

Installation Guide

FIREFLY® FB180 – Ablative Batt Wall

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FIREFLY® FB180 - Ablative Batt Wall

INTRODUCTION

The FIREFLY® Ablative Batt Wall system is a compartmentalisation solution consisting of FIREFLY® Ablative Batts supported by a 4" x 2" (90mm x 38mm minimum) timber frame.

If the trusses/supporting timber are out of line with the compartmentalisation then a new frame can be assembled in the required location. (As per detail B-004).

If timbers smaller than 4" x 2" are present within the assembly they must be protected with a Batt Pattress. (As per detail B-002).

A Batt Wall constructed of FB180 60mm is rated for 90 minutes Integrity and 60 minutes Insulation.
A Batt Wall constructed of FB180 50mm is rated for 60 minutes Integrity and 30 minutes Insulation.

MATERIALS REQUIRED:

FIREFLY® FB180 Ablative Batt
60mm - EI 90/60
50mm - EI 60/30

FIREFLY® Ablative Coating

FIREFLY® Intumescent Acrylic

Additional 4" x 2" (90mm x 38mm) Timbers



BATT ORIENTATION

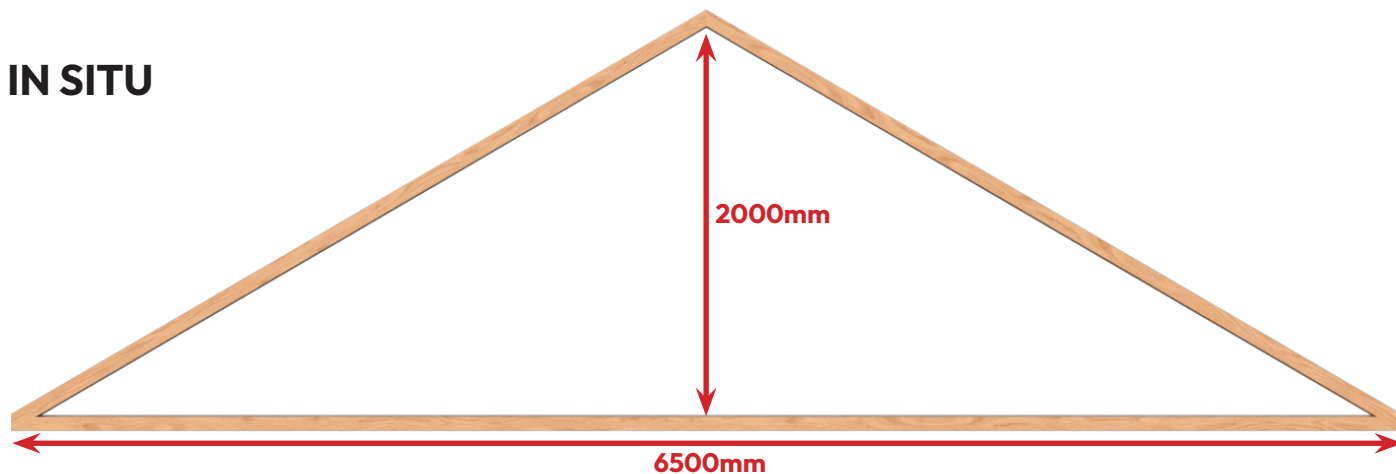
The FIREFLY® Ablative Batt wall system has two main arrangements.

The area can be segmented into either 600mm sections or 1200mm sections

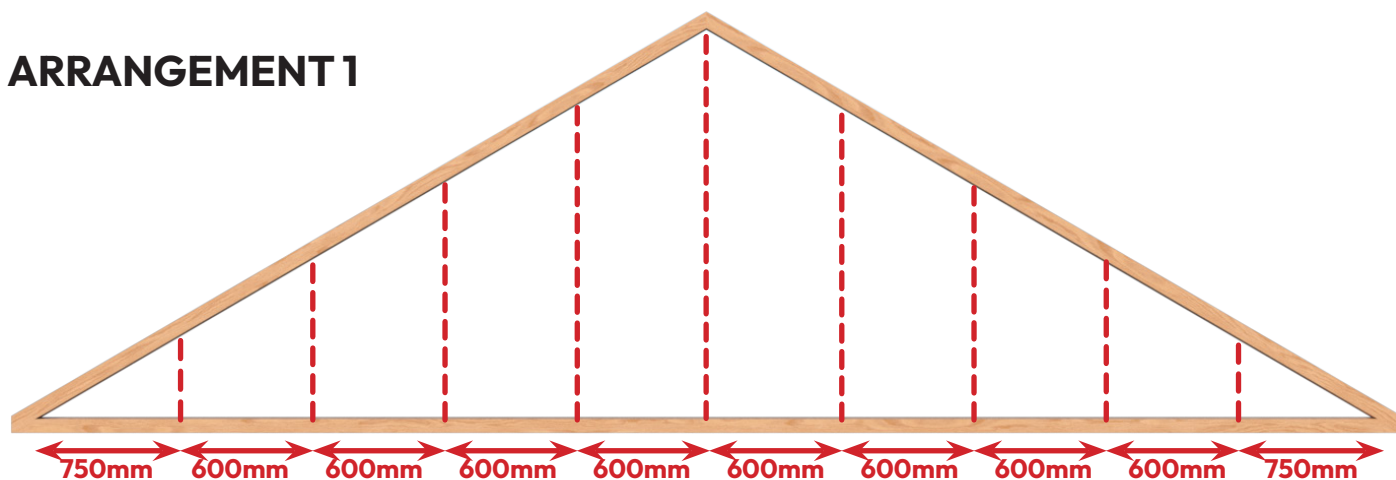
Arrangement 1: Ablative Batts fit vertically between the timbers so the pattern on the Batt runs vertically.

Arrangement 2: Ablative Batts fit horizontally between the timbers so the pattern on the Batt runs horizontally.

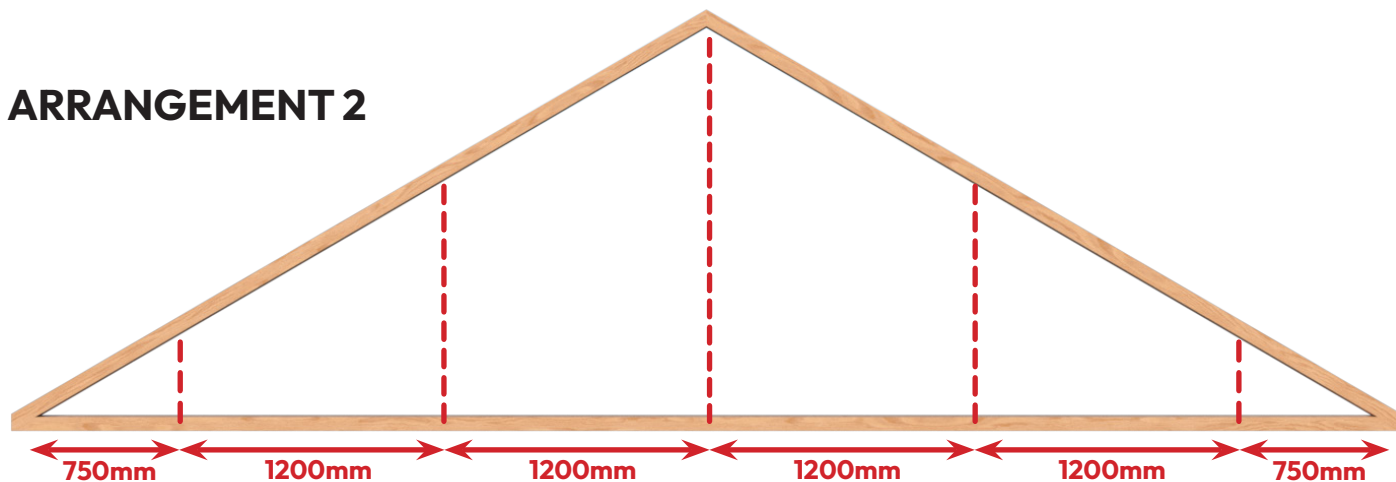
IN SITU

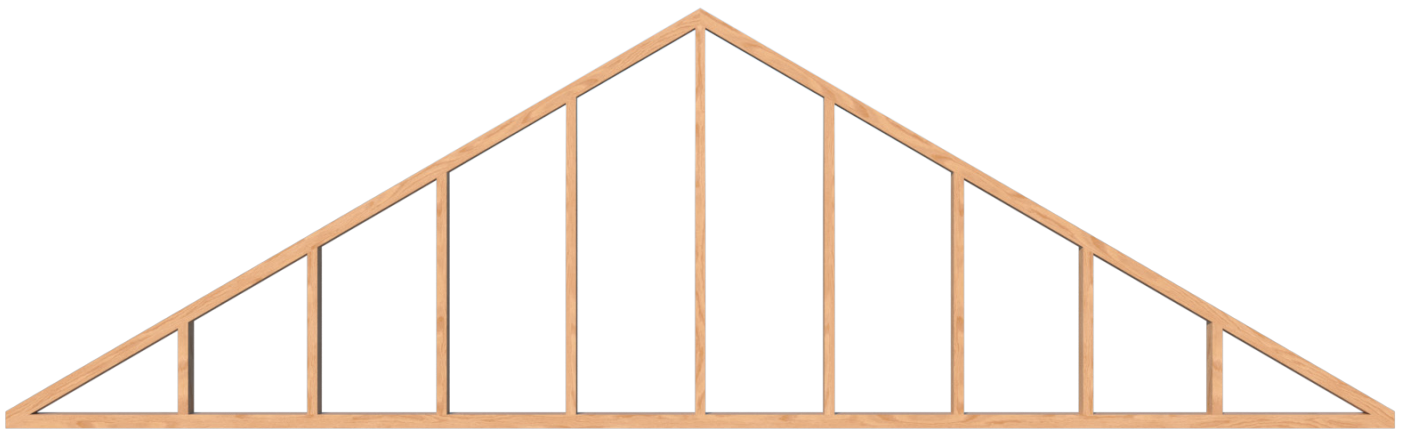
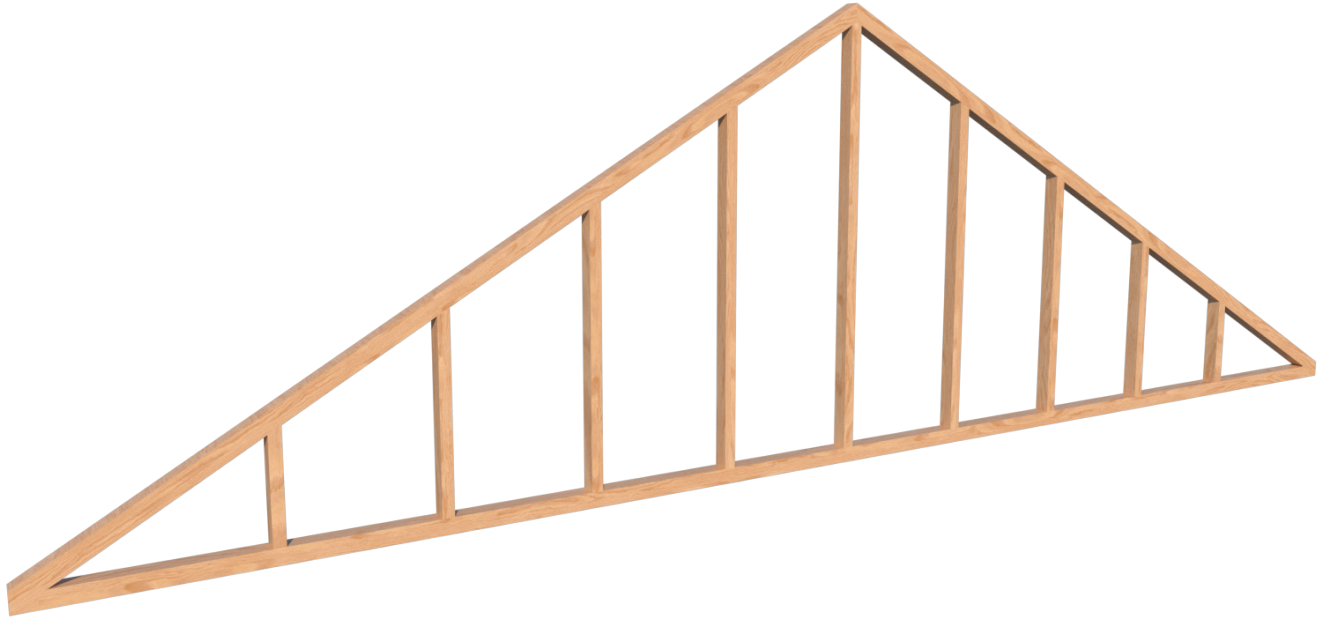


ARRANGEMENT 1



ARRANGEMENT 2

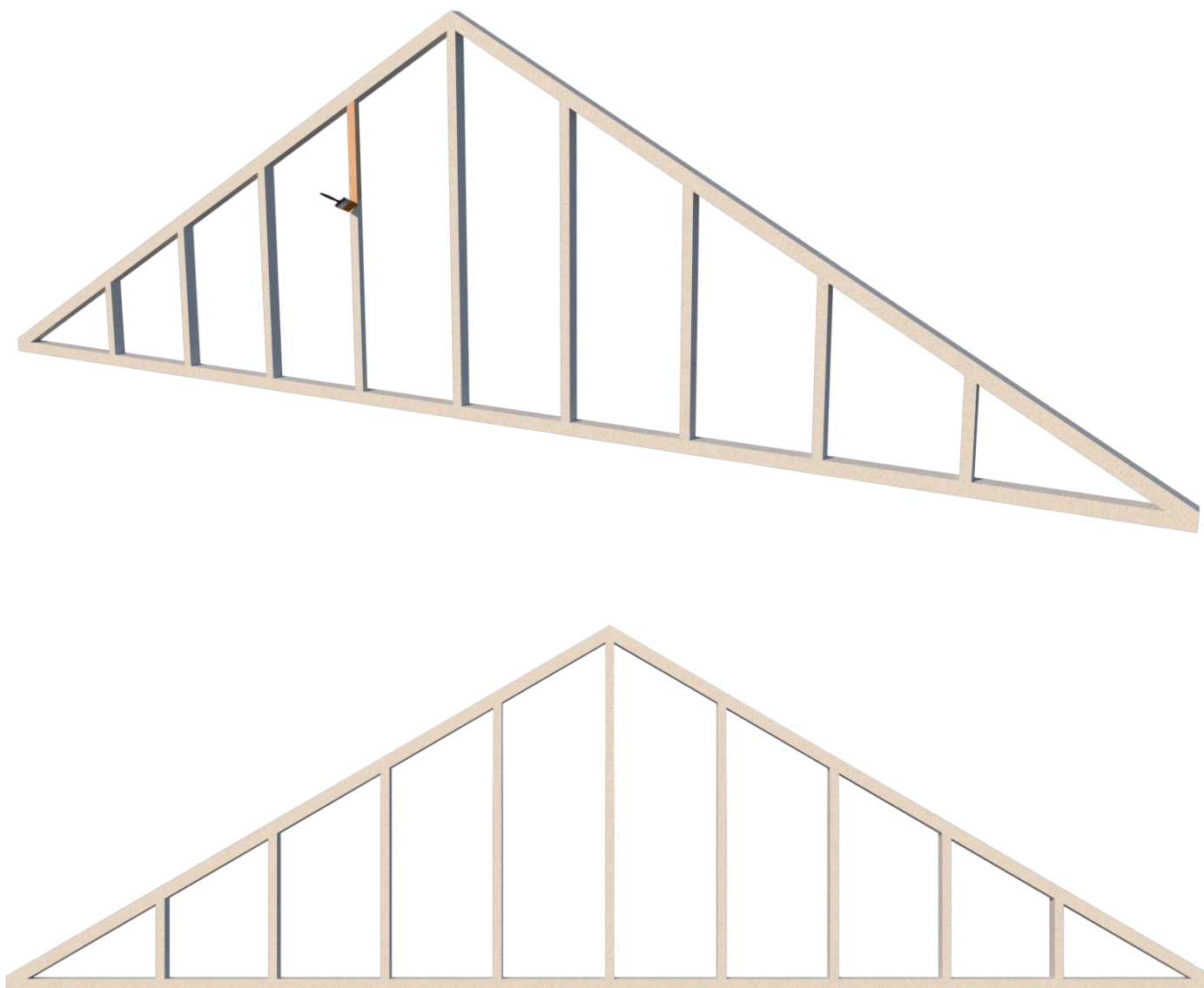




FIXING SUPPORTING TIMBER

4" x 2" (90mm x 38mm) timbers are installed at roughly either 650mm centres or 1250mm centres to create 600mm or 1200mm segments.

You should be able to friction fit a single Batt between the timbers. It is recommended to create segments approx 2mm smaller to ensure a tight fit.

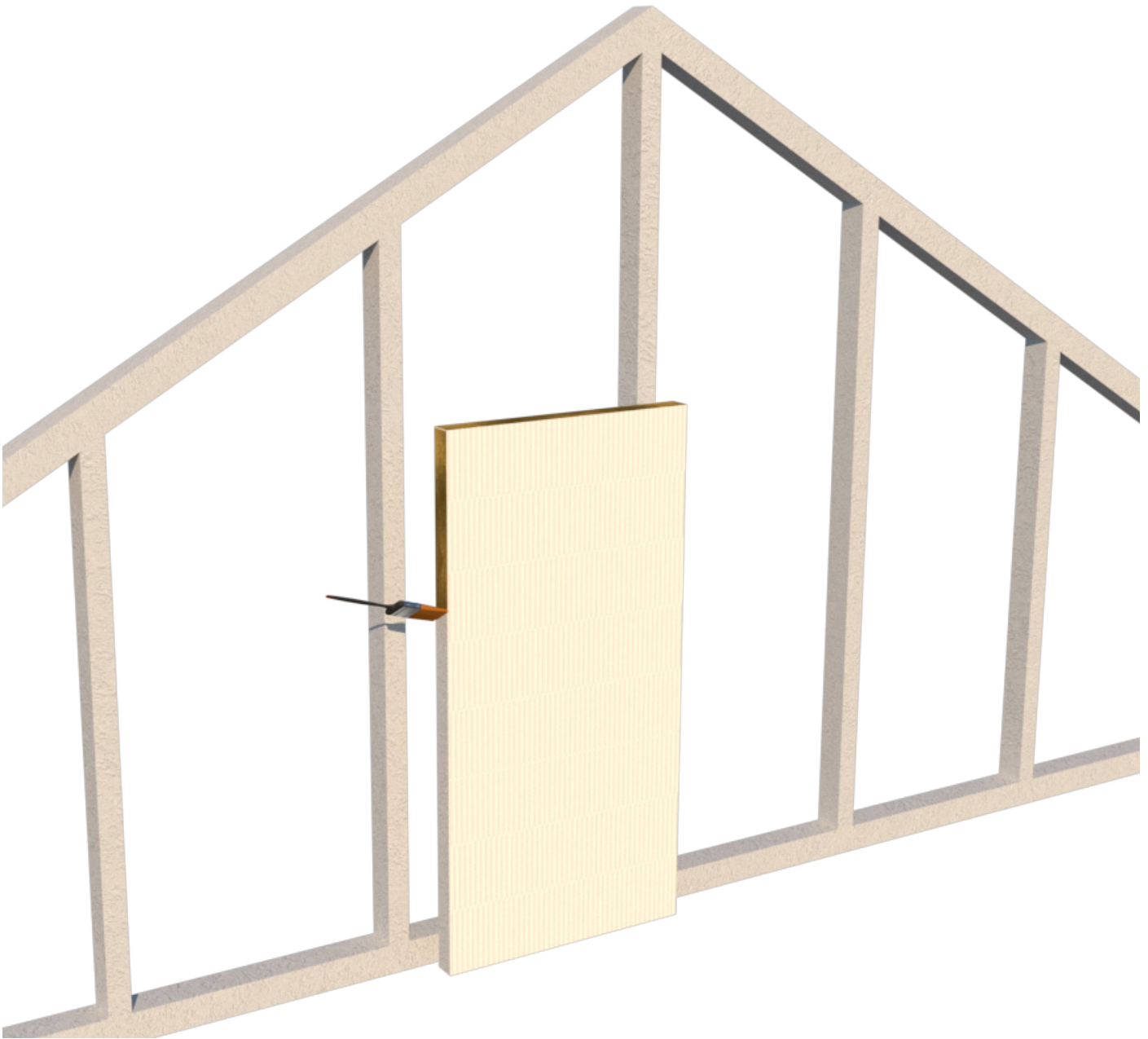


PAINTING SUPPORTING TIMBER

All supporting timbers are painted with FIREFLY® Ablative Coating.

If the frame is supported by additional timber that timber must also be painted with FIREFLY® Ablative Coating.

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



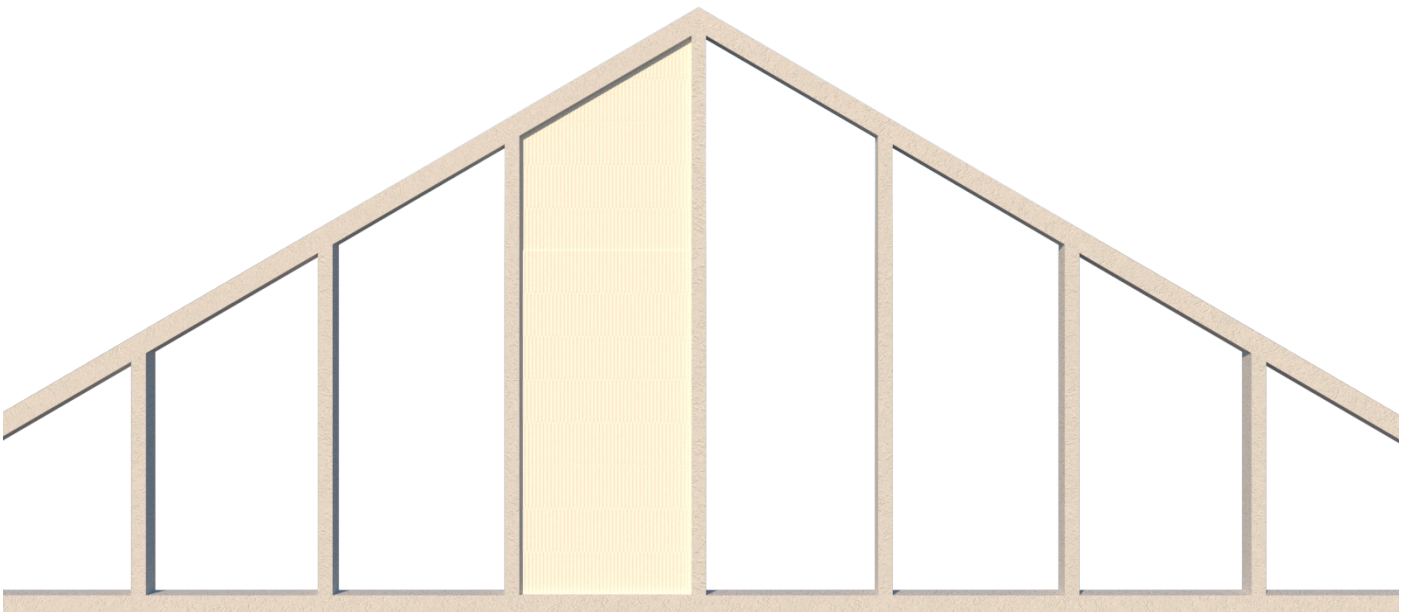
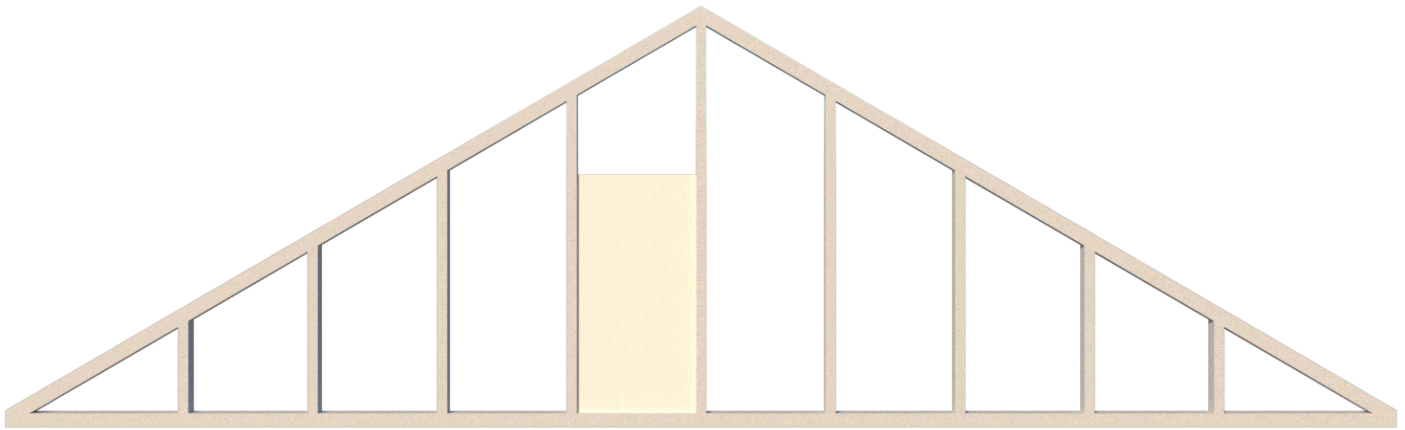
BUTTERING THE ABLATIVE BATTS

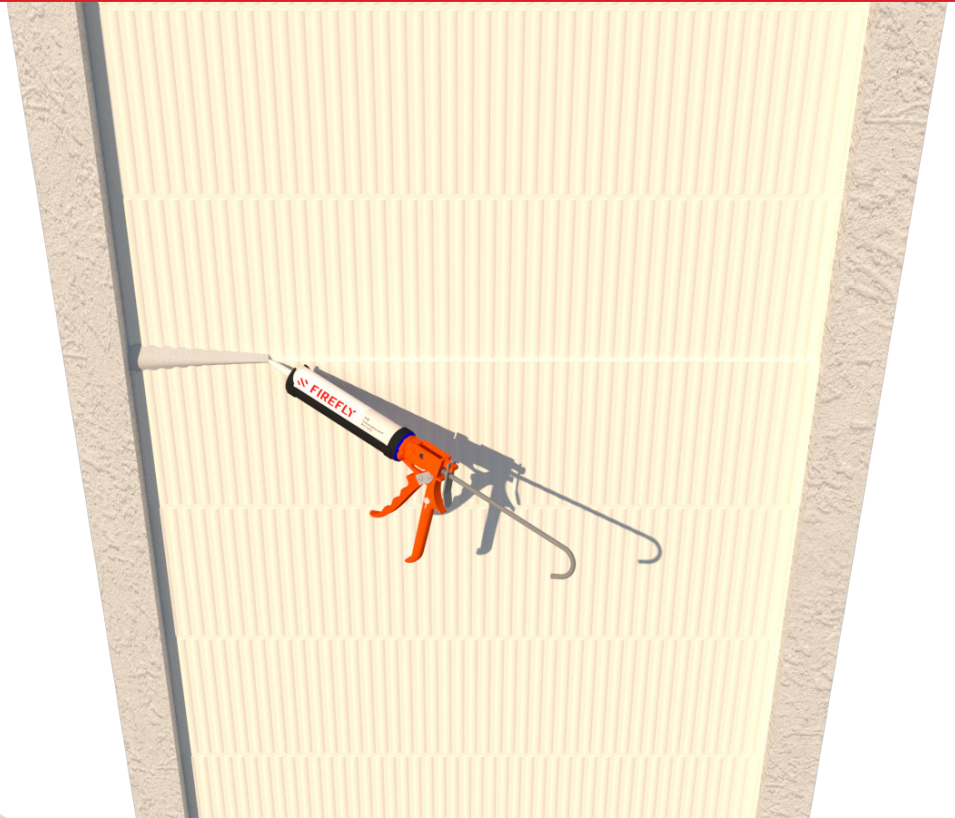
The exposed edges of the Batt are buttered with FIREFLY® Ablative Coating so that no exposed Batt fibre remains.

FRICTION FITTING ABLATIVE BATTS

The freshly buttered Batt is friction fit in-between the timbers.
Small gaps up to 3mm can be infilled with FIREFLY® Intumescent Acrylic, the infill must extend the entire depth of the Batt.

This detail is repeated until the section is completely filled.





SEALING BATT JOINTS

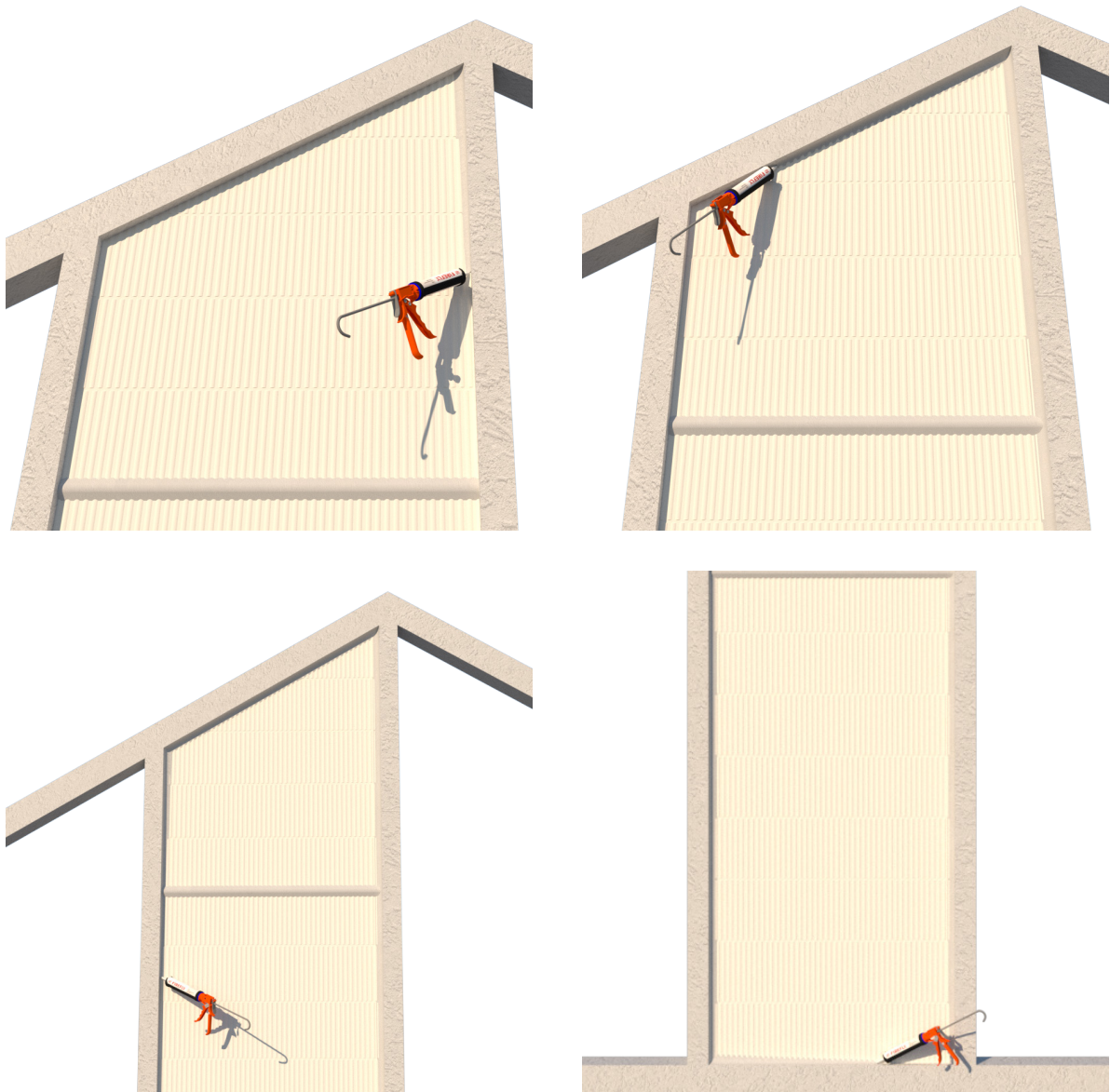
A 6mm bead of FIREFLY® Intumescent Acrylic is applied and flattened over the joint.

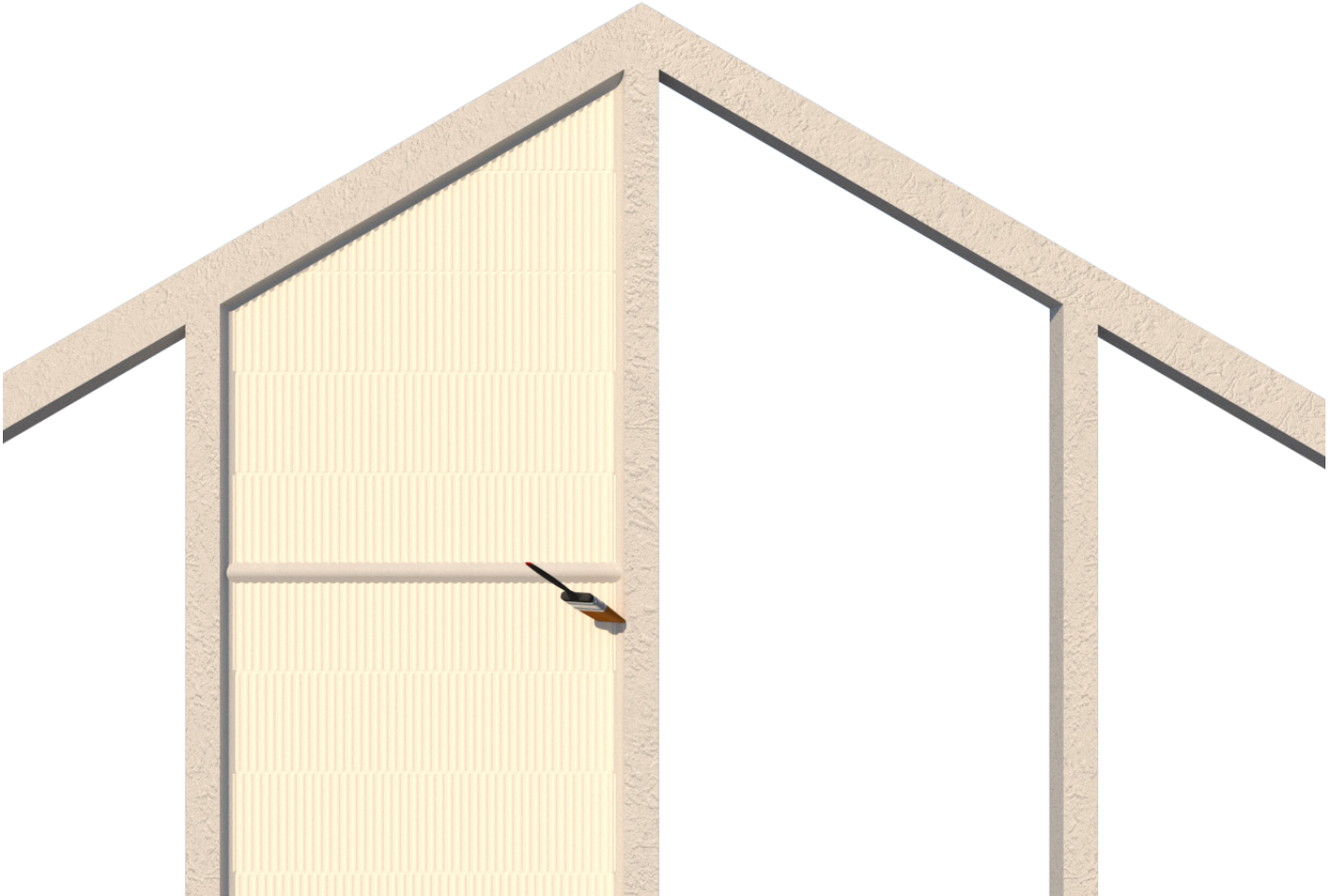
This detail is required on BOTH sides of the assembly.

SEALING TIMBER JOINTS

A 6mm bead of FIREFLY® Intumescent Acrylic is applied around the outer perimeter of the Batts, between the Batt and the timbers.

This detail is required on BOTH sides of the assembly.





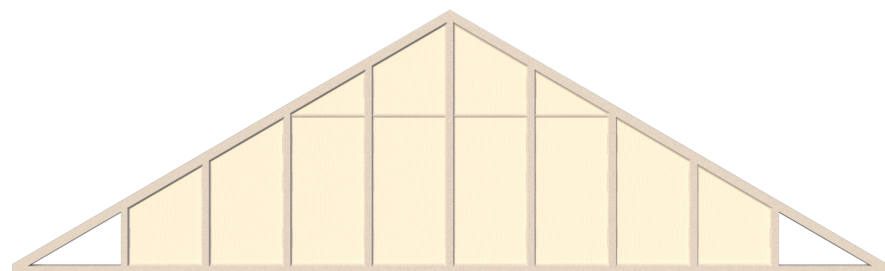
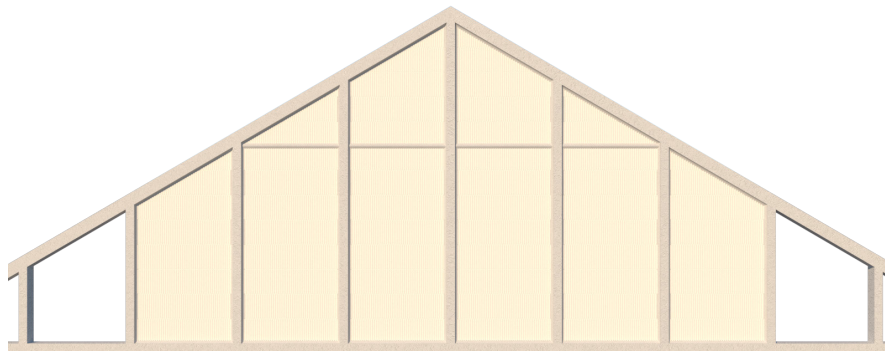
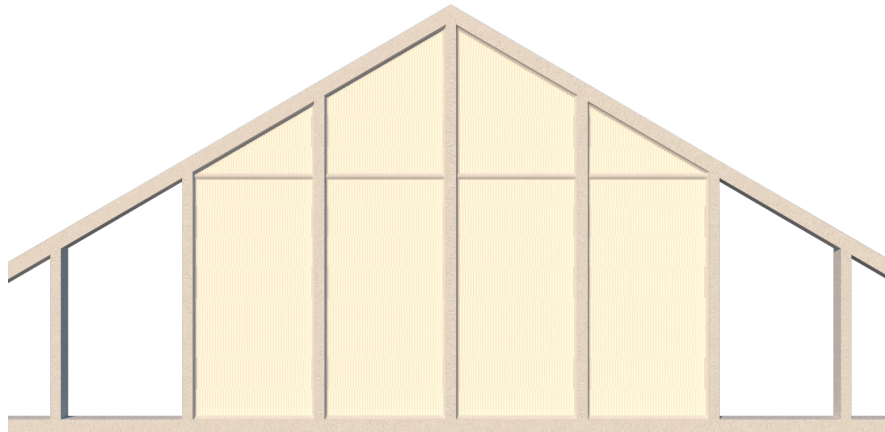
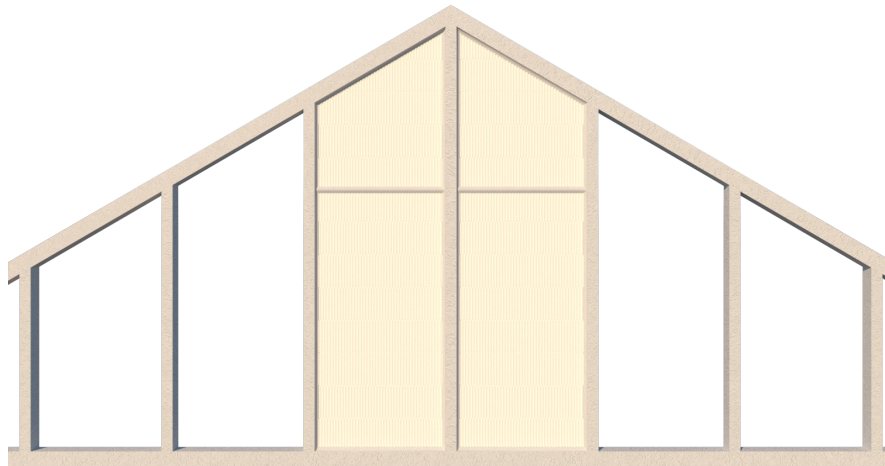
AESTHETIC FINISHING

If aesthetics are a concern, the Intumescent Acrylic joints/seals can be dramatically neatened by painting over softly with a damp brush - excess water should be drained before brushing.

This is purely an aesthetic detail and is not a requirement to achieve the fire rating of the system.

REPEAT

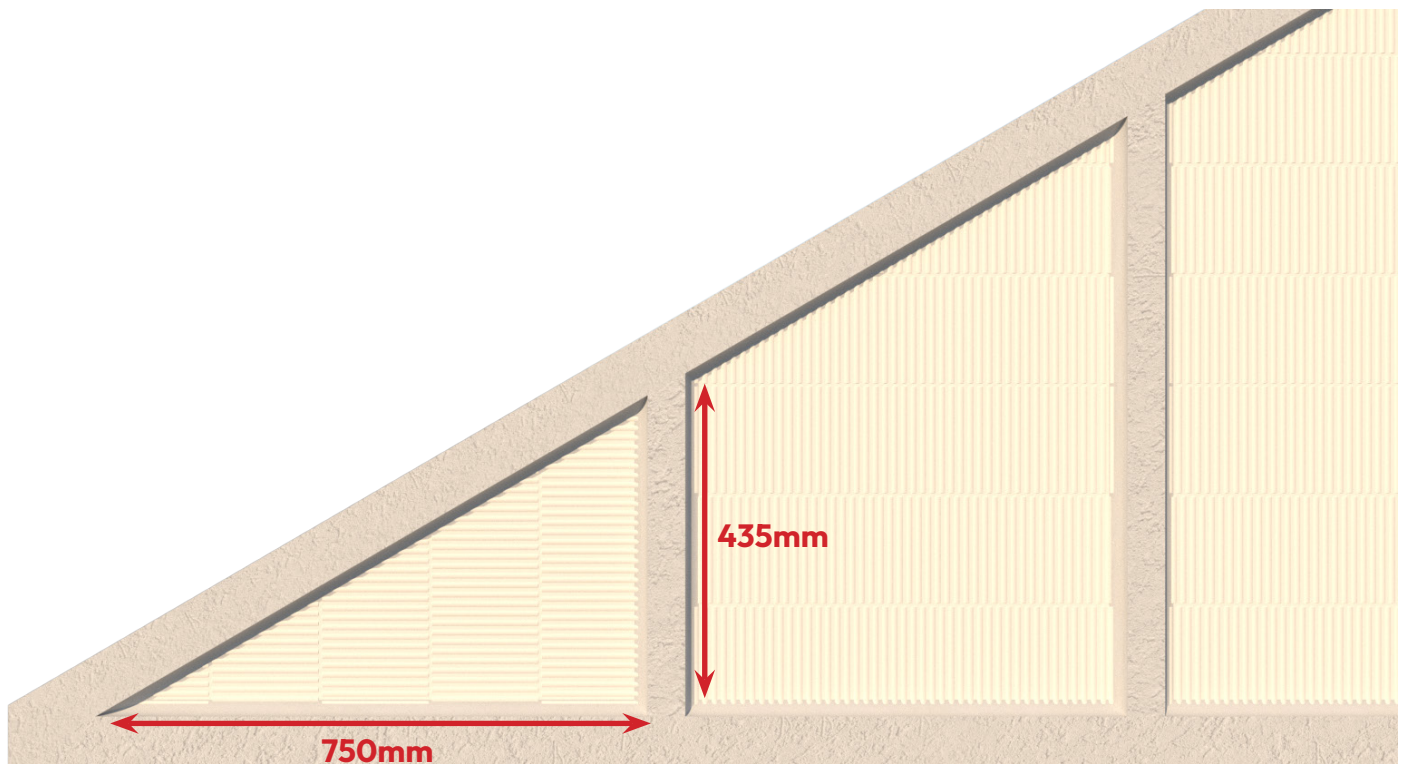
The previous details of buttering the Batt, friction fitting it and sealing the joints is repeated (Steps 5-9) until all remaining segments are completed.

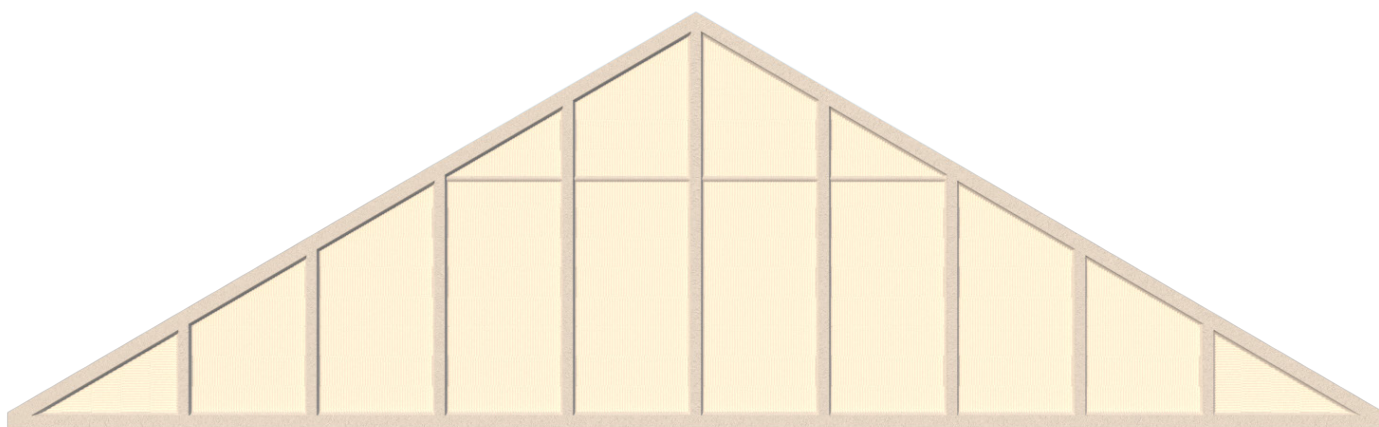


ALTERNATIVE ORIENTATION

Orientations can be mixed and matched to suit your situation as long as it is suitably supported by 4" x 2" Timbers.

The Batt is to be buttered with FIREFLY® Ablative Coating, friction fit between the timbers and joints sealed with a 6mm bead of FIREFLY® Intumescent Acrylic.





COMPLETED BATT WALL

The completed Ablative Batt Wall should be free of damage, with no exposed timber or Batt fibres visible.

All joints must be sealed with a 6mm bead of FIREFLY® Intumescent Acrylic on BOTH sides of the assembly.

