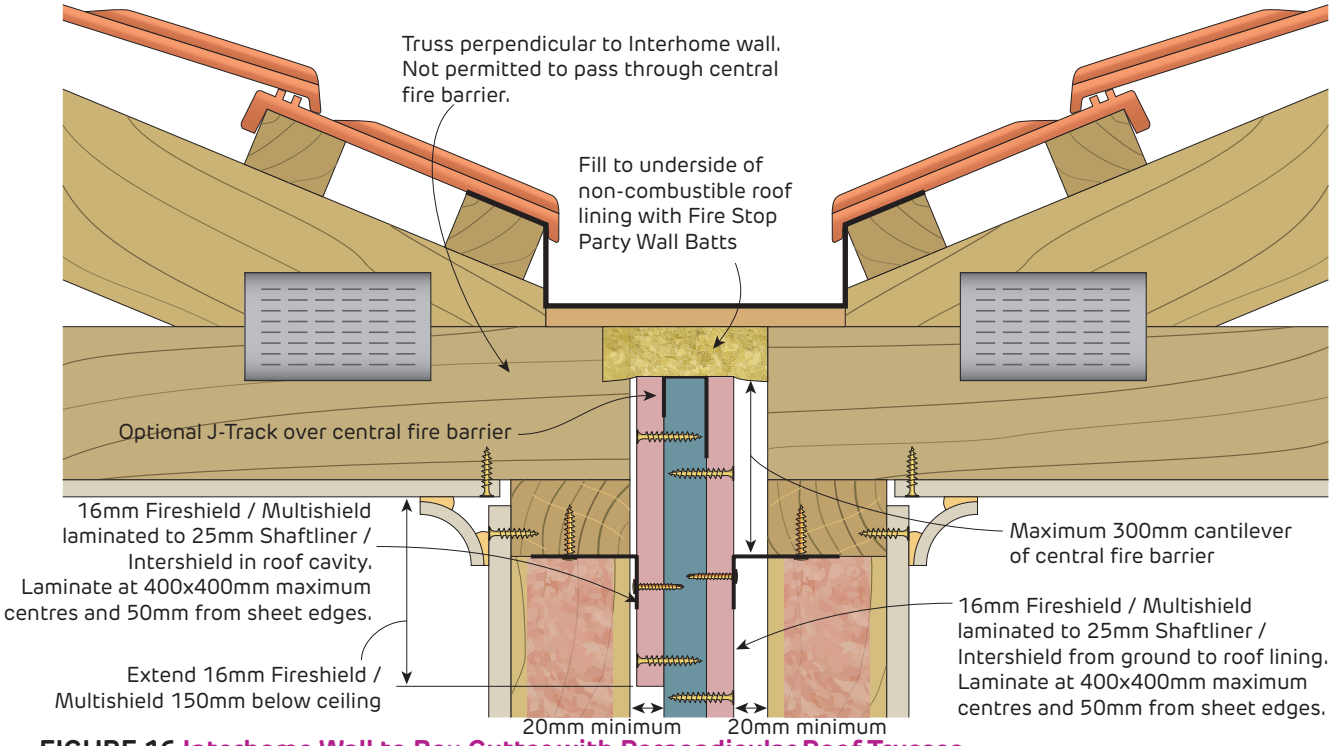


FIGURE 16 Interhome Wall to Box Gutter with Perpendicular Roof Trusses
FRL 90/90/90
Section

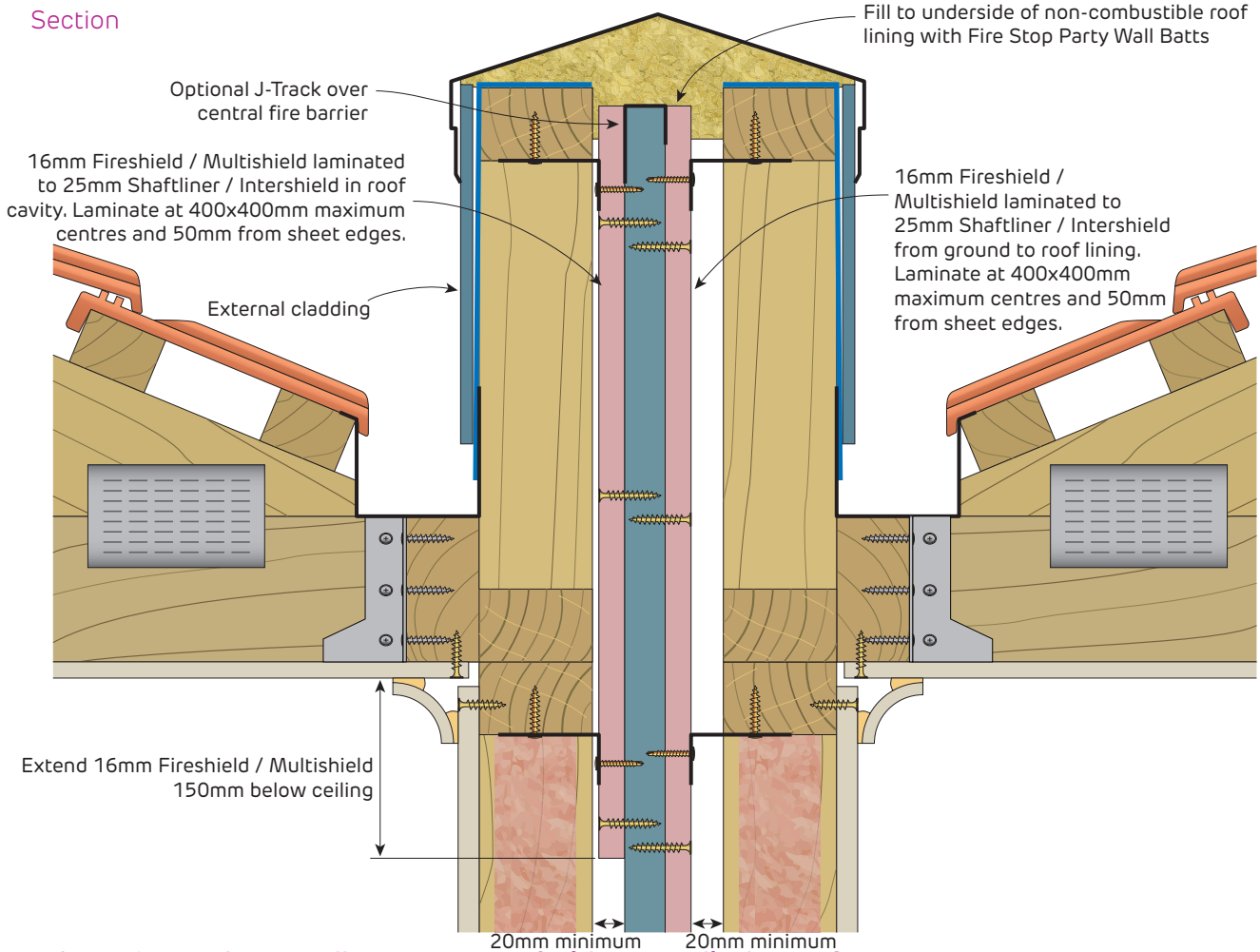


FIGURE 17 Interhome Wall to Parapet Roof with Perpendicular Roof Trusses
FRL 90/90/90
Section

Fire Rated
Interhome Central Fire Barrier

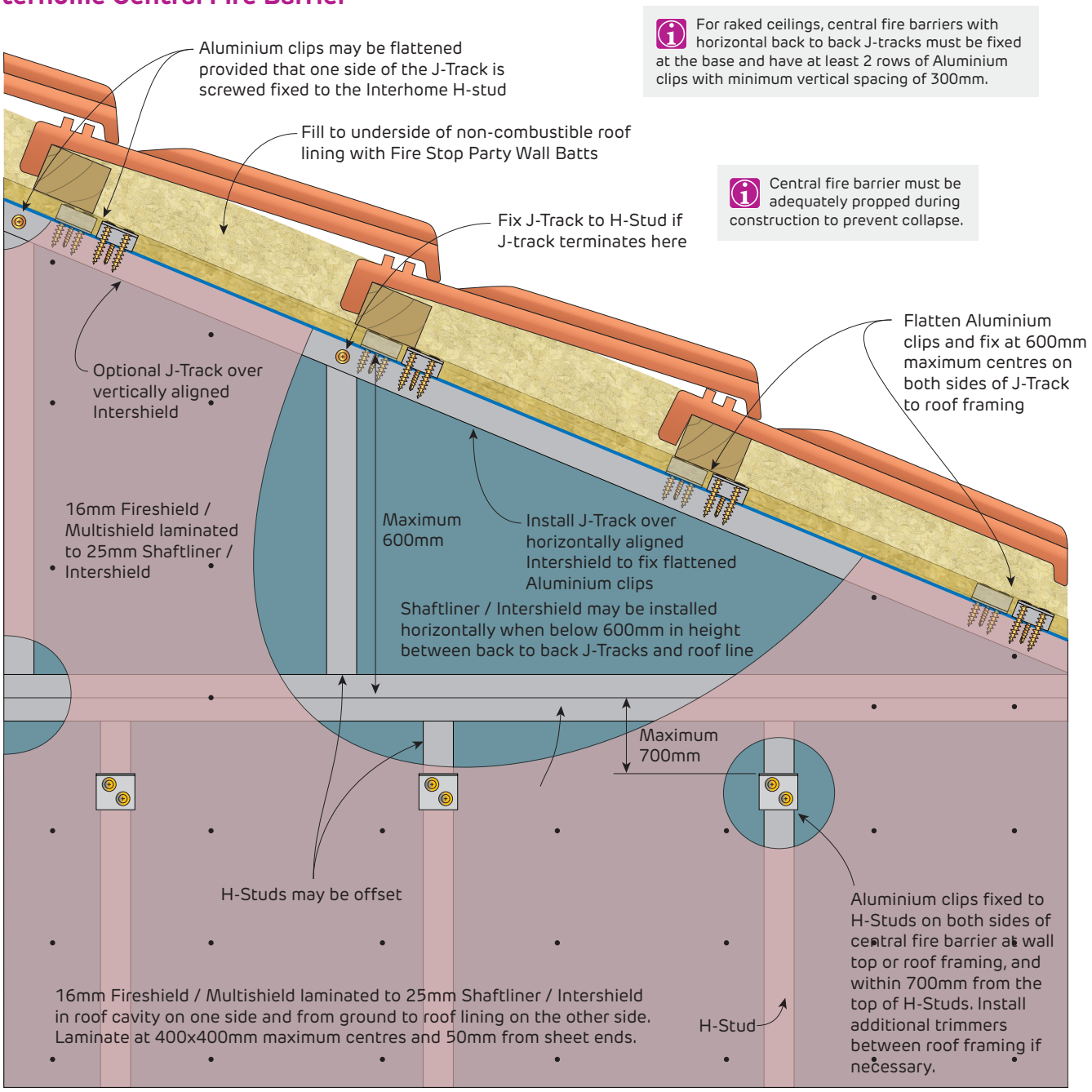


FIGURE 18 Interhome with Horizontal Shaftliner / Intershield to Roof Line
FRL 90/90/90
Section

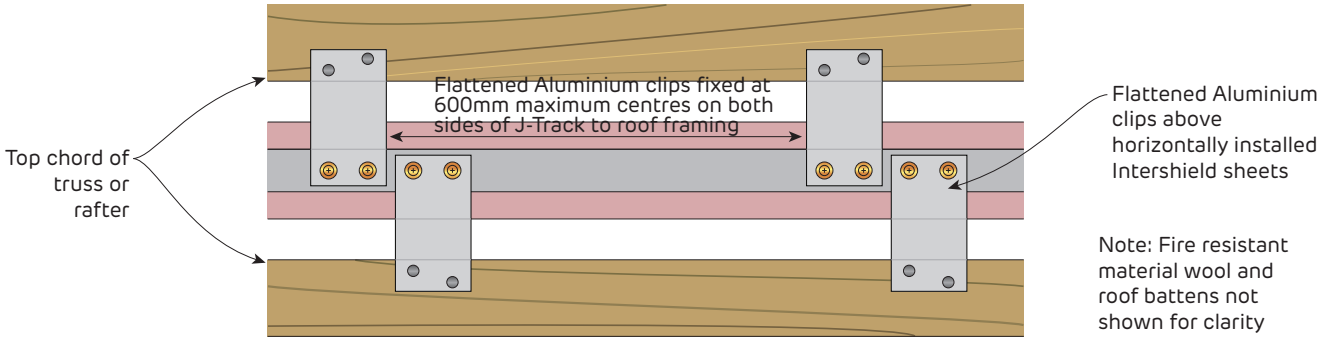


FIGURE 19 Interhome with Flattened Aluminium Clips over Horizontally Installed Shaftliner / Intershield
FRL 90/90/90
Section

Fire Rated
Interhome Central Fire Barrier

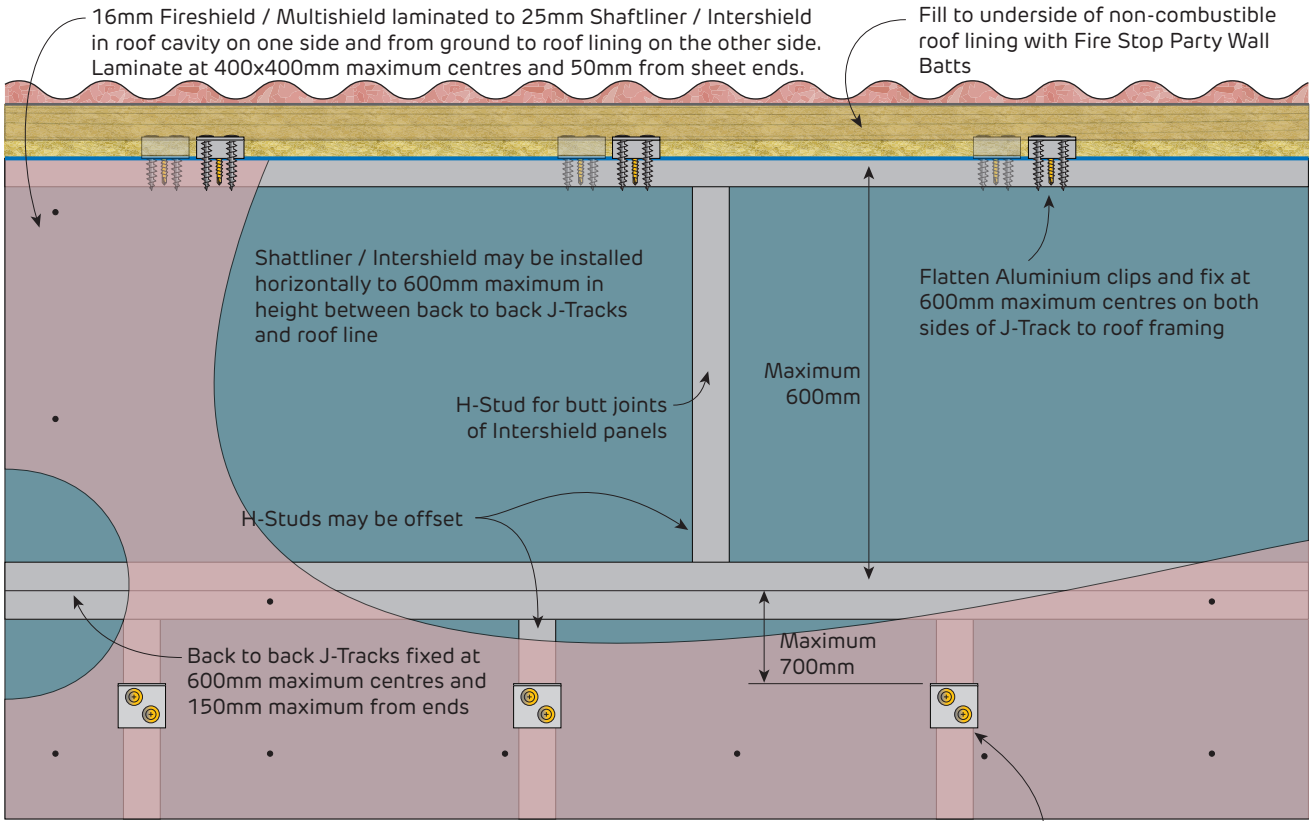


FIGURE 20 Interhome with Horizontal Shaftliner / Intershield panels
FRL 90/90/90
Section

Fill any gaps with Bindex fire and acoustic sealant to maintain integrity

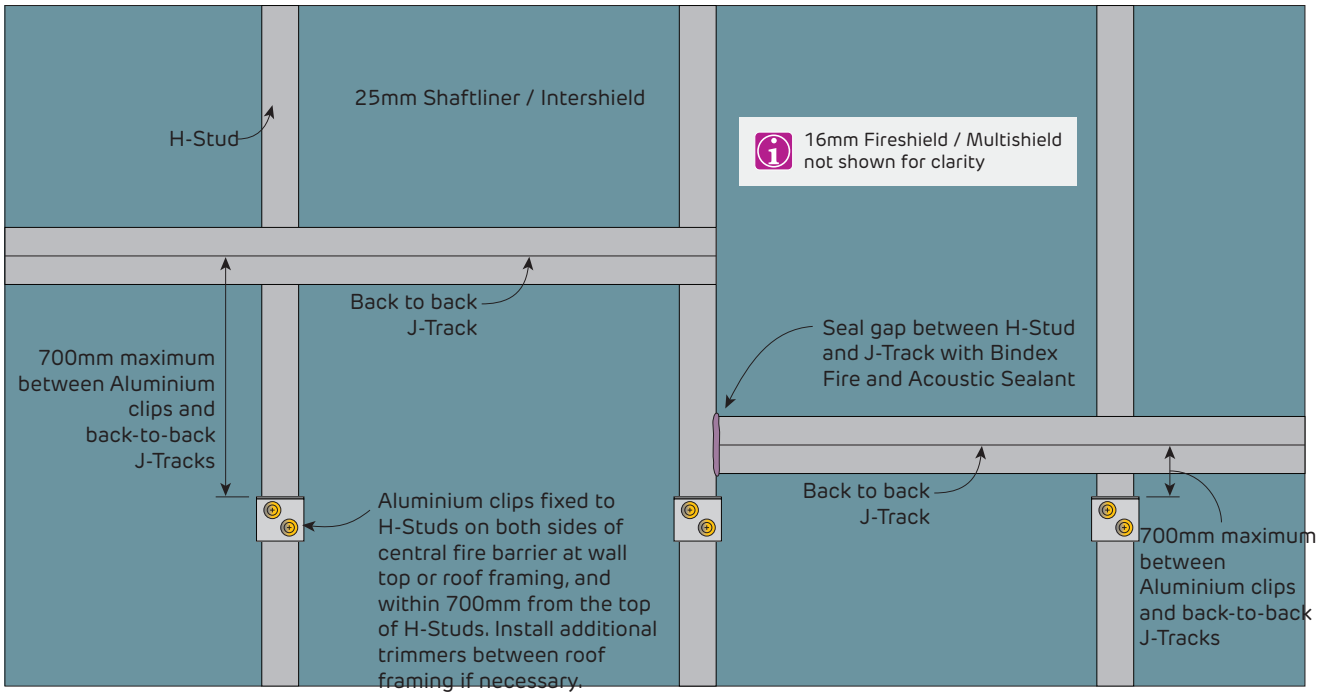


FIGURE 21 Interhome with Step-Down in Slab
FRL 90/90/90
Section

Fire Rated
Interhome Wall Over Eaves

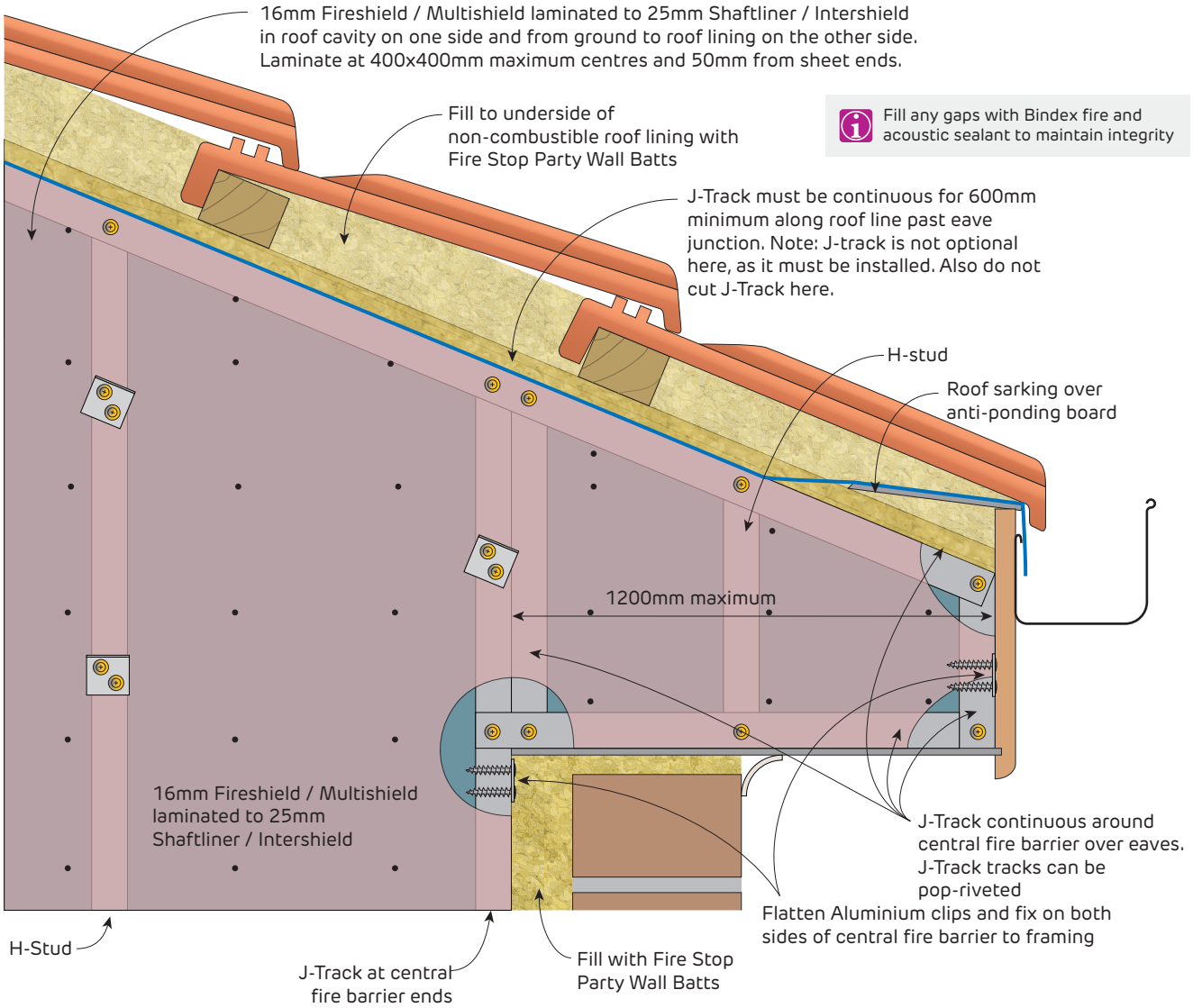


FIGURE 22 Interhome over Eaves
FRL 90/90/90
Section

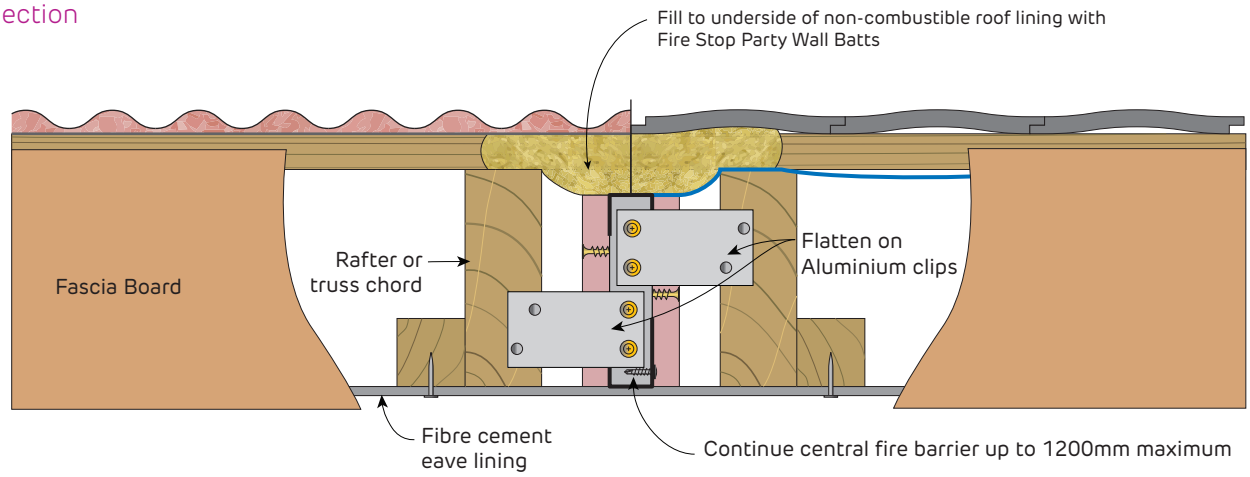


FIGURE 23 Interhome over Eave End Detail for Class 2 Buildings
FRL 90/90/90
Elevation

Fire Rated

Interhome Wall to External Wall Above

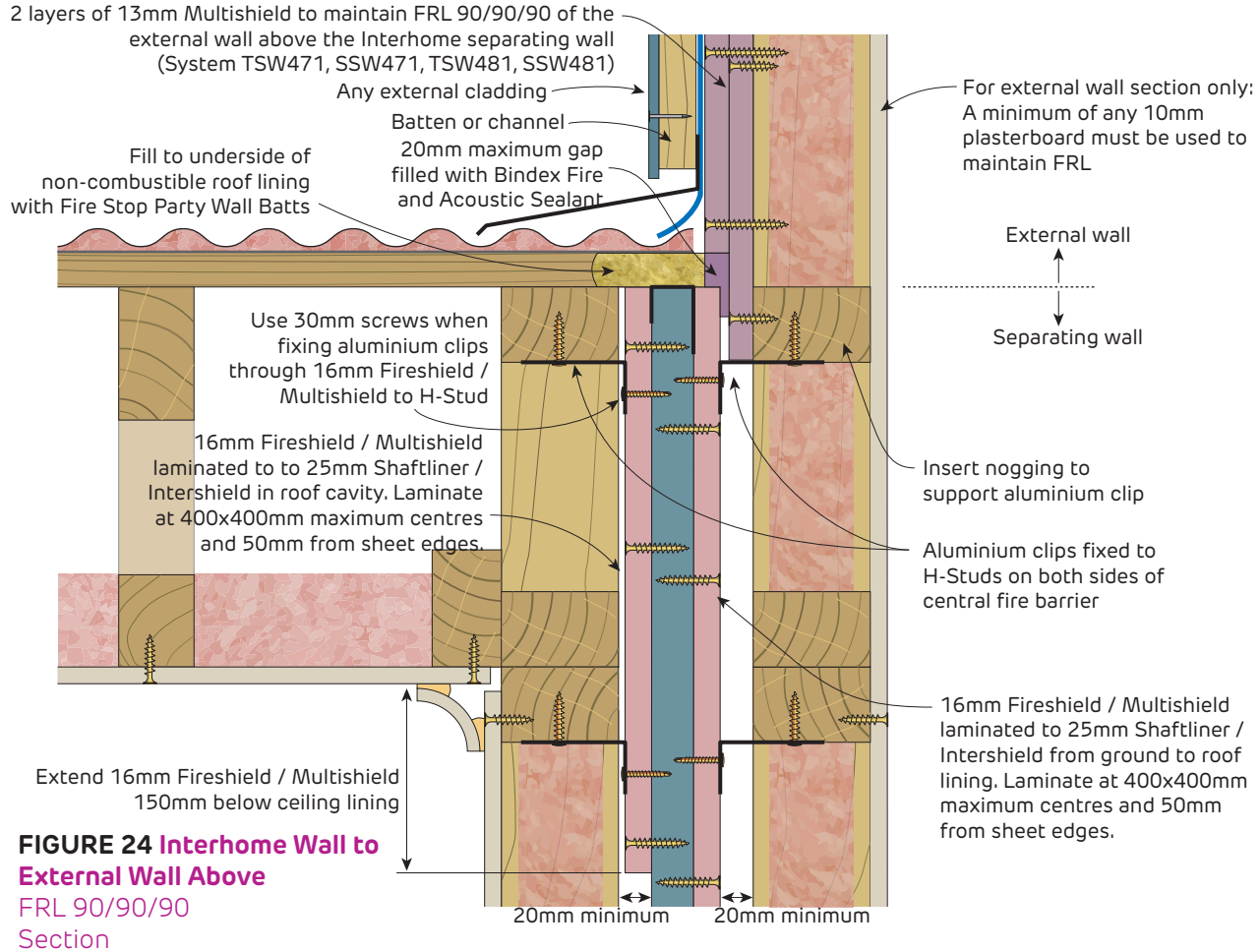


FIGURE 24 Interhome Wall to External Wall Above
FRL 90/90/90
Section

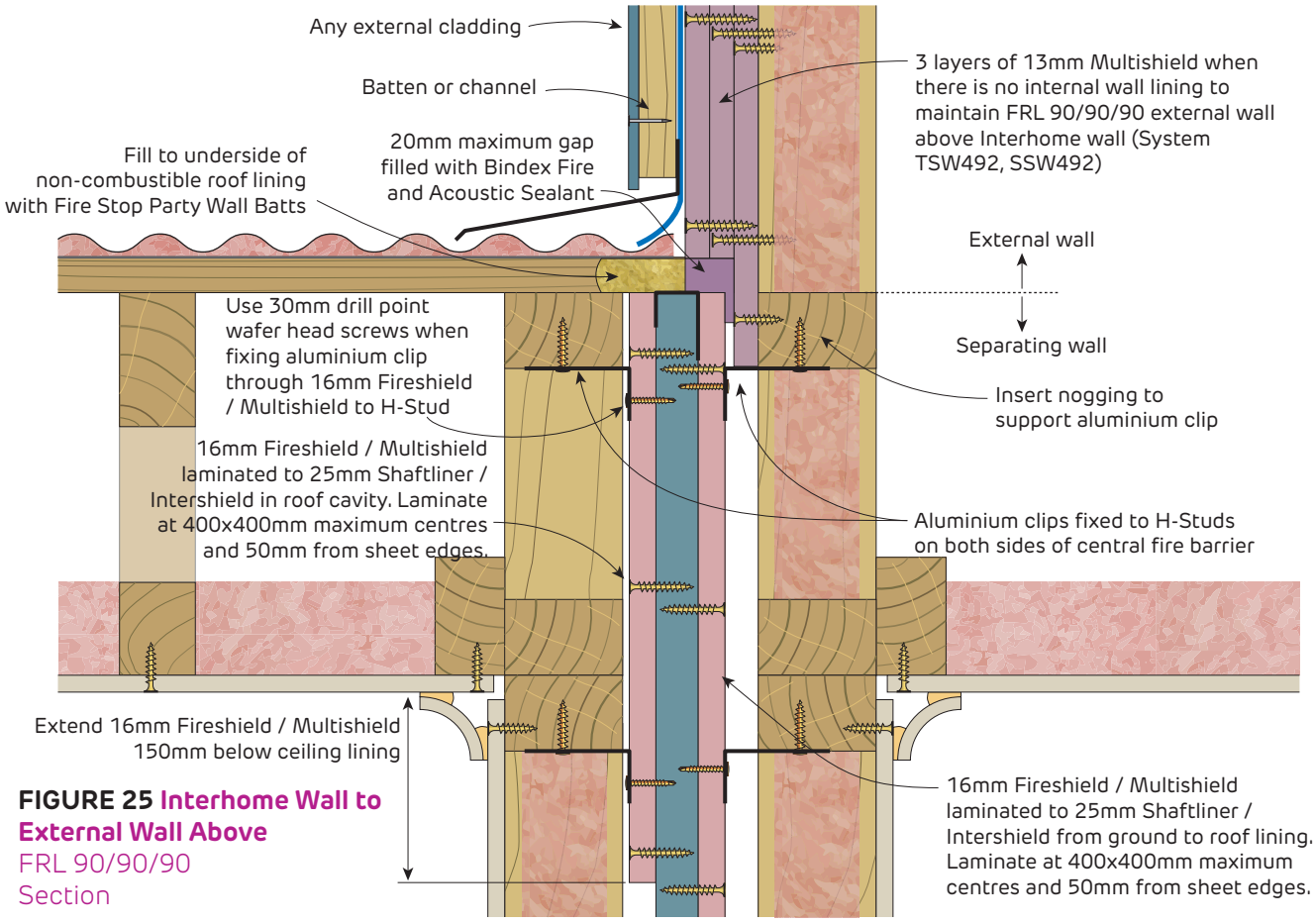


FIGURE 25 Interhome Wall to External Wall Above
FRL 90/90/90
Section

Fire Rated
Interhome Wall to External Wall Above with Eave Overhanging Boundary

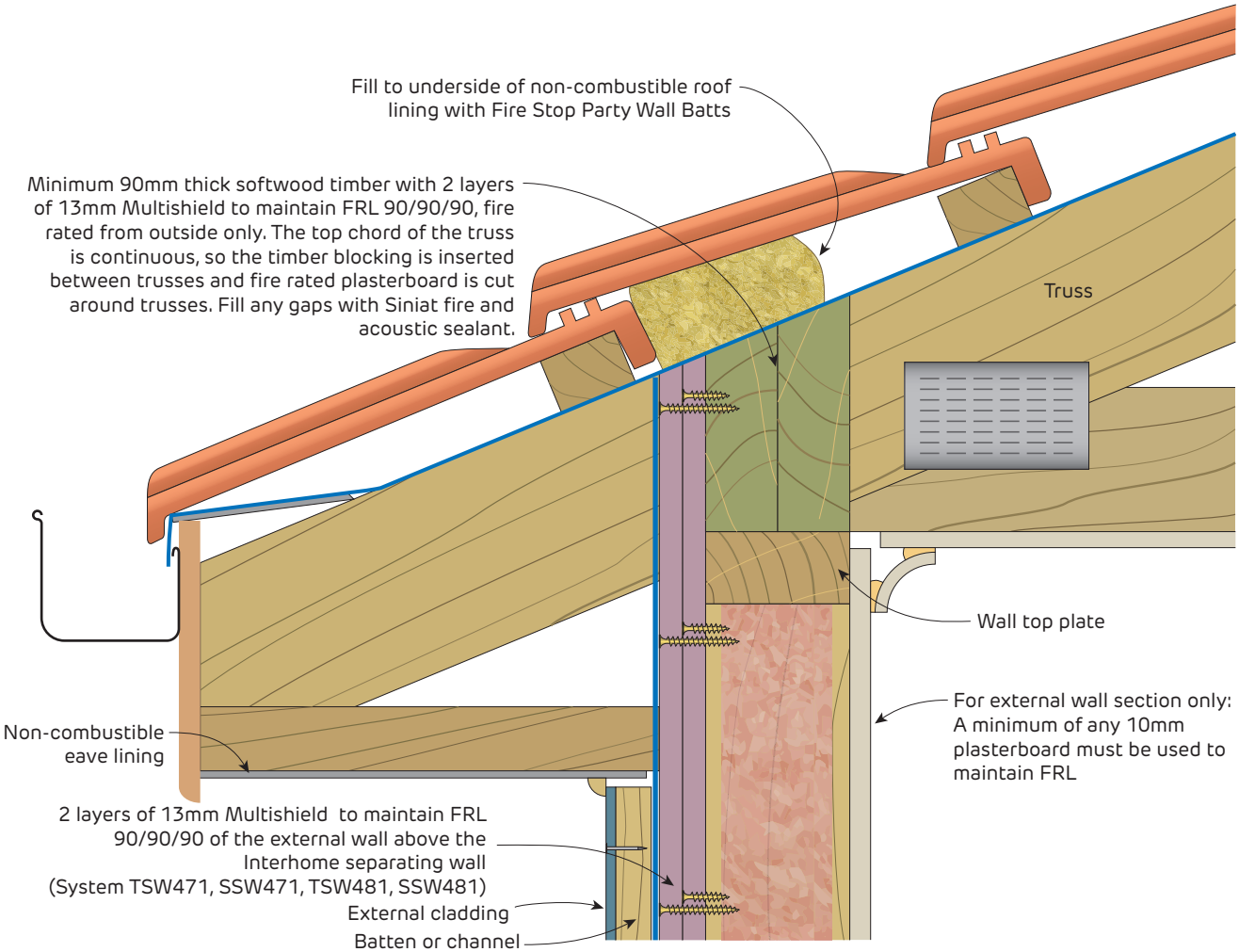


FIGURE 26 Interhome over Eaves - Option 1
Timber Frame - FRL 90/90/90
Section

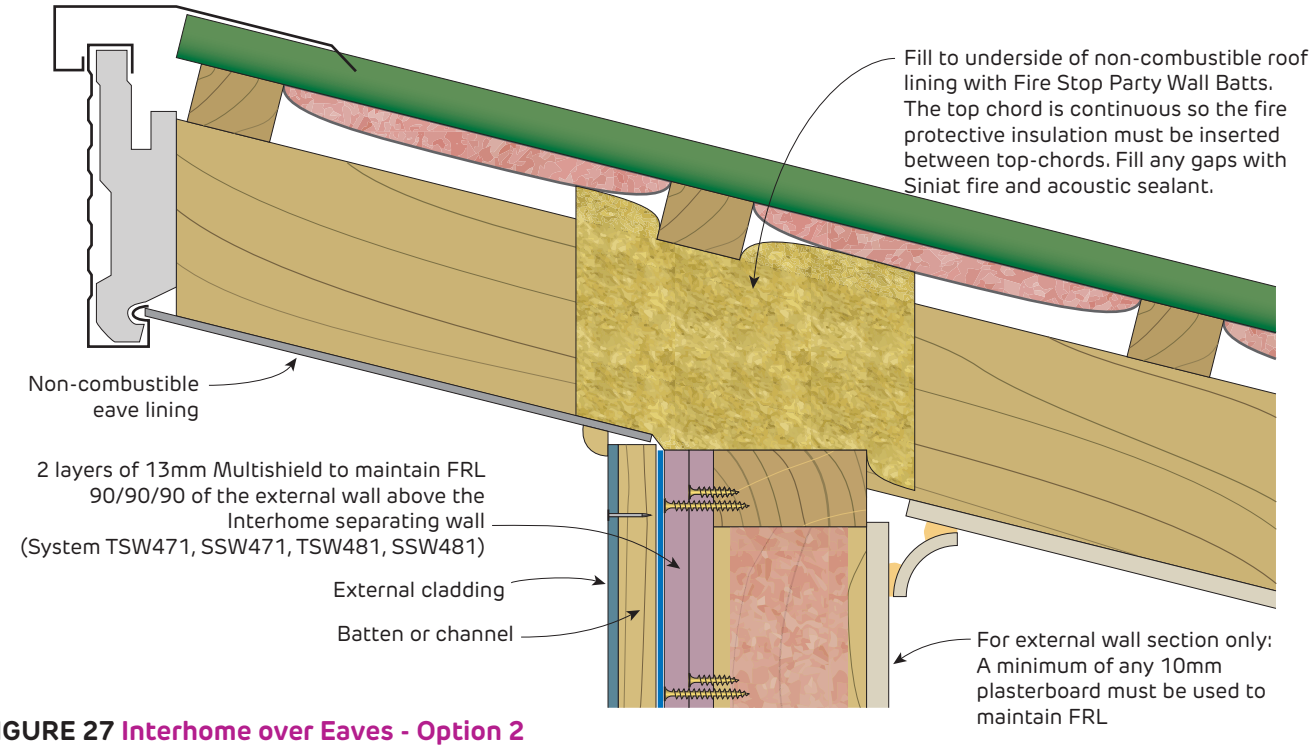


FIGURE 27 Interhome over Eaves - Option 2
FRL 90/90/90 - Section

Fire Rated
Interhome Wall to External Wall Above

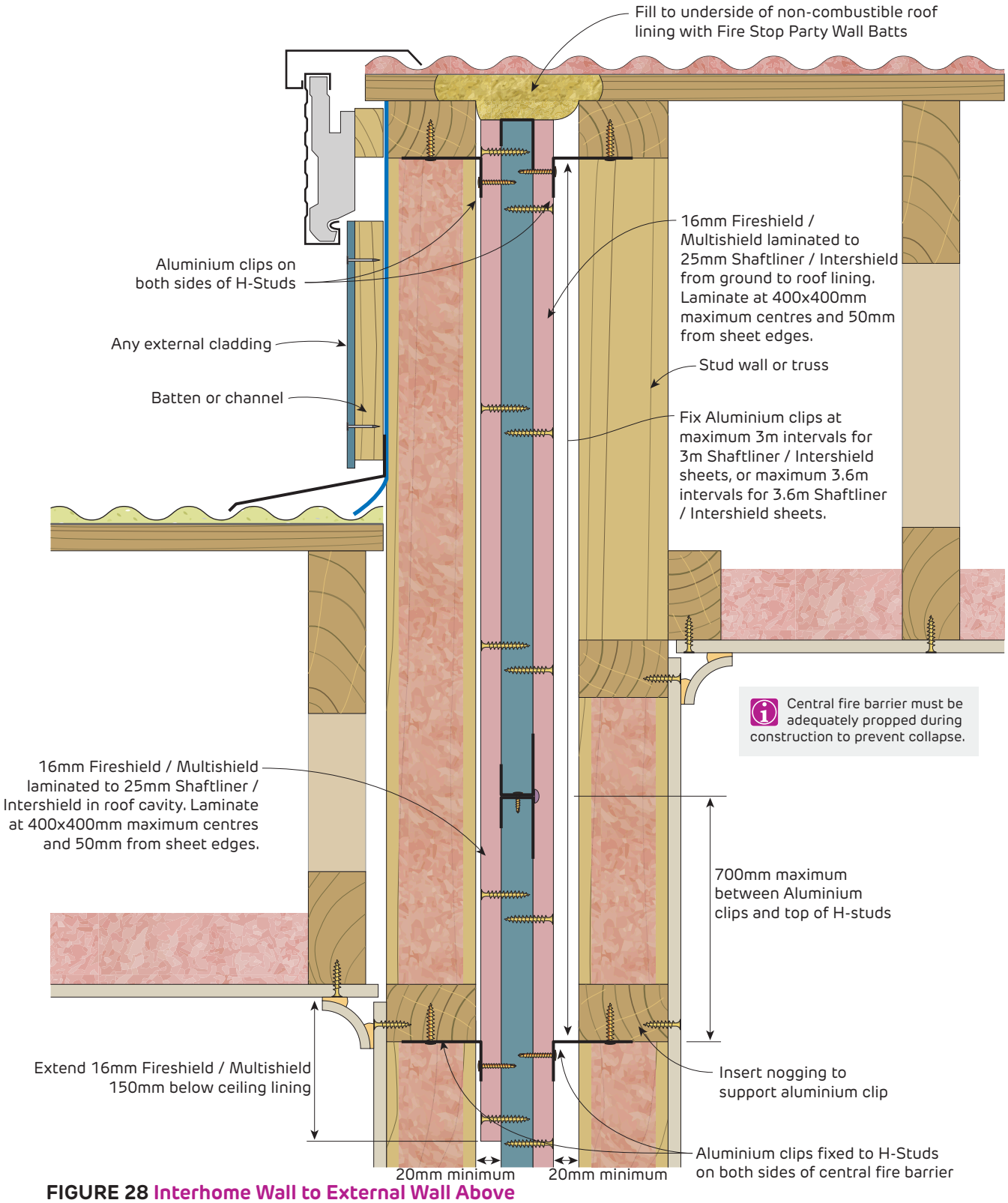


FIGURE 28 Interhome Wall to External Wall Above
FRL 90/90/90
Section

Fire Rated
Interhome Junctions

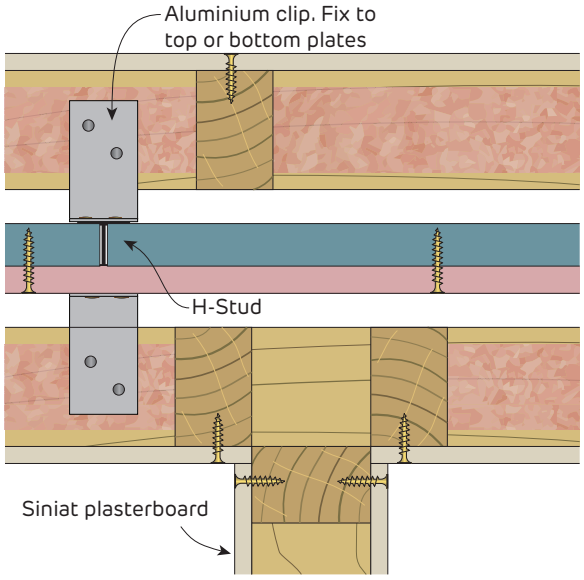


FIGURE 29 Interhome Wall with Non-Fire Rated Intersecting Wall
Timber Frame - FRL 90/90/90
Plan

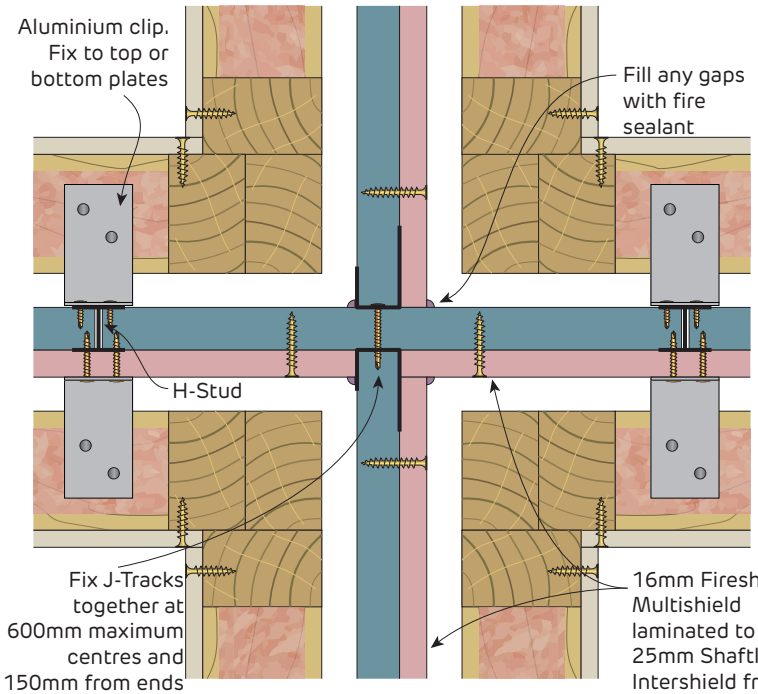


FIGURE 30 Interhome Wall Intersection
FRL 90/90/90
Plan

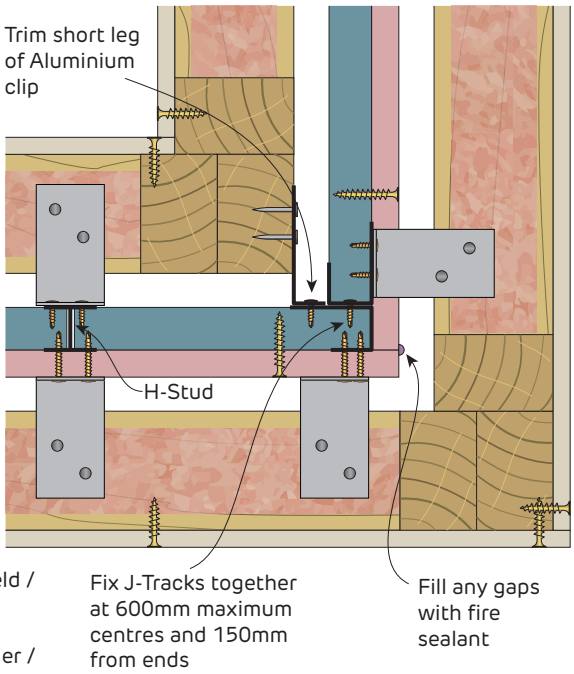


FIGURE 31 Interhome Wall Corner
FRL 90/90/90
Plan

Fire Rated
Interhome Wall to External Wall

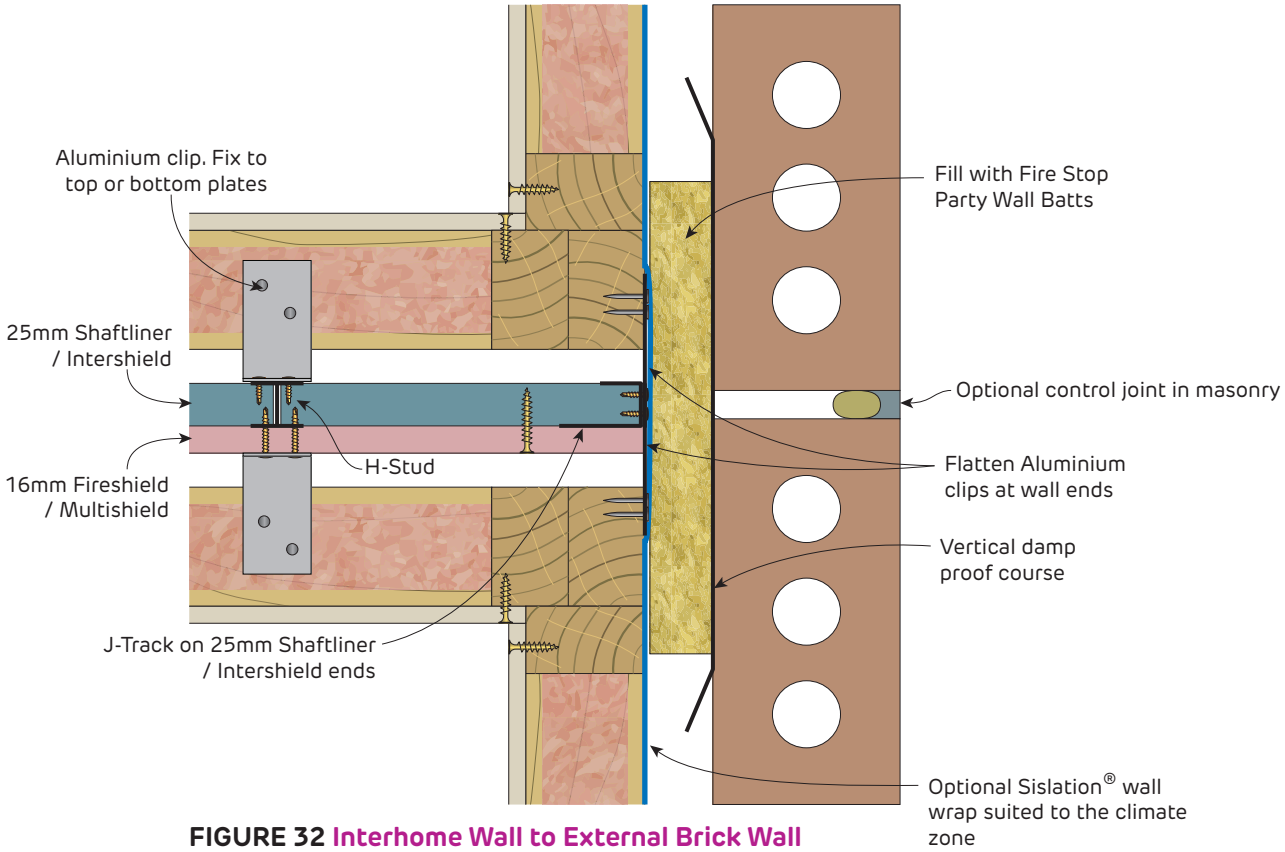


FIGURE 32 Interhome Wall to External Brick Wall
Timber Frame - FRL 90/90/90
Plan

Fire Rated
Interhome Wall to External Wall

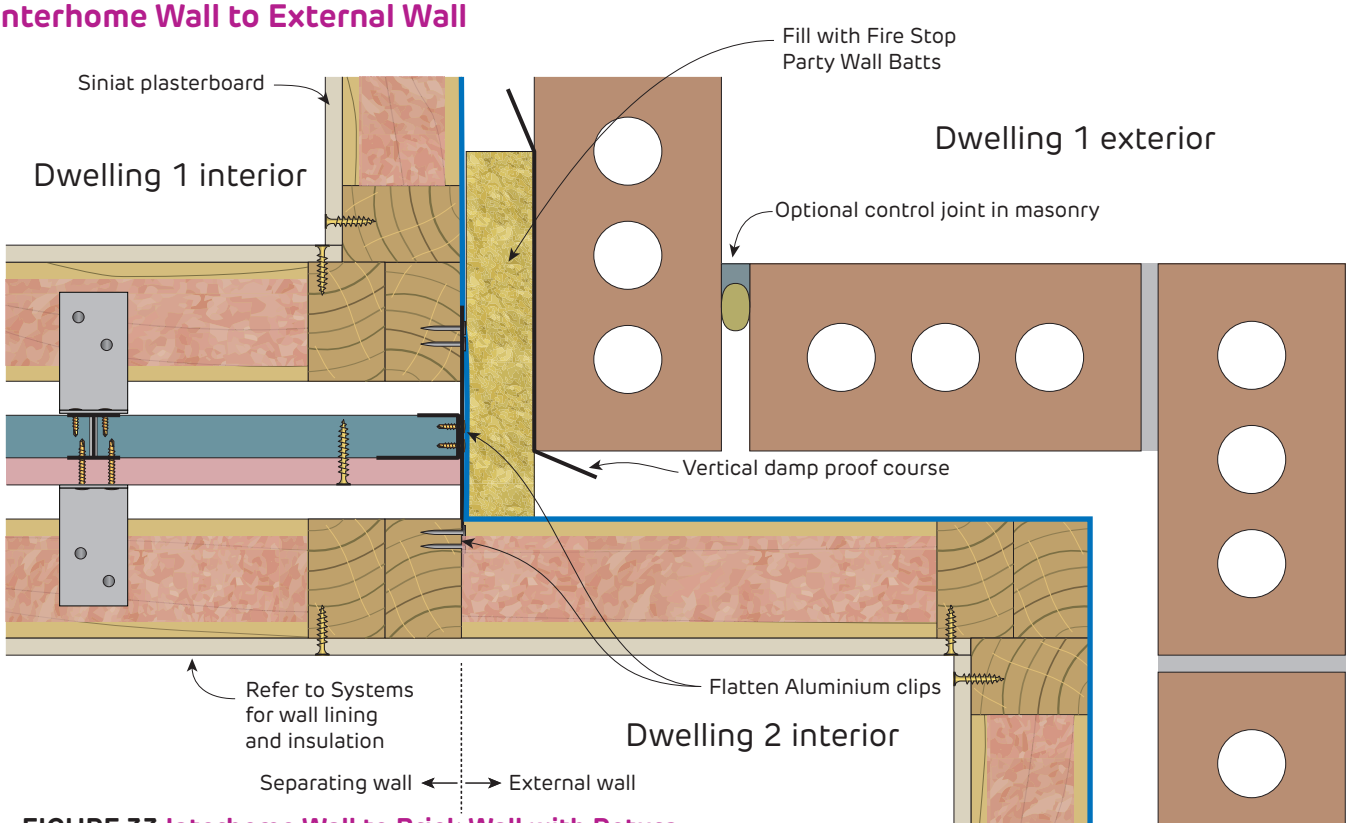


FIGURE 33 Interhome Wall to Brick Wall with Return
FRL 90/90/90
Plan

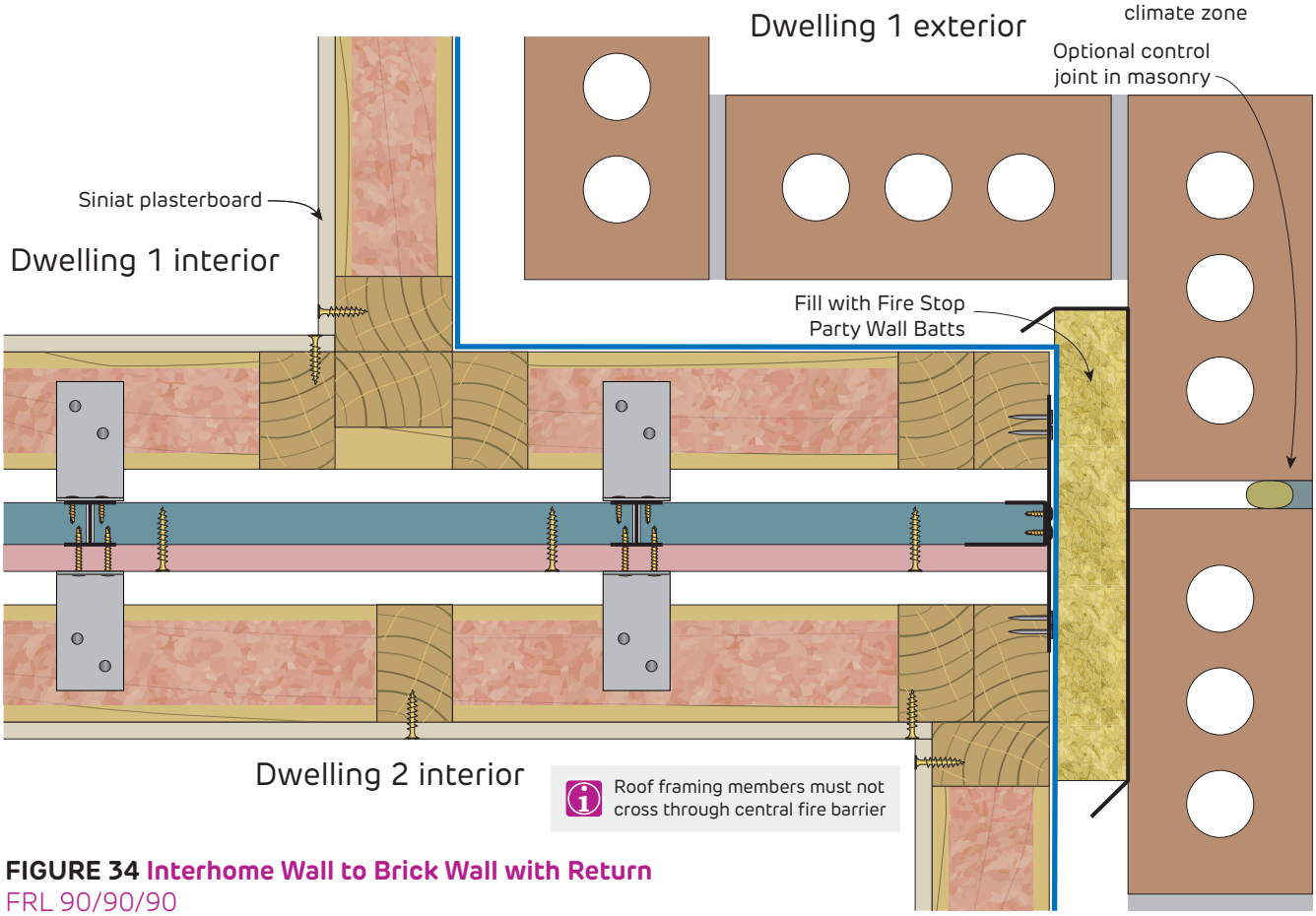


FIGURE 34 Interhome Wall to Brick Wall with Return
FRL 90/90/90
Plan

Fire Rated
Interhome Wall to External Wall

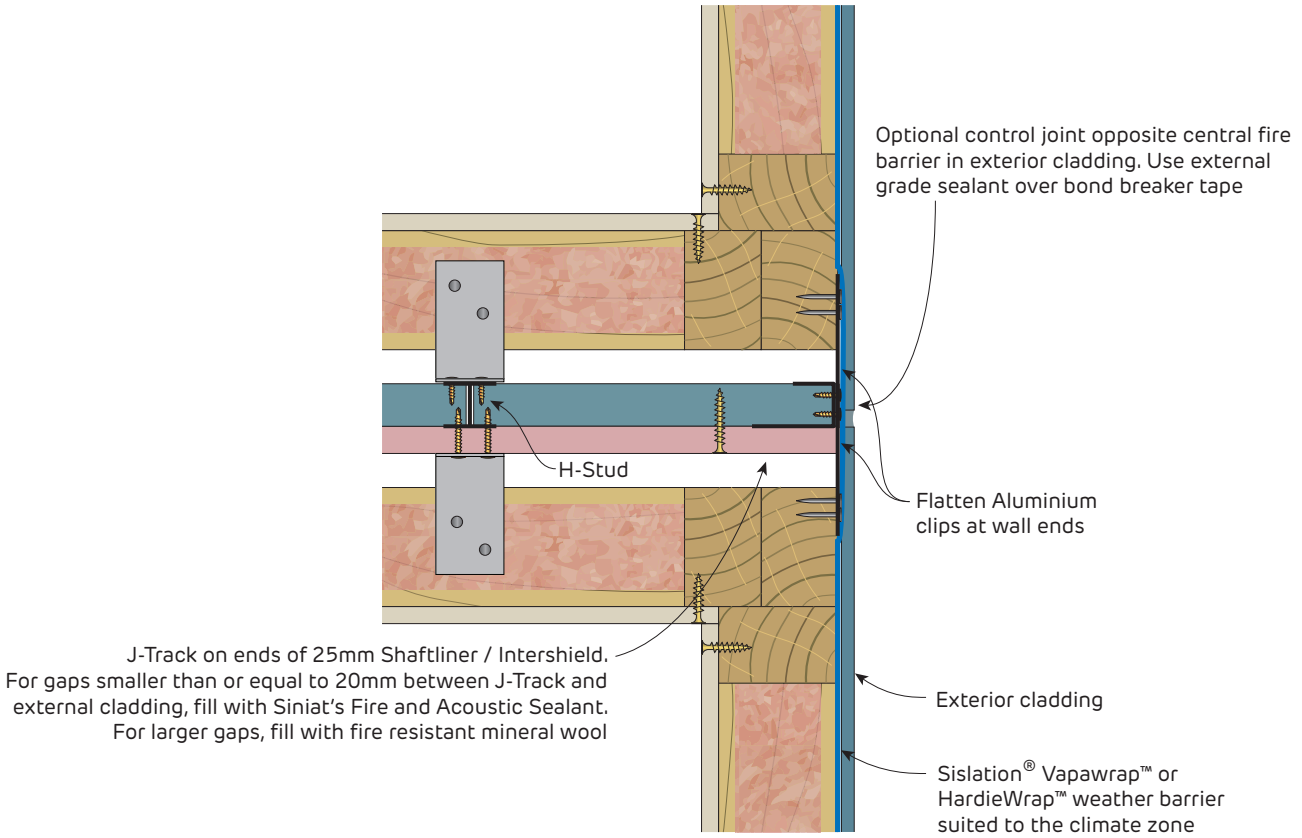


FIGURE 35 Interhome Wall to External Clad Wall
FRL 90/90/90
Plan

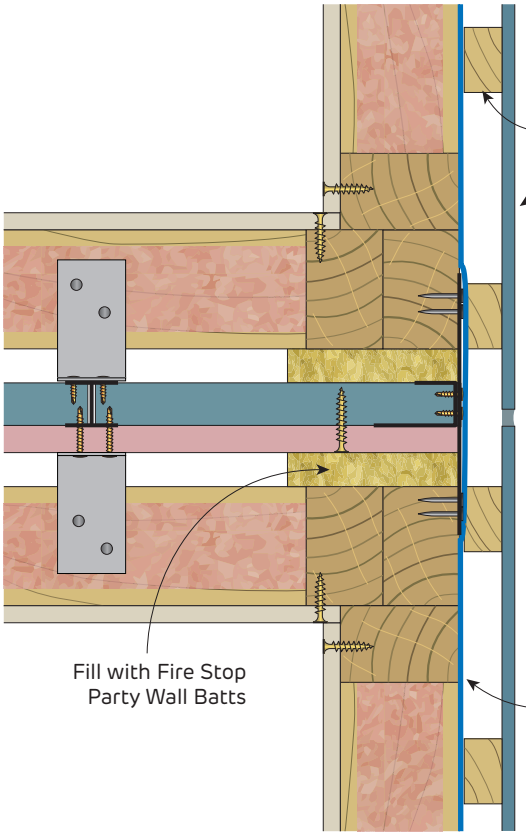


FIGURE 36 Interhome Wall to External Clad Wall with Cavity Battens
FRL 90/90/90
Plan

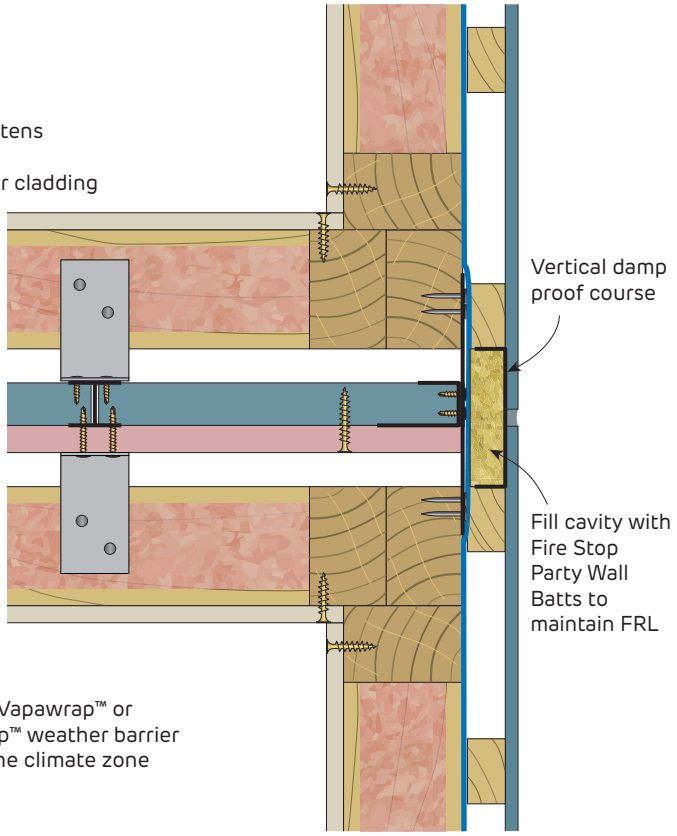


FIGURE 37 Interhome Wall to External Clad Wall with Cavity Battens
FRL 90/90/90
Plan

Fire Rated
Interhome Wall to External Wall

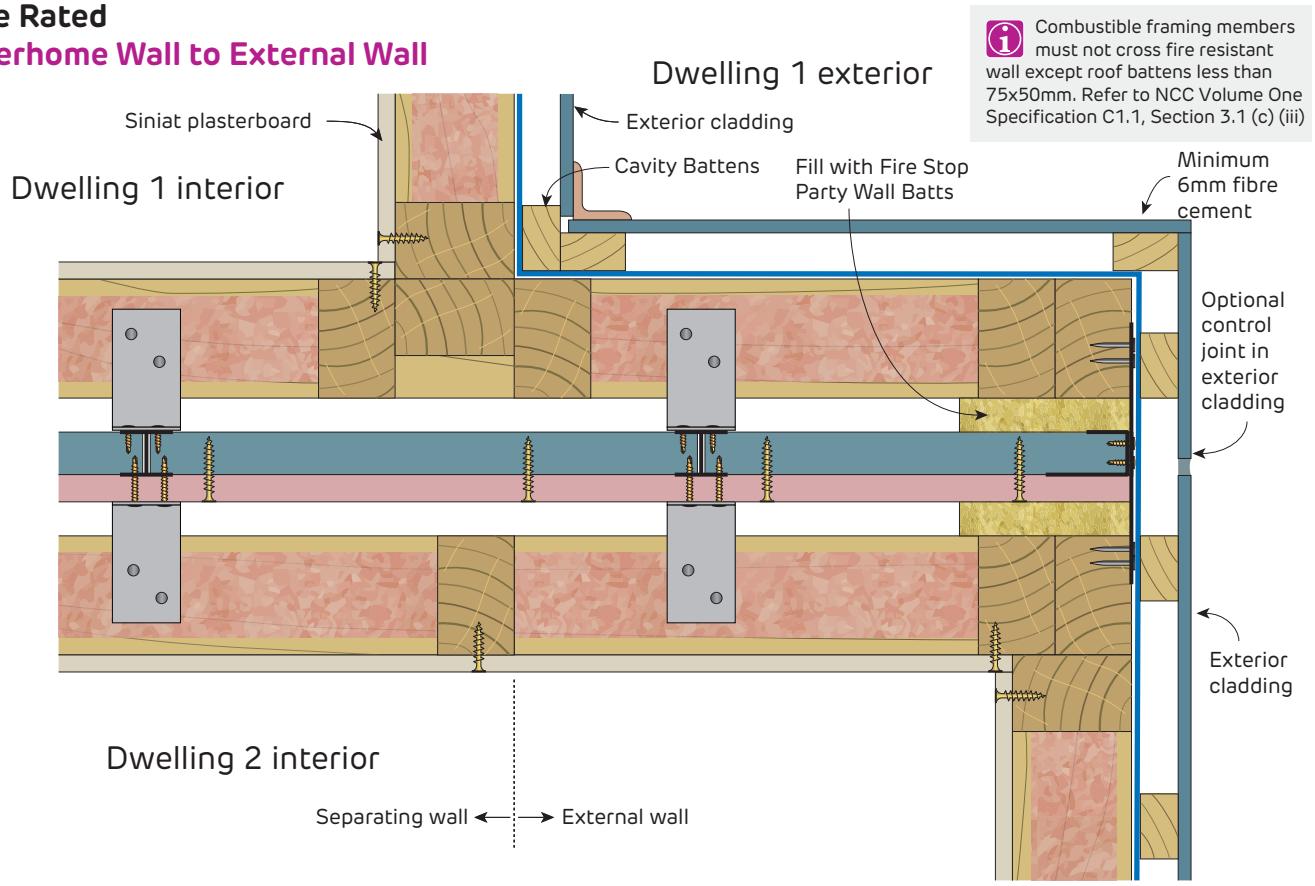


FIGURE 38 Interhome Wall to External Clad Wall with Cavity battens with Return
FRL 90/90/90
Plan

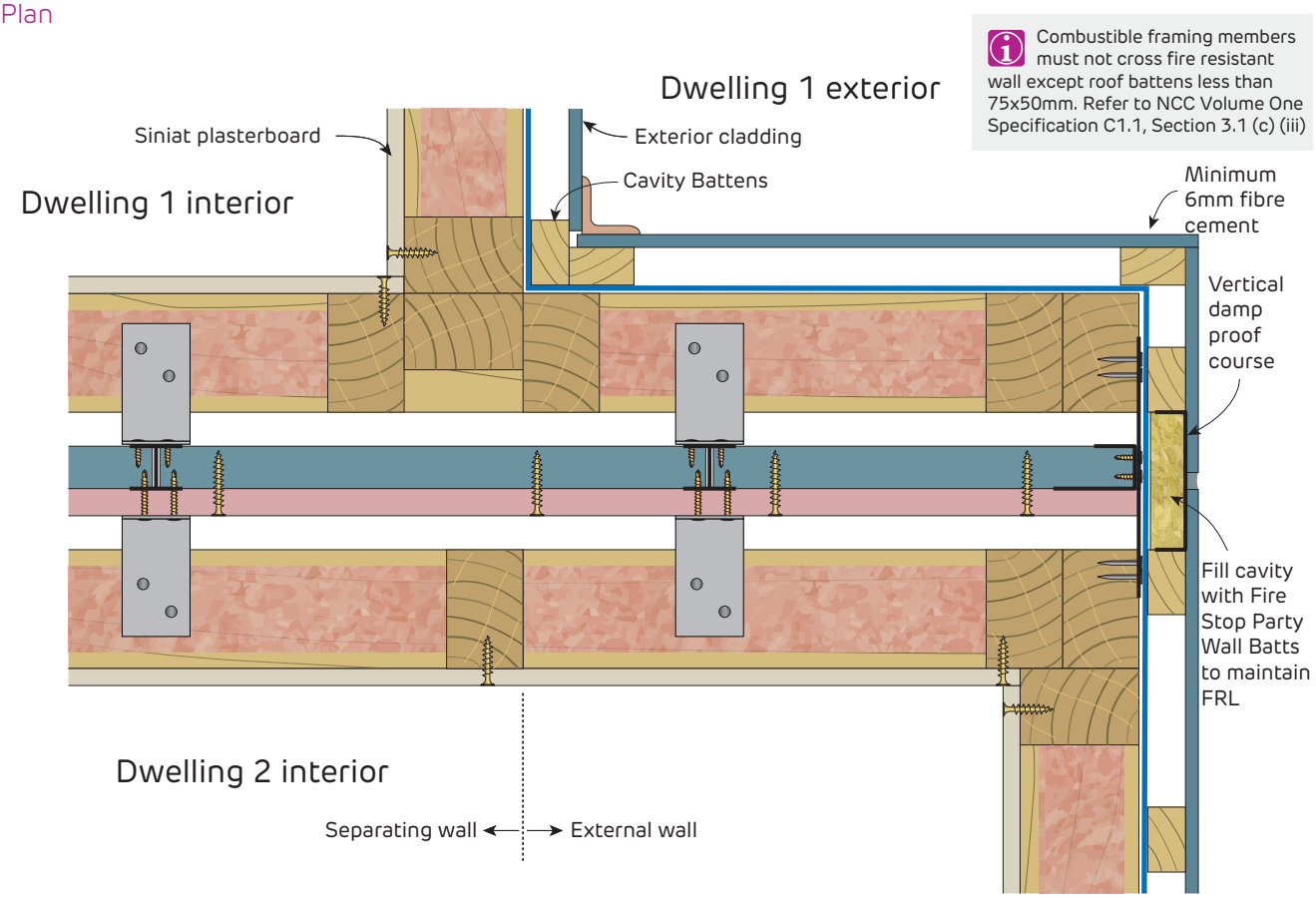


FIGURE 39 Interhome Wall to External Clad Wall with Cavity battens with Return
FRL 90/90/90
Plan

Fire Rated
Interhome Wall to External Wall

Combustible framing members must not cross fire resistant wall except roof battens less than 75x50mm. Refer to NCC Volume One Specification C1.1, Section 3.1 (c) (iii)

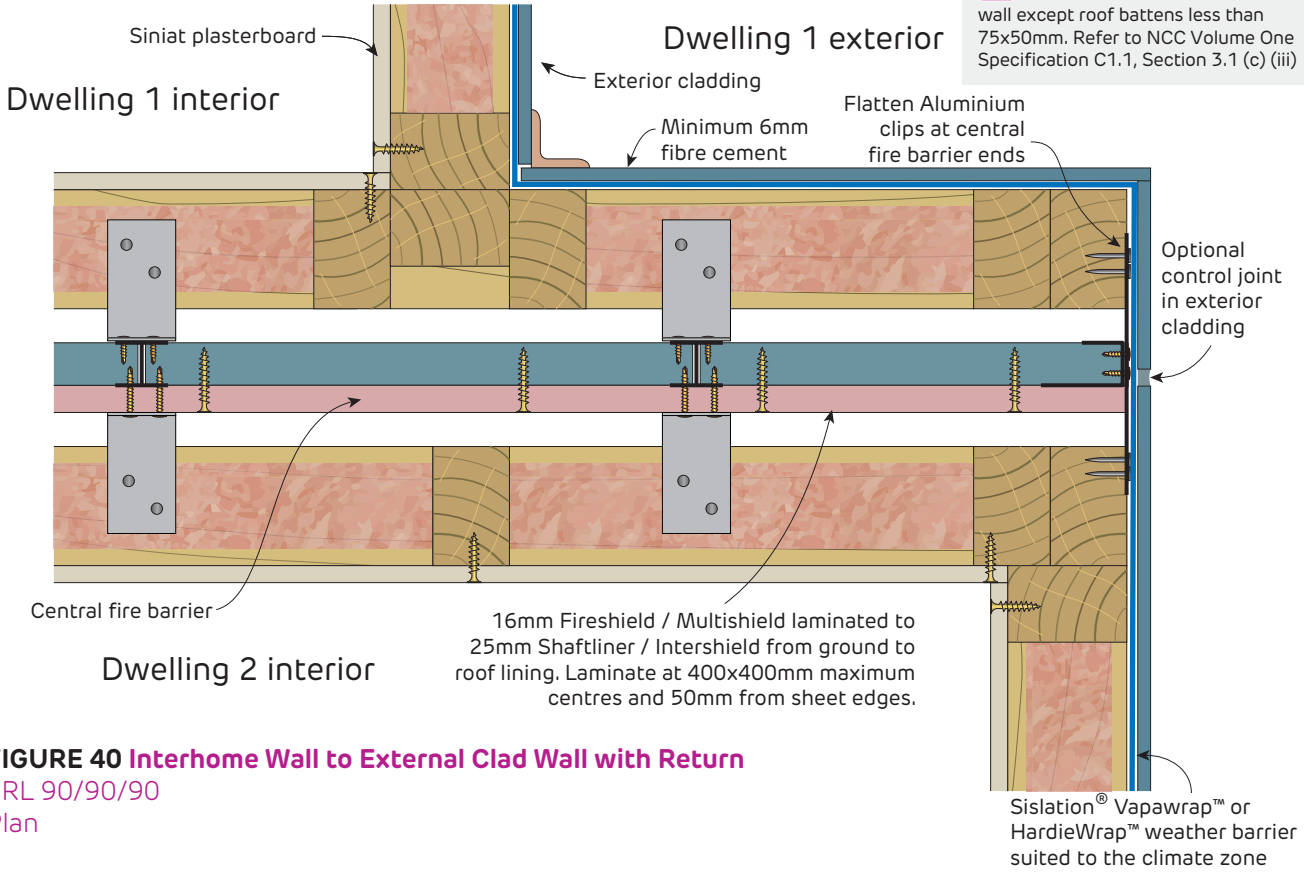


FIGURE 40 Interhome Wall to External Clad Wall with Return
FRL 90/90/90
Plan

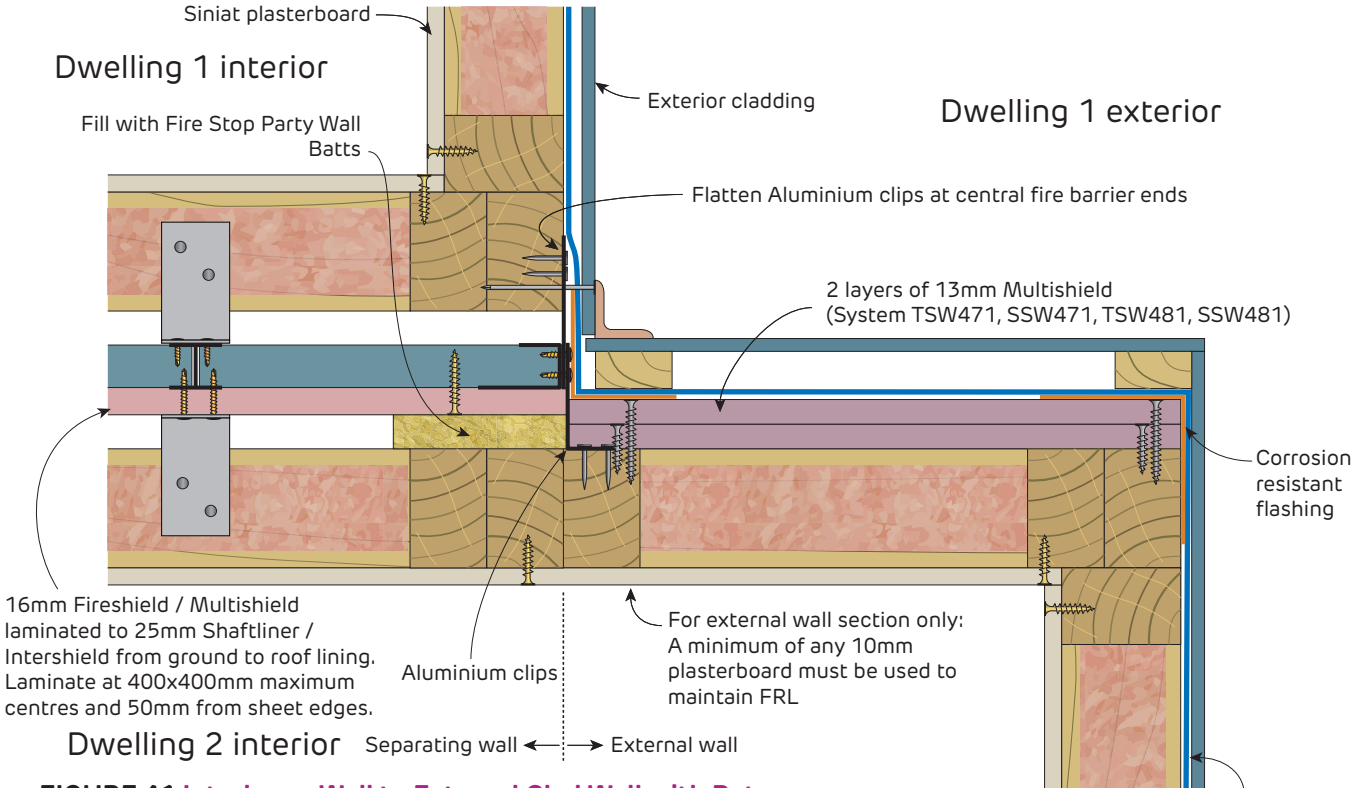


FIGURE 41 Interhome Wall to External Clad Wall with Return
FRL 90/90/90
Plan

Fill any gaps with Bindex fire and acoustic sealant to maintain integrity

Fire Rated
Interhome Wall to External Wall

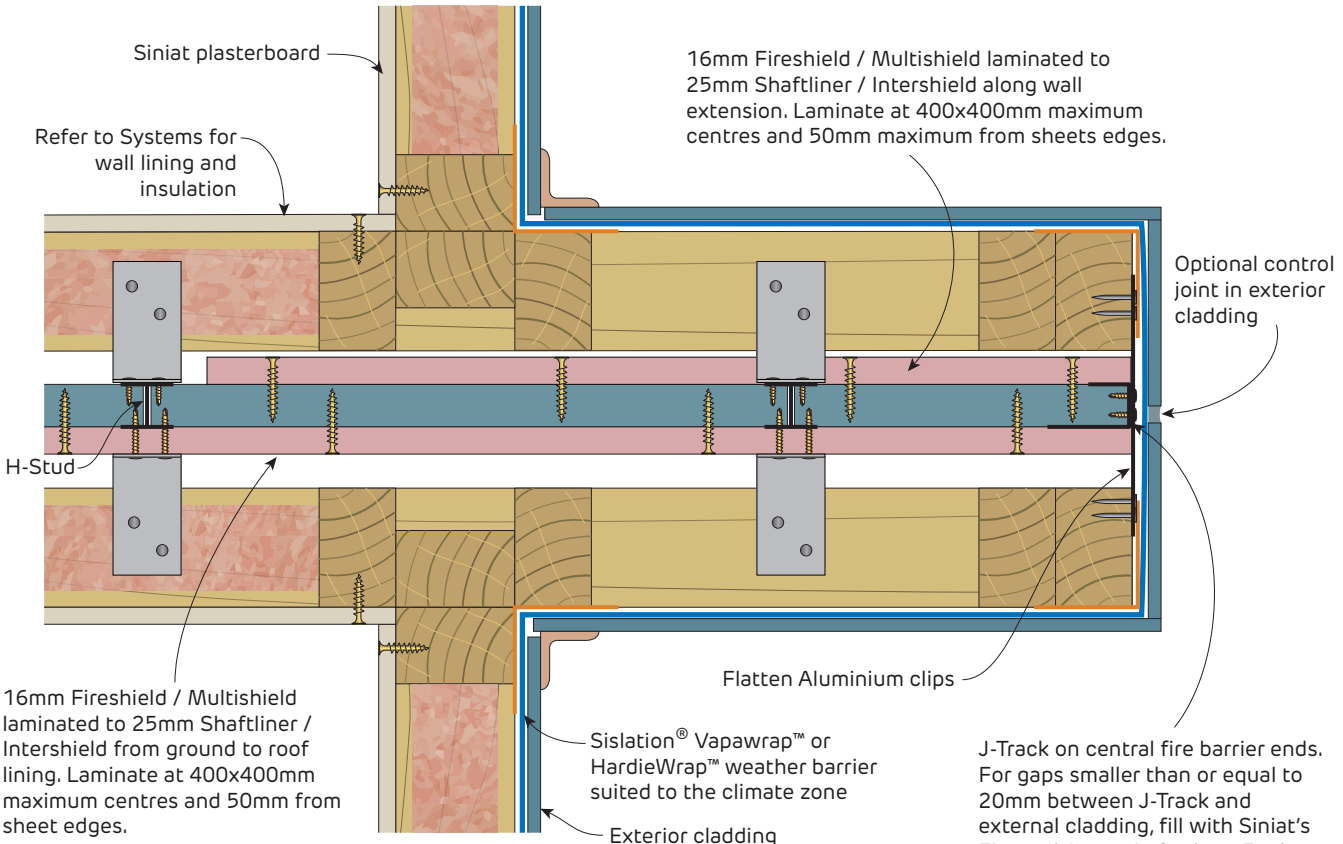


FIGURE 42 Interhome Wall with External Wall Extension
FRL 90/90/90
Plan

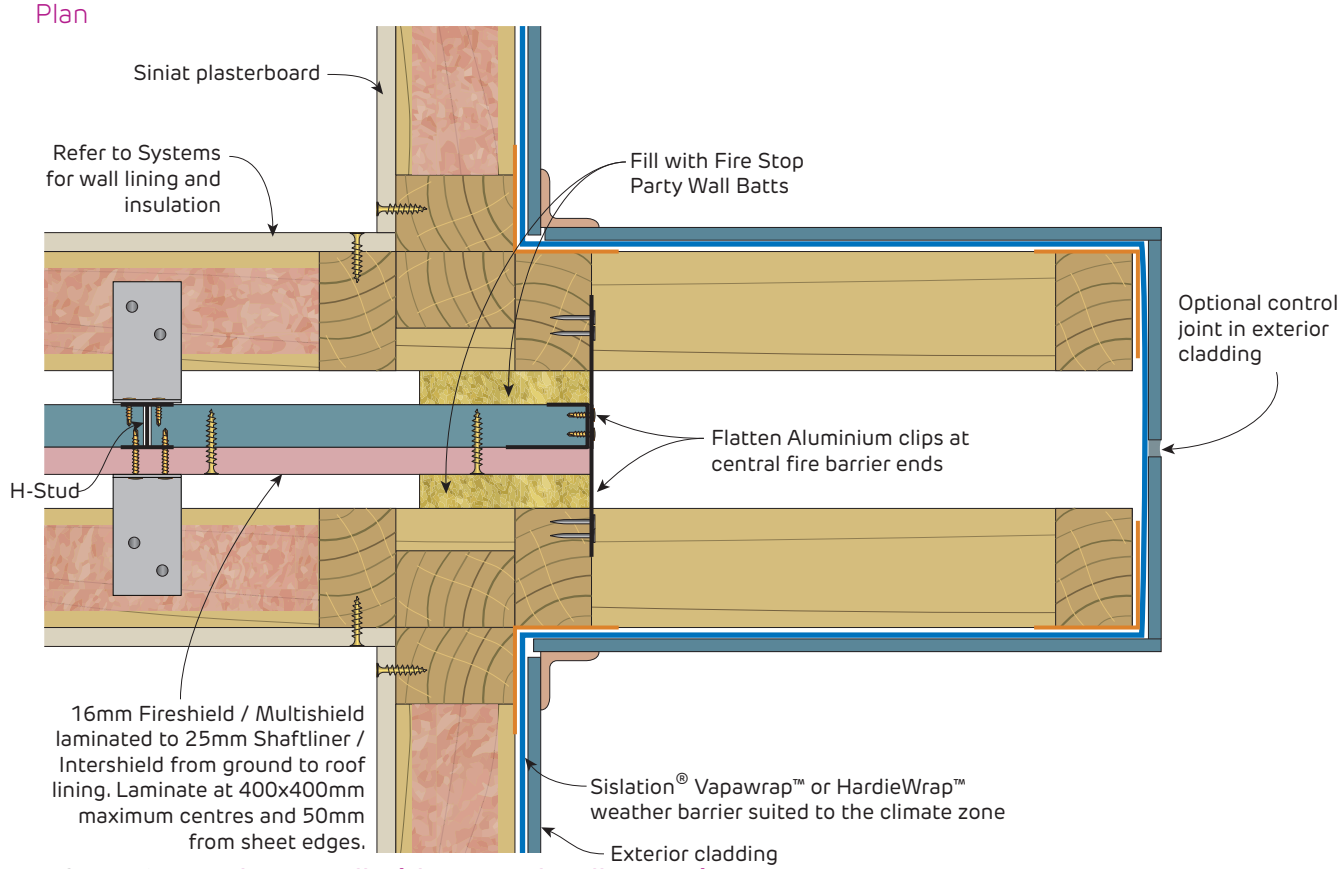


FIGURE 43 Interhome Wall with External Wall Extension
Timber Frame - FRL 90/90/90
Plan

Fire Rated
Interhome Wall to External Wall

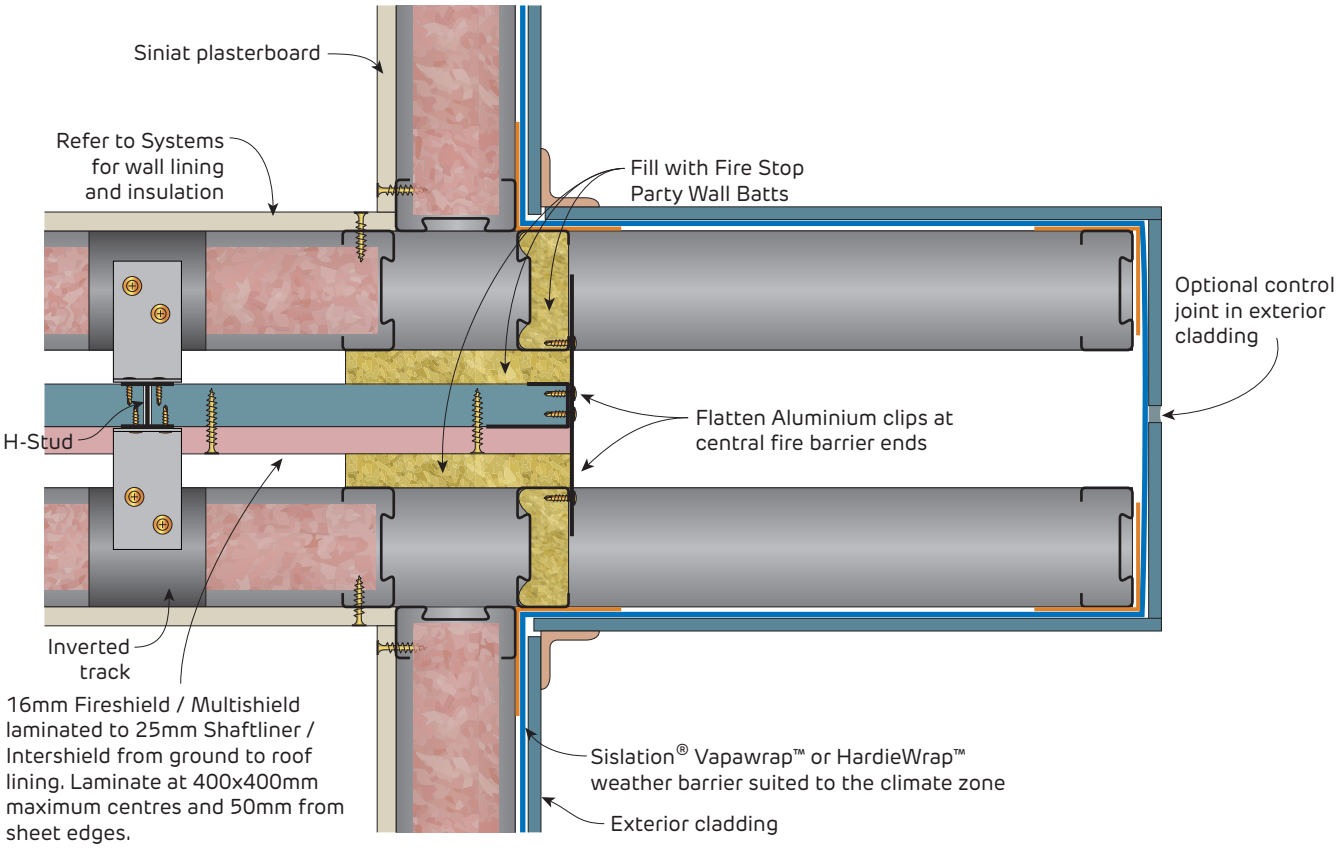
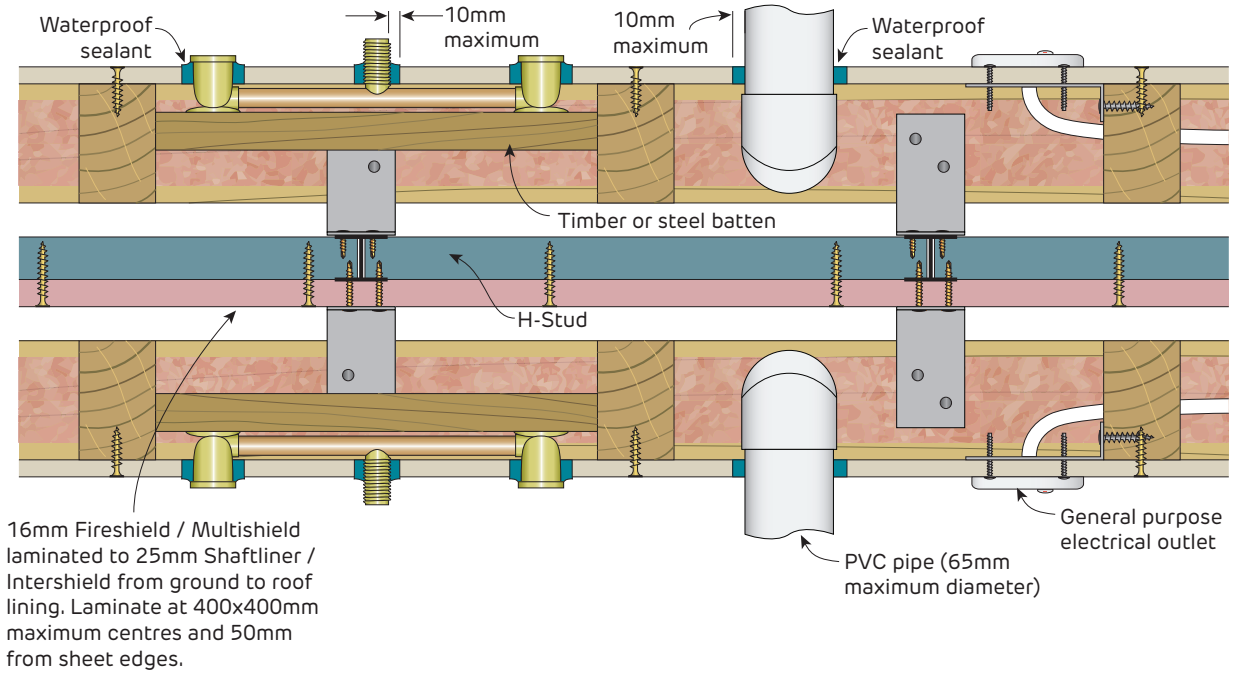


FIGURE 44 Interhome Wall with External Wall Extension
Steel Frame - FRL 90/90/90
Plan

Fire Rated
Penetration Details

Penetrations in wall linings can be back-to-back



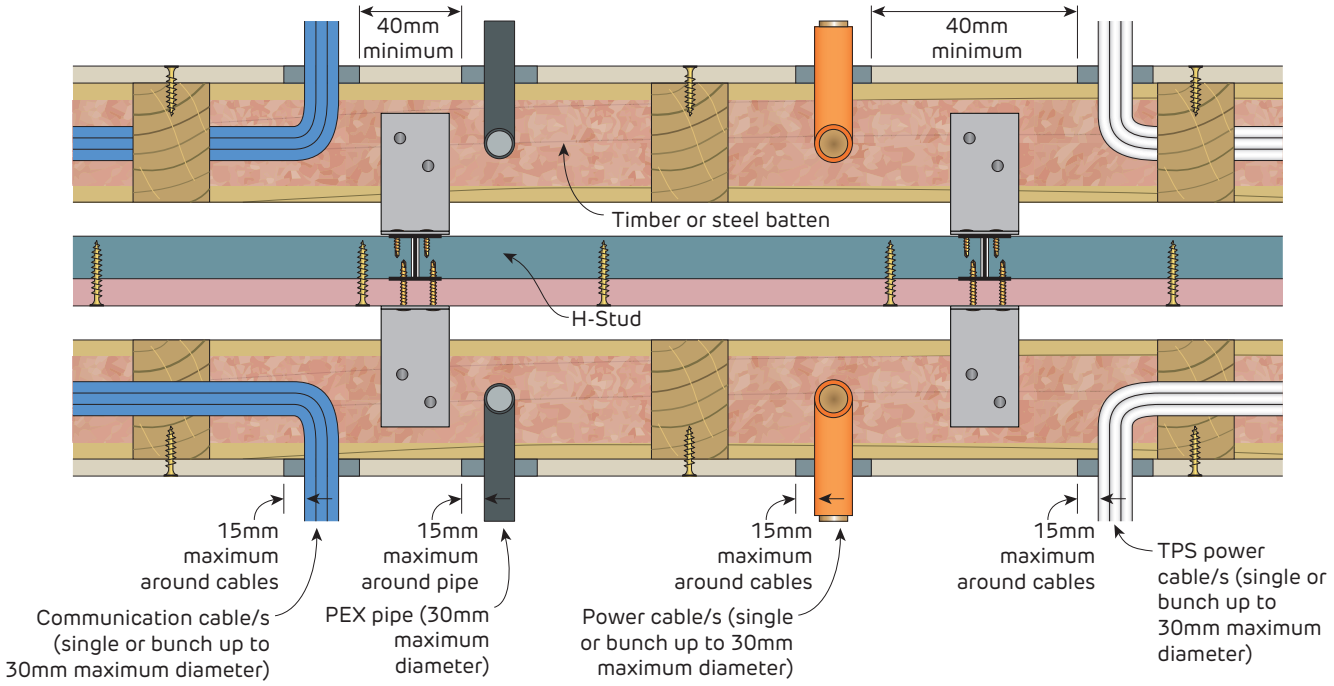
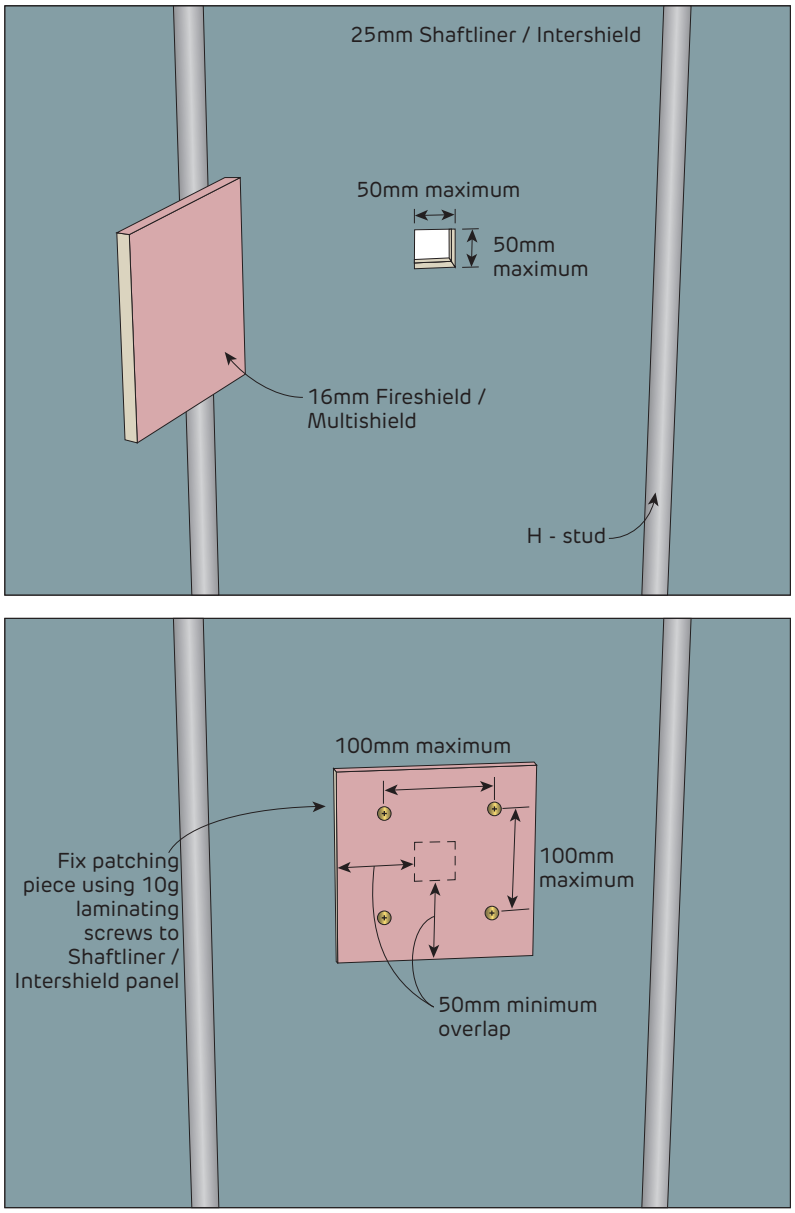


FIGURE 45 Plumbing and Electrical Penetrations in Wall Linings
FRL 90/90/90
Plan

Fire Rated

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



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

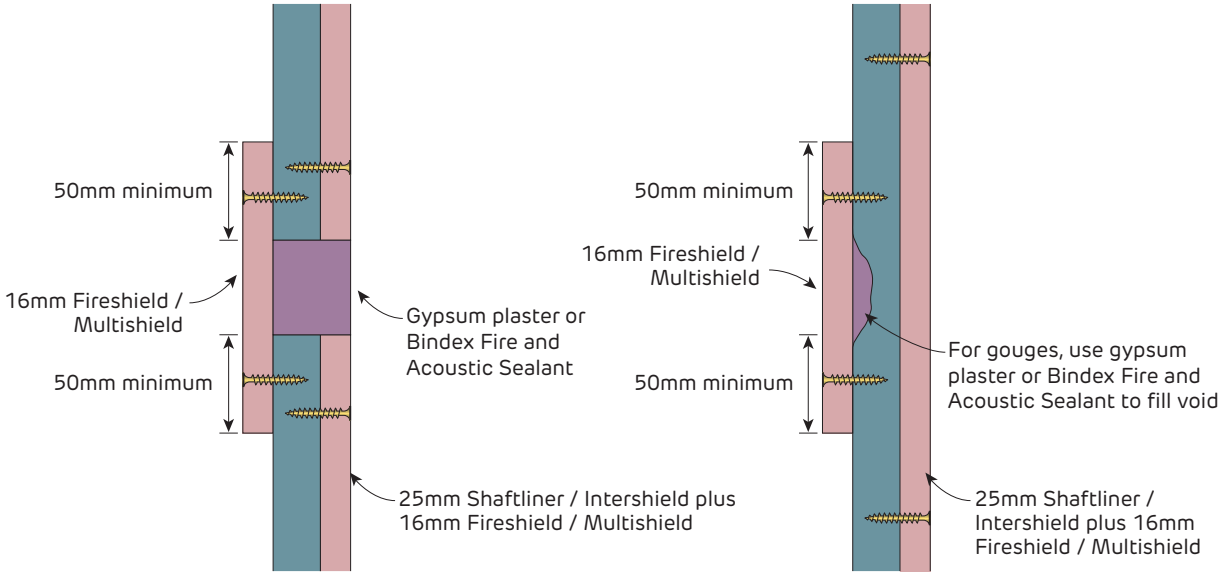
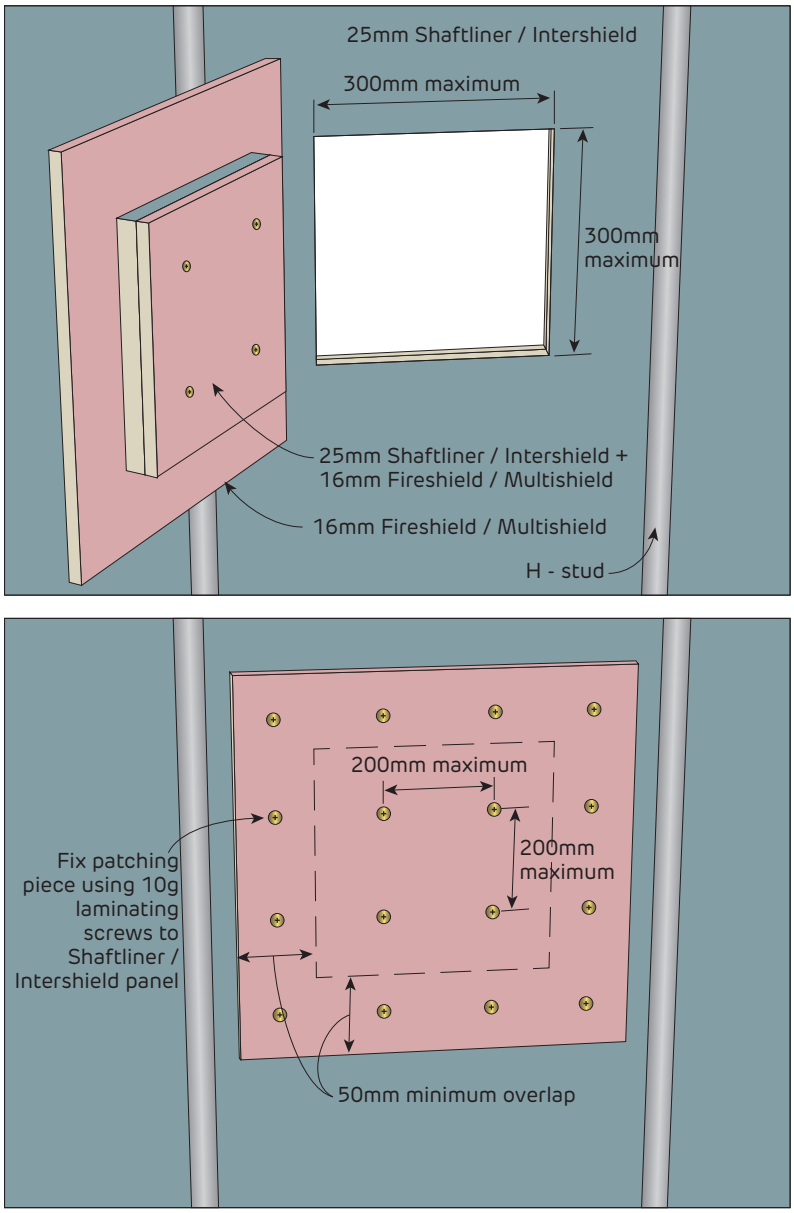


FIGURE 46 Fire Rated Patch for Central Fire Barrier
Section - FRL 90/90/90

Fire Rated

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



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

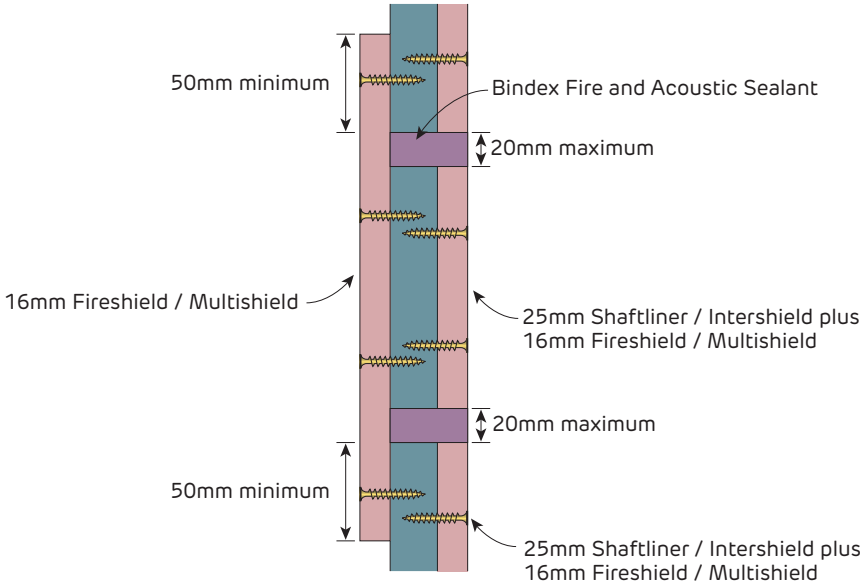
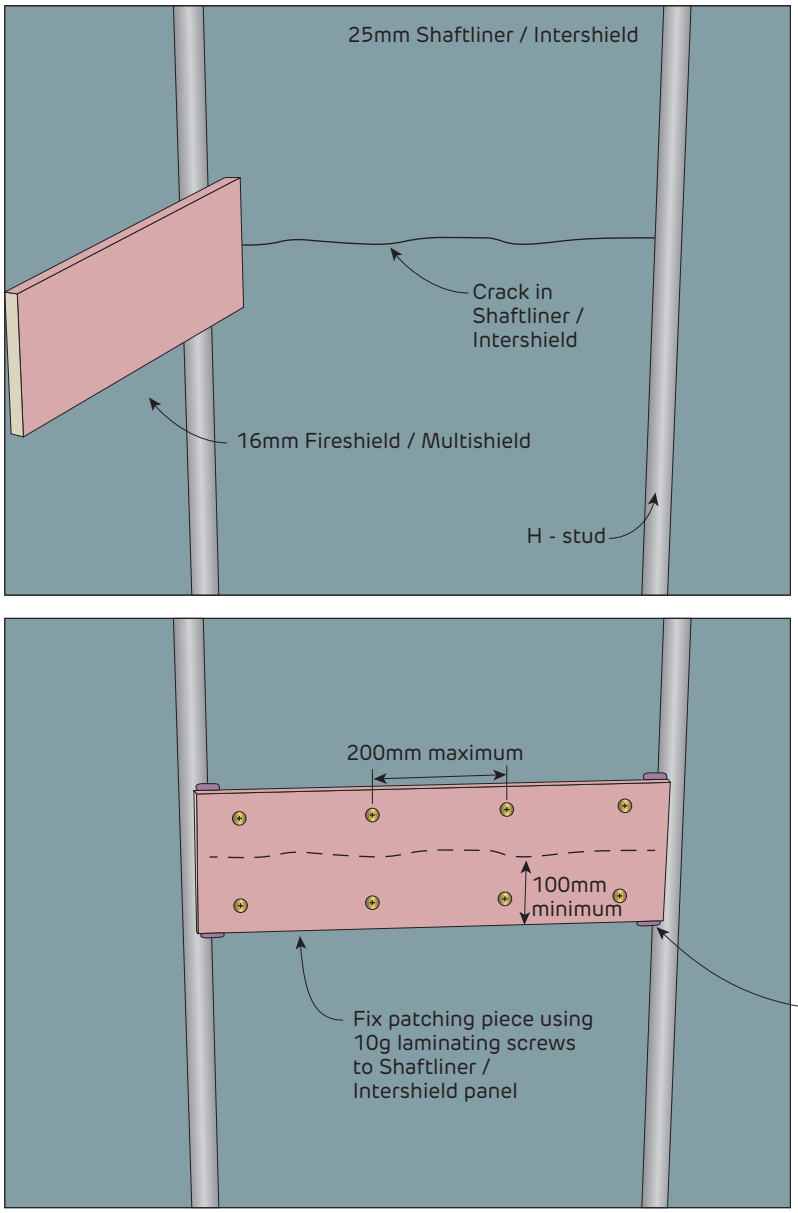


FIGURE 47 Fire Rated Patch for Central Fire Barrier
Section - FRL 90/90/90

Fire Rated

Patching of Central Fire Barrier - Crack in Shaftliner / Intershield



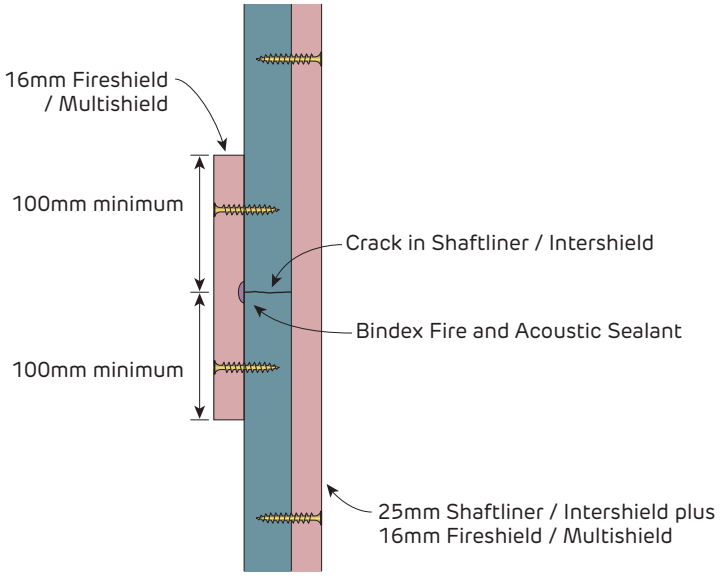


FIGURE 48 Fire Rated Patch for Central Fire Barrier Section - FRL 90/90/90

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