TBA Textiles Pty Ltd
ABN: 30 161 422 359
Issue Date: 17/03/2025

Installation Guide
FIREFLY RetroBatt 60

General Installation

Step 1 | Inspecting and preparing the frame

Check the dimensions of the wall, ensuring that the maximum height and span are observed.

Where the maximum span is exceeded, install additional framing.

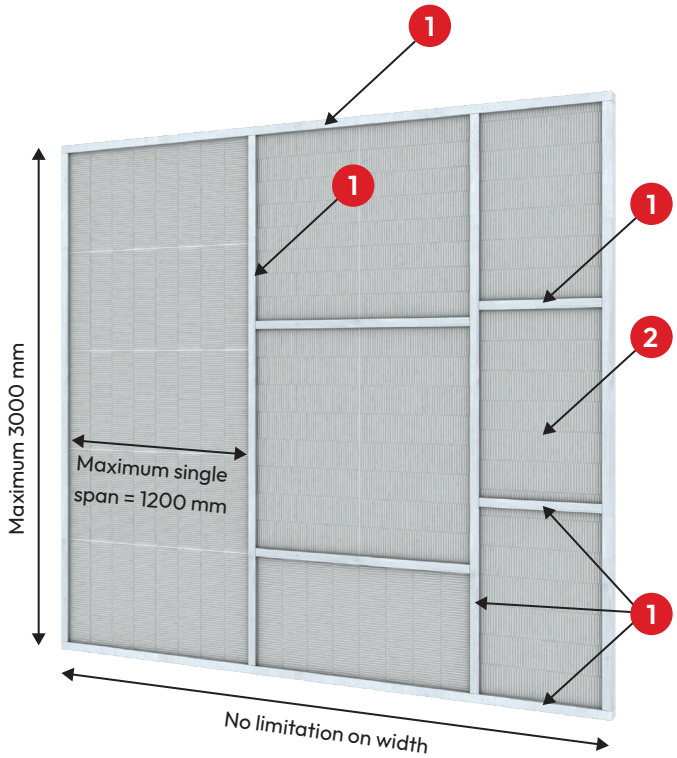
Rectangular walls

- Max. 3000 mm height
- Unlimited length
- Maximum span of 1200 mm
- Retrobatt 60 installed horizontally or vertically

Rectangular wall Arrangement

1 Timber framing - top and bottom, studs and noggins - made of MGP10 or greater density, coated with FIREFLYMasticBG.

2 RetroBatt 60



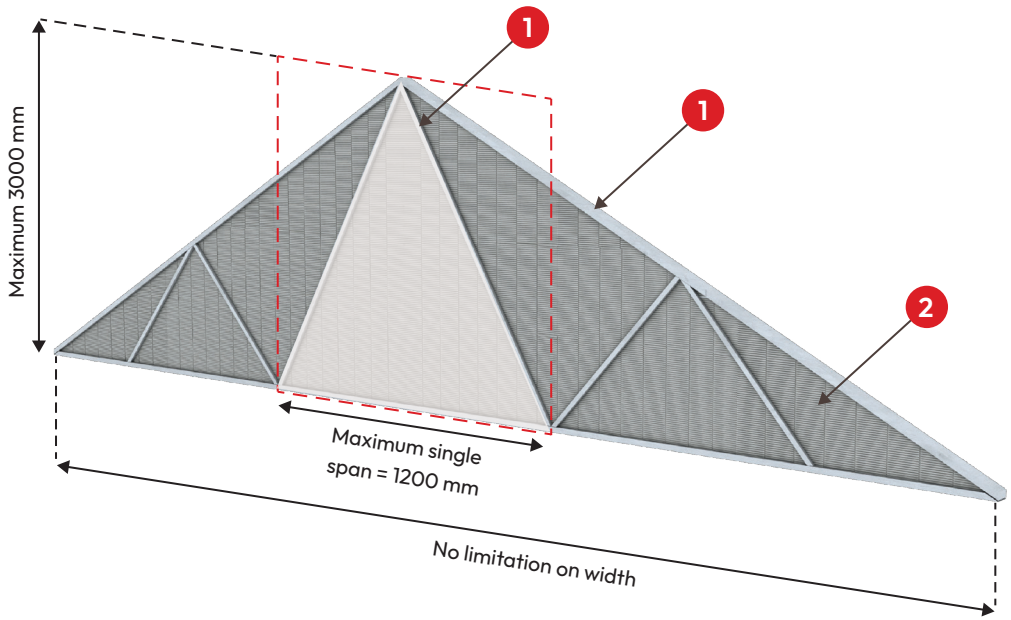
Step 1 | Inspecting and preparing the frame

Check the dimensions of the wall, ensuring that the maximum height and span are observed.

Where the maximum span is exceeded, install additional framing.

Triangular walls (roof spaces)

- Max. 3000 mm height between ceiling and peak of the roof
- Unlimited length
- Maximum longitudinal span of 1200 mm (aligned with the batts)
- Retrobatt 60 installed horizontally or vertically



Triangular wall Arrangement

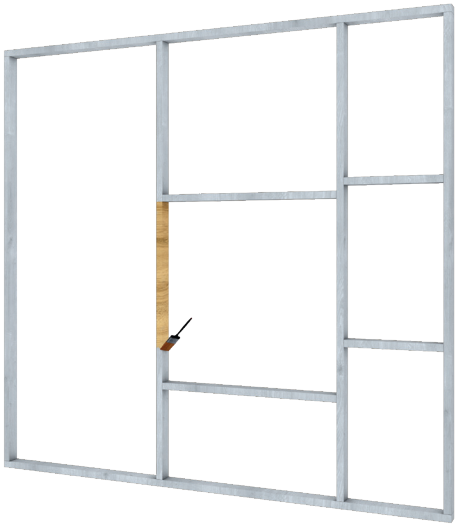
1 Timber framing - top and bottom, studs and noggins - made of MGP10 or greater density, coated with FIREFLYMasticBG.

2 RetroBatt 60

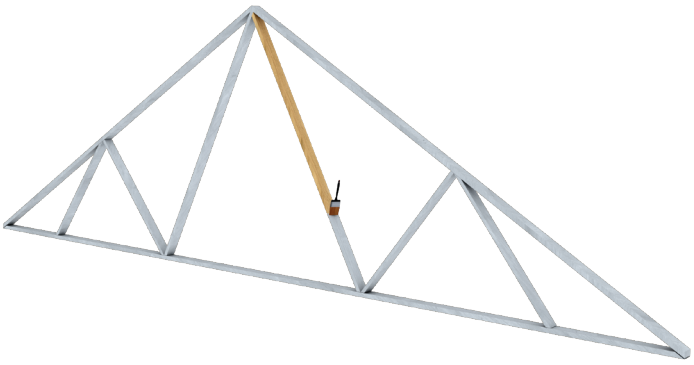
Step 2 | Painting the frame

Paint all the supporting timbers, including any additional supporting timbers installed, with a generous coating of FIREFLYMasticBG.

There is no required thickness of FIRELFLYMasticBG as long as all timbers are completely painted (not patchy).



Rectangular Wall Arrangement

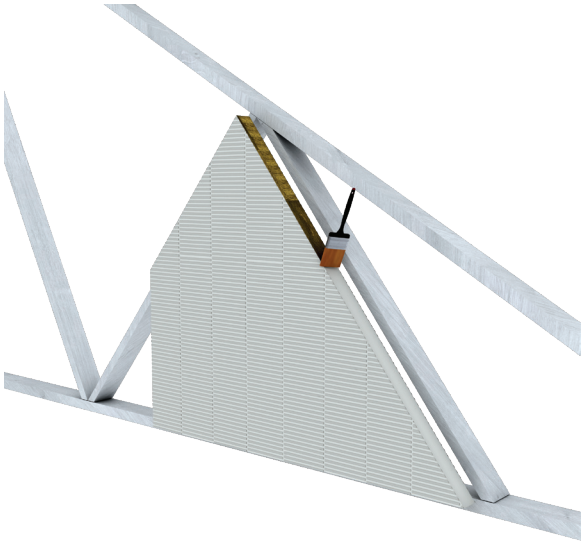


Triangular Wall Arrangement

Step 3 | Installing the RetroBatt 60 to the frame

First, paint the exposed edges of the RetroBatt 60 with FIREFLYMasticBG, ensuring that there are no exposed fibres.

Rectangular Wall Arrangement



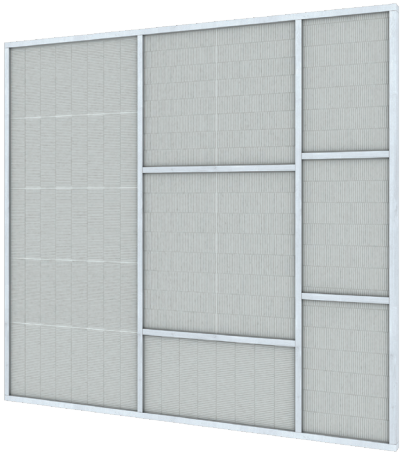
Triangular Wall Arrangement

Once the edges have been covered with FIREFLYMasticBG, friction-fit the painted RetroBatt 60 in between the frame members whilst the mastic is still wet on either, or both, the RetroBatt 60 and the timber framing. Apply more mastic if the coating has dried.

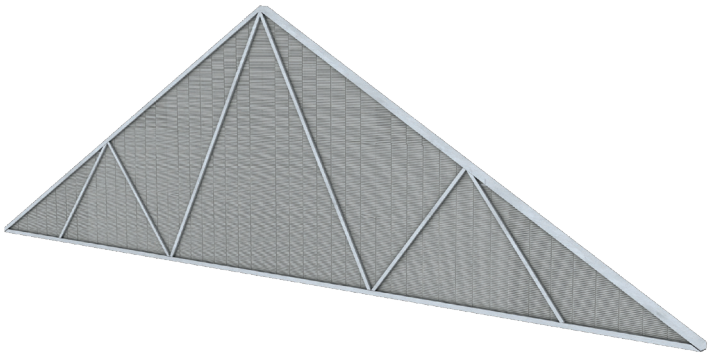
Install the adjacent RetroBatt 60 in the same way, but apply a 10 mm high, semi-circular bead of FIREFLYMastic to the edge of the already positioned piece, and friction fit the next piece into the frame and compress the bead of FIREFLYMastic down to < 1 mm.

Fill any small gaps with FIREFLYMastic to the entire depth of the RetroBatt 60.

Repeat the process until the entire wall section is completely filled with RetroBatt 60.



Completed rectangular Wall Arrangement



Completed triangular Wall Arrangement

Step 4 | Joint Sealing

Apply a 6 mm bead of FIREFLYMastic to all the joints between RetroBatt 60 pieces and flatten it for a smooth finish, where there are visible gaps .

Next, apply a 6 mm bead of FIREFLYMastic to all the joints between the RetroBatt 60 and the timber framing.

Apply the mastic to both sides of the assembly.

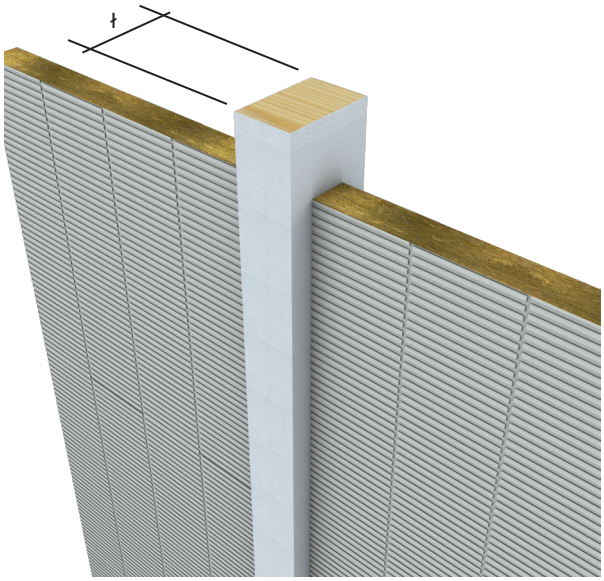
Gap filling RetroBatt60 joints

Joint sealing RetroBatt 60 to frame joint

Frame Protection

Frames with thickness (“ł”) >90 mm

No additional works required.



Frames with thickness (ł) from 60 mm to < 90 mm

Step 1 | Pattress fit FIREFLYBatt

Note: Apply frame protection to all the timber members, top and bottom rails, studs and noggins.

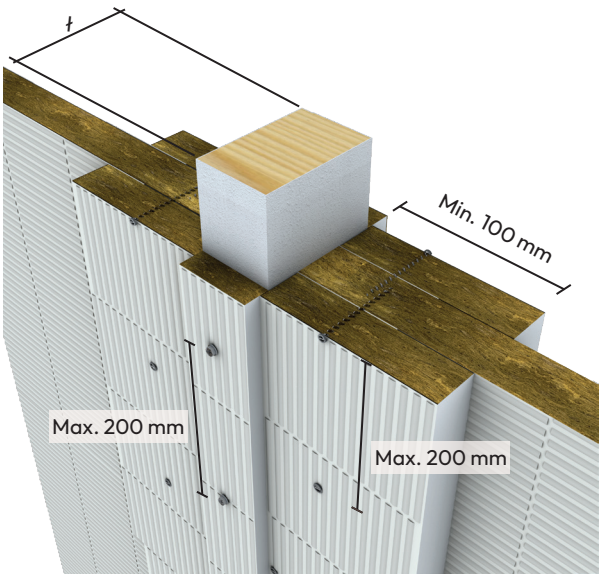
Cover the frame members with one layer of FIREFLYBatt, pattress fitting it.

Fix the FIREFLYBatt to the frame member using timber screws, maintaining max. 200 mm between fixings.

Pattress fit an additional 100 mm wide FIREFLYBatt onto the RetroBatt 60 along the frame member, on each side of it.

Fix the FIREFLYBatt to the RetroBatt 60 using min. 100 mm long pigtail screws, maintaining max. 200 mm between fixings.

Apply this detail to **both** sides of the assembly.



Step 2 | Paint the FIREFLYBatt

Paint the exposed edges of the FIREFLYBatt’s with FIREFLYMasticBG, ensuring full coverage and no exposed fibres.

Frames with thickness (“ł”) from 35 mm to < 60 mm

Step 1 | Pattress fit FIREFLYBatt

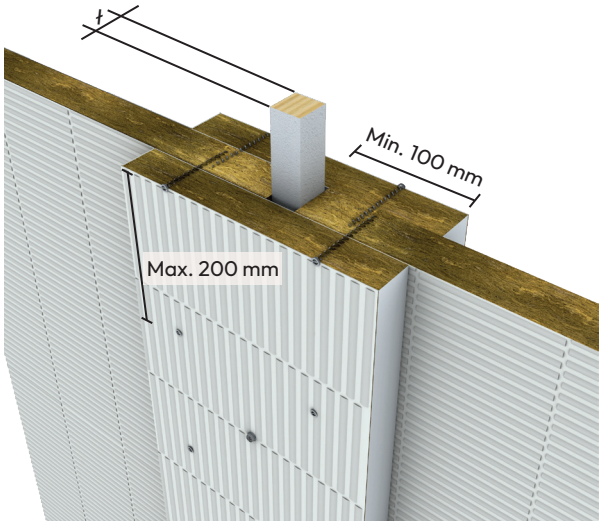
Note: Apply frame protection to all the timber members, top and bottom rails, studs and noggins.

Cover the frame members with one layer of FIREFLYBatt, pattress fitting it, ensuring that it overlaps the frame by minimum 100 mm onto the RetroBatt 60, along the frame member, on each side of it .

Fix the FIREFLYBatt to the RetroBatt 60 using min. 100 mm long pigtail screws, maintaining max. 200 mm between fixings .

For frames with a thickness < 60 mm, there will be an air gap between the frame and the pattress fit FIREFLYBatt.

Apply this detail to **both** sides of the assembly.



Step 2 | Paint the FIREFLYBatt

Paint the exposed edges of the FIREFLYBatt’s with FIREFLYMasticBG, ensuring full coverage and no exposed fibres.

Top and Bottom Cord Protection

Cords with thickness (ł) >90 mm

No additional works required.

Cords with thickness (“t”) from 60 mm to < 90 mm

Step 1 | Pattress fit FIREFLYBatt

Note: Apply protection to all the timber members – top and bottom cords, studs and noggings.Cover the cord with one layer of FIREFLYBatt, pattress fitting it.

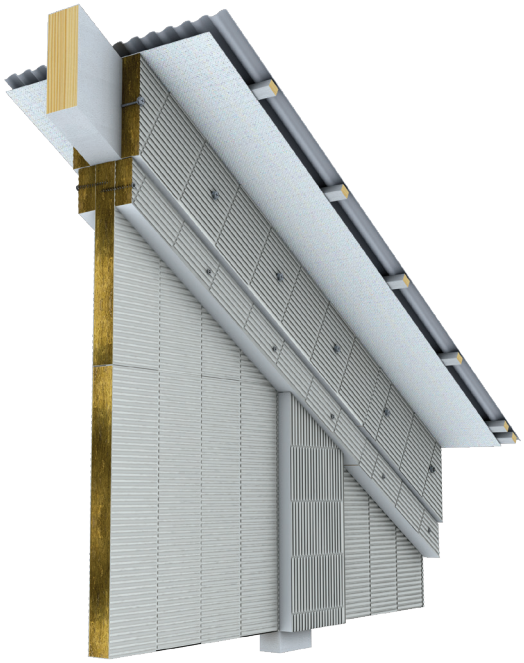
Cover the cord with one layer of FIREFLYBatt, pattress fitting it.

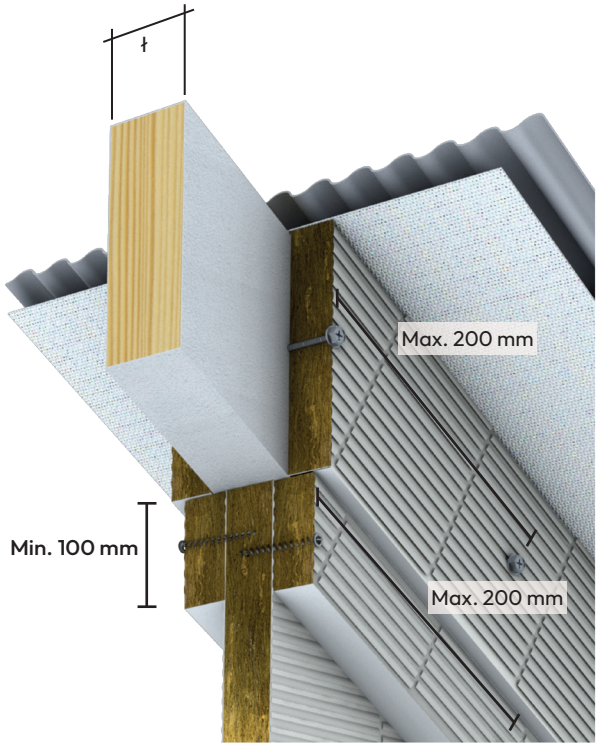
Fix the FIREFLYBatt to the cord using timber screws, maintaining max. 200 mm between fixings.

Pattress fit an additional 100 mm wide FIREFLYBatt onto the RetroBatt 60 along the cord, on the underside of it.

Fix the FIREFLYBatt to the RetroBatt 60 using min. 100 mm long pigtail screws, maintaining max. 200 mm between fixings.

Apply this detail to **both** sides of the assembly.





Step 2 | Paint the FIREFLYBatt

Paint the exposed edges of the FIREFLYBatt’s with FIREFLYMasticBG, ensuring full coverage and no exposed fibres.

Cords with thickness (“t”) from 35 mm to < 60 mm

Step 1 | Pattress fit FIREFLYBatt

Note: Apply protection to all the timber members – top and bottom cords, studs and noggings.Cover the cord with one layer of FIREFLYBatt, pattress fitting it.

Cover the cord with one layer of FIREFLYBatt, pattress fitting it.

Fix the FIREFLYBatt to the cord using timber screws, maintaining max. 200 mm between fixings.

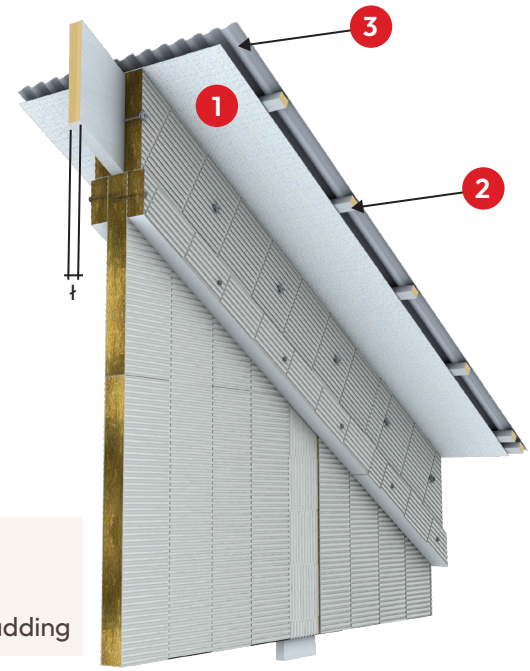
Pattress fit an additional 100 mm wide FIREFLYBatt onto the RetroBatt 60 along the cord, on the underside of it.

Fix the FIREFLYBatt to the RetroBatt 60 using min. 100 mm long pigtail screws, maintaining max. 200 mm between fixings.

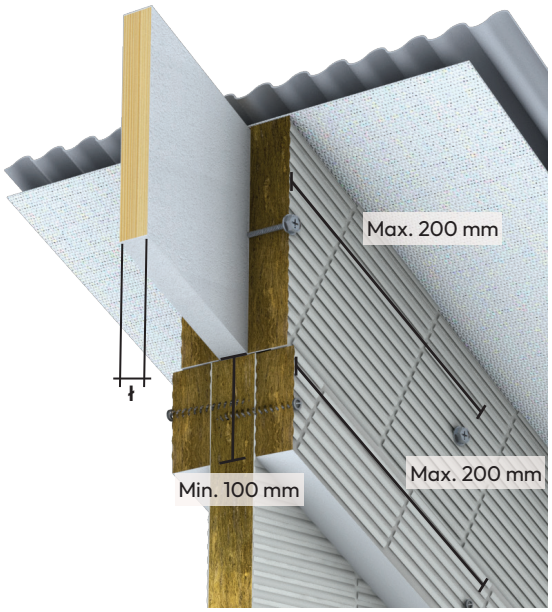
Apply this detail to **both** sides of the assembly.

Step 2 | Paint the FIREFLYBatt

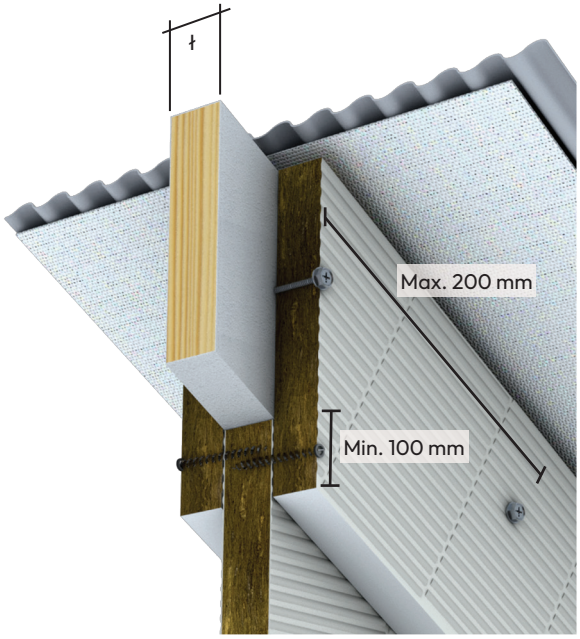
Paint the exposed edges of the FIREFLYBatt’s with FIREFLYMasticBG, ensuring full coverage and no exposed fibres.



1 Sarking
2 Batten
3 Roof tiles/cladding



Cord protection detail, for cords with thickness of 35mm to < 60 mm



Cord protection, alternative detail for cords with thickness of 60 mm

Unsarked Roof Protection

In addition to the installation instructions already outlined, for unsarked roofs, tightly pack the area between the top chord (or the top chord with cord protection) and the roof tiles/cladding, in between the roof battens, with FIREFLY Party Wall Batt, compressed by 15%.

Unsarked roof, general arrangement, FIREFLY Party Wall Batt above the cord

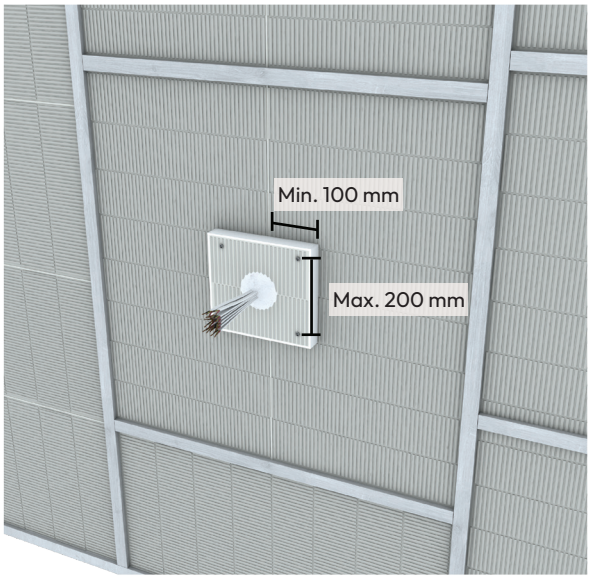
Unsarked roof, general arrangement, FIREFLY Party Wall Batt above the cord with cord protection

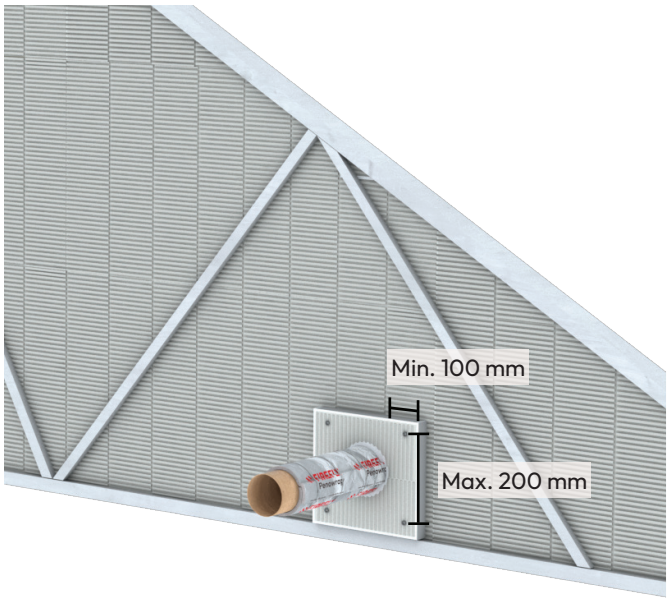
Service Penetrations

Step 1 | Pattress fit FIREFLYBatt

Pattress fit a rectangular piece of FIREFLYBatt where the service penetrates, extending min. 100 mm from the service in any direction .

The FIREFLYBatt pattress is to be glued to the RetroBatt 60 using FIREFLYMasticBG. The exposed edges of the pattress are also to be painted using FIREFLYMasticBG. Fix the FIREFLYBatt to the RetroBatt 60 using min. 100 mm long pigtail screws, maintaining max. 200 mm between fixings .





Step 2 | Treating the service penetration

Treat the services as per referred in the relevant ID from the report FAS190235 (services passing through FIREFLYBatt seal).

Timber Penetrations

Penetrations up to 44 mm x 44 mm sections penetrating the RetroBatt 60

Step 1 | Treating the penetration

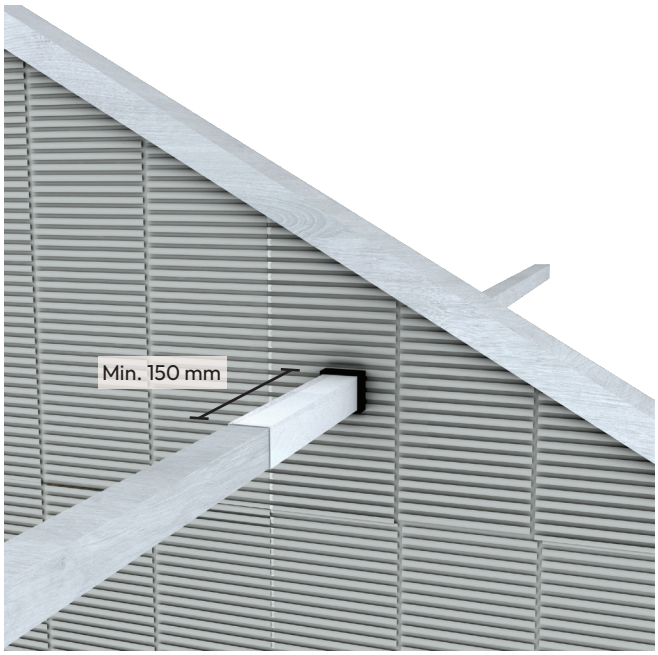
Where the timber penetrates the RetroBatt 60, ensure that the penetration has maximum annular gap of 5 mm.

Treat the annular gap with FIREFLYMastic HP to the full depth of the RetroBatt 60.

Step 2 | Painting the timber

Paint the timber generously on each side of the penetration using FIREFLYMasticBG, for a minimum length of 150 mm.

Note: For roof batten details, please refer to clause C3D8 (1)(c) of the 2022 NCC – Volume One.



RetroBatt 60 wall abutting to other wall systems

Step 1 | Installing RetroBatt 60 the frame and abutting wall

Paint the exposed edges of the RetroBatt 60 with FIREFLYMasticBG so there are no exposed fibres.

Friction-fit the painted RetroBatt 60 in-between the frame member and the abutting wall whilst the FIREFLYMasticBG is still wet on either, or both, the RetroBatt edge and the abutting wall. Apply more FIREFLYMasticBG if the coating has dried.

Step 2 | Joint Sealing

Apply a 6 mm bead of FIREFLYMastic to all the joints between the RetroBatt 60 and the abutting wall, on both sides of the assembly.