

Installation Guide

FIREFLY® FB180 – Ablative Batt Floor

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Installation Guide

FIREFLY® FB180 - Ablative Batt Floor

INTRODUCTION

The FIREFLY® Ablative Batt Floor system is a horizontal compartmentalisation solution consisting of FIREFLY® Ablative Batts supported by pre-existing 4" x 2" (90mm x 38mm) timbers.

The Ablative Batt Floor system can be fit over non-fire rated flooring systems like lath and plaster ceilings or as a standalone system as long as its fit within suitable joists (90mm x 38mm minimum thickness).

The Ablative Batt Floor system can be fit from below or above with restricted access and was tested as such.

(See detail B-100 from above).

(See detail B-101 from below).

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

The Ablative Batt Floor system is a compartmentalisation solution ONLY and does not provide/contribute to the load bearing capacity.

MATERIALS REQUIRED:

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

FIREFLY® Ablative Coating

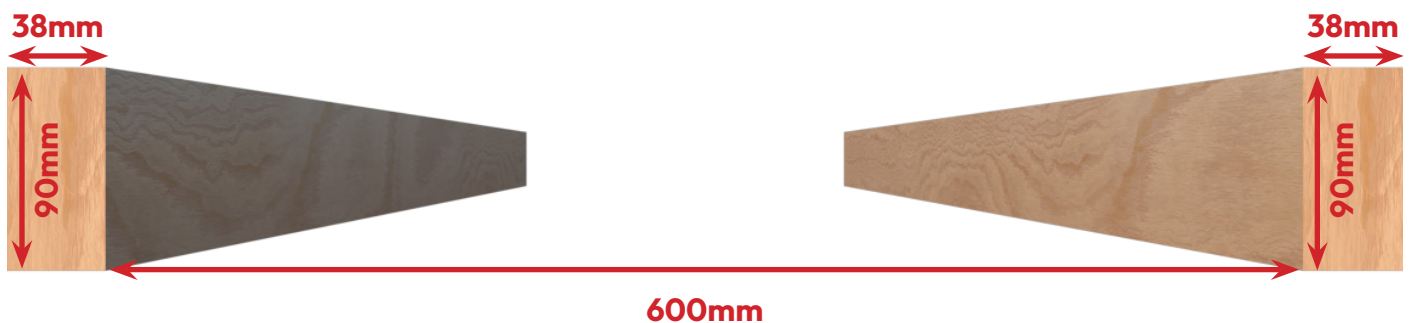
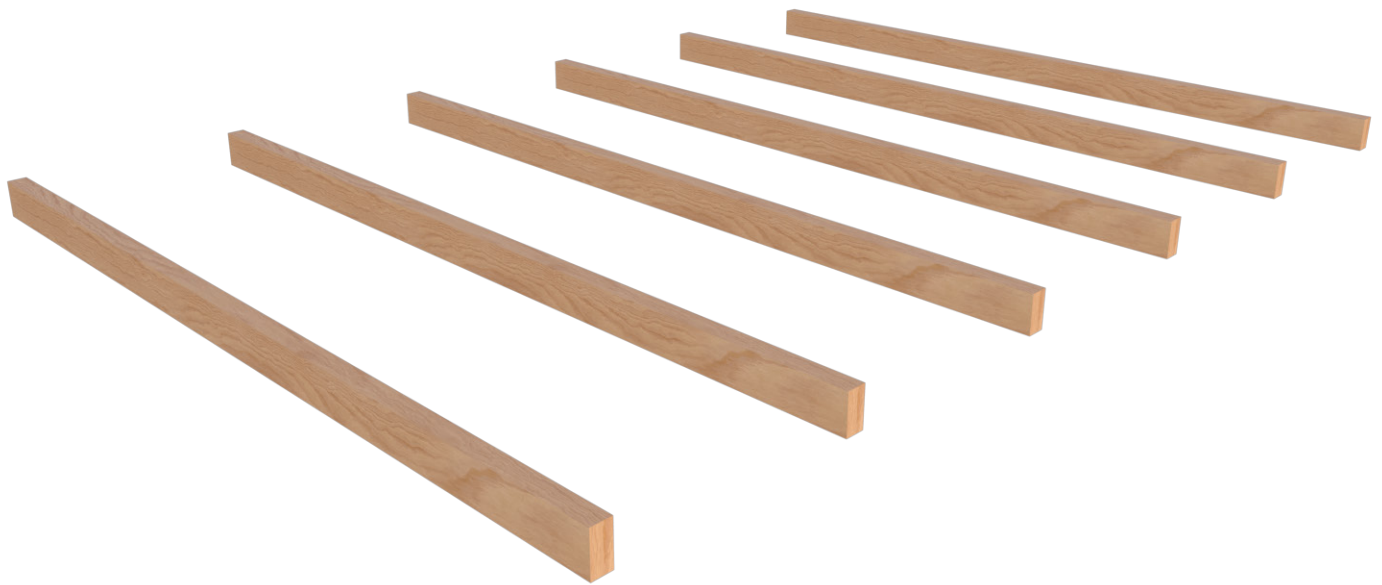
FIREFLY® Intumescent Acrylic

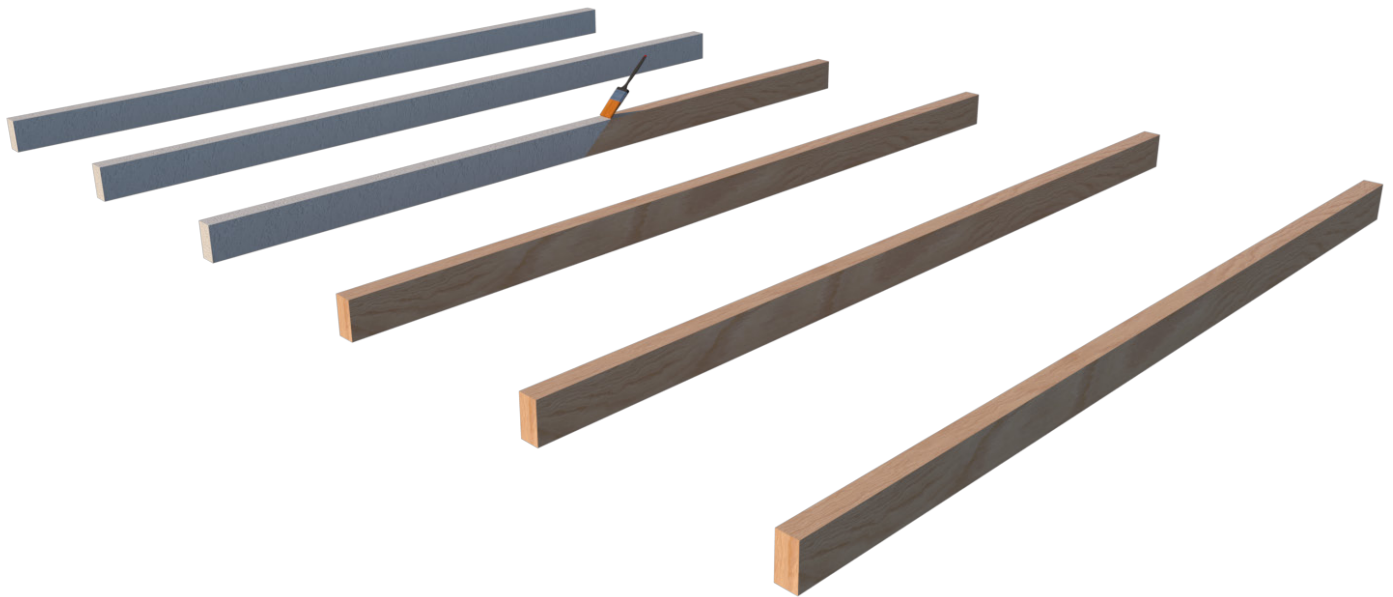


SUPPORTING TIMBERS

The FIREFLY® Ablative Batt Floor system is suitable for joists 4" x 2" (90mm x 38mm minimum thickness) With a 600mm (maximum) space between them.

It is recommended to cut the Ablative Batt an additional 2mm larger than the void, to ensure a tight friction.

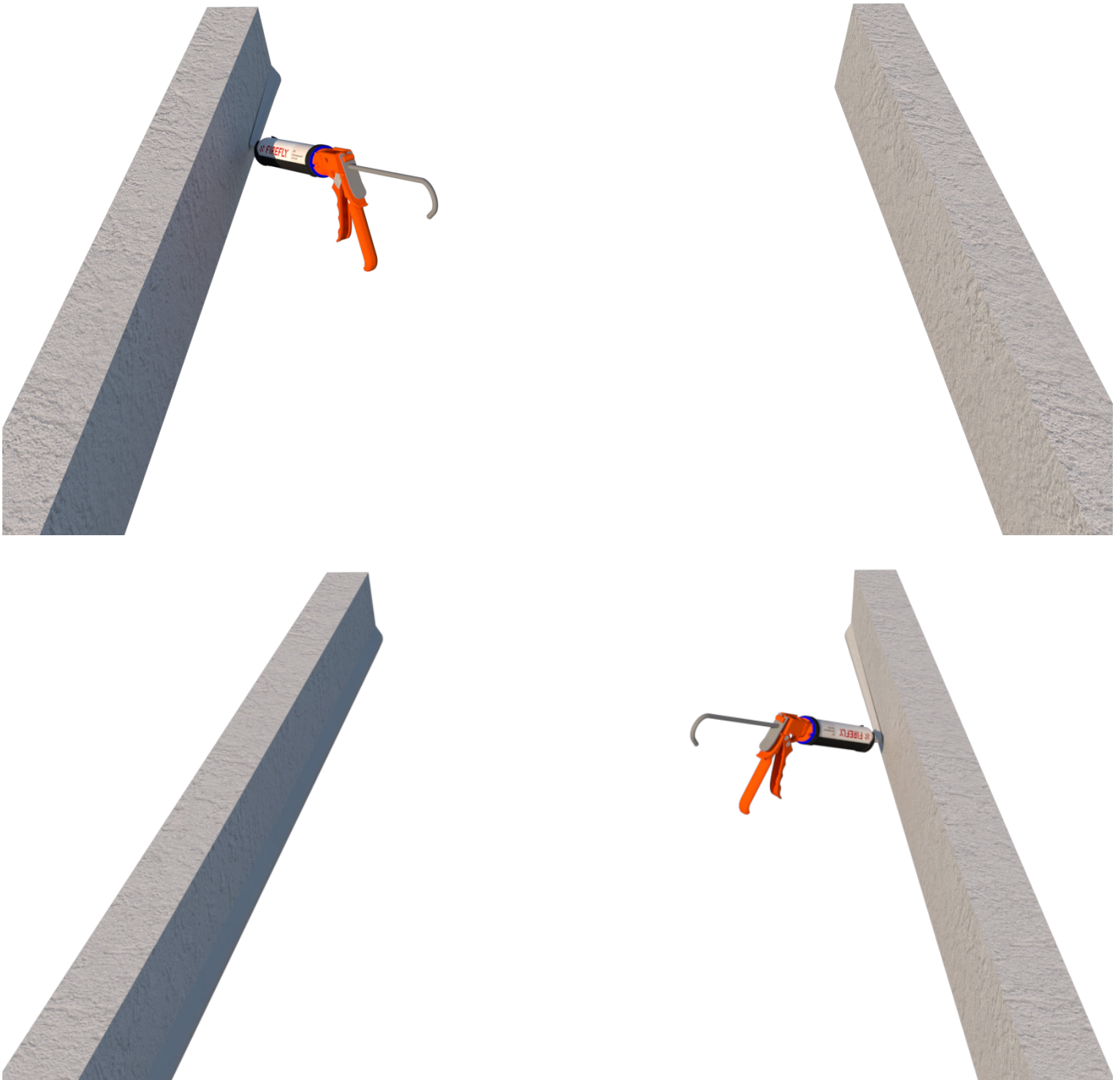




PAINTING SUPPORTING TIMBER

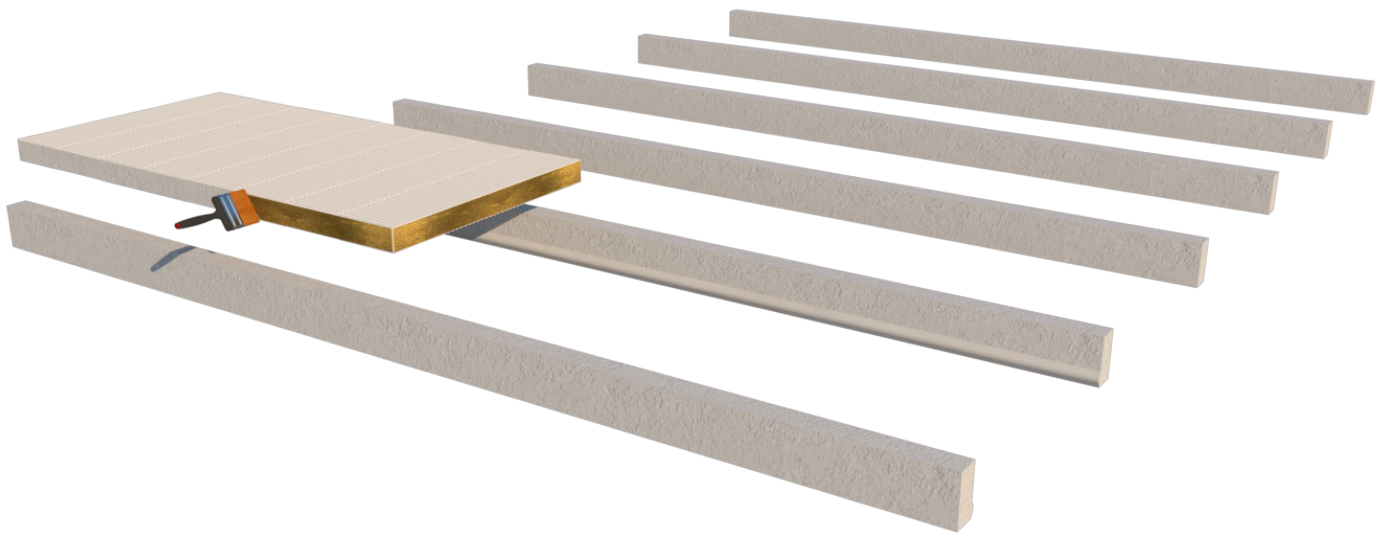
All timbers within or supporting the assembly are painted with FIREFLY® Ablative Coating. There is no required thickness of paint as long as all timbers are completely painted (Not patchy).

If access is restricted, the timbers must be painted on its 3 exposed faces.



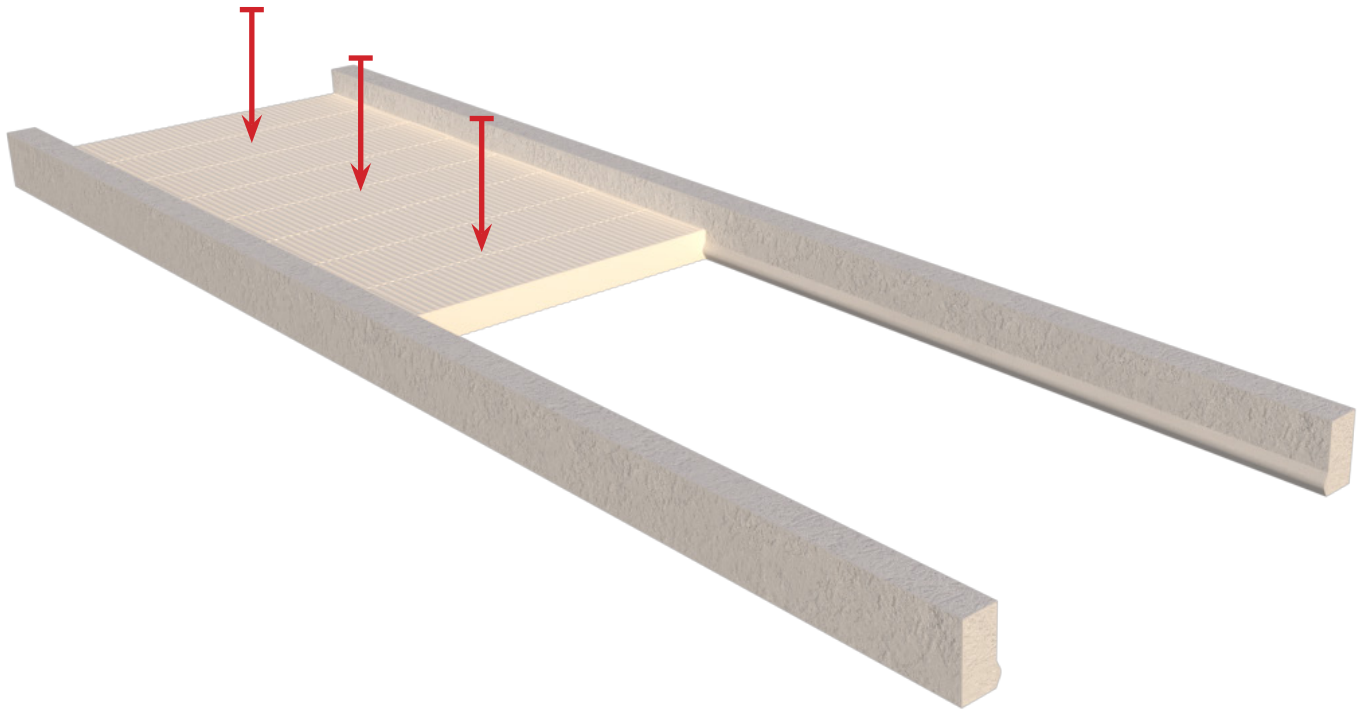
LOWER SUPPORTING BEAD

A 6mm bead of FIREFLY® Intumescent Acrylic is applied near the base of the timbers.
If a floor is present underneath the timbers, the bead can be applied to the corner in between the timbers and the floor.
If no floor is present, its recommended to position the bead a few millimetres (mm) above the base.



BUTTERING THE ABLATIVE BATTS

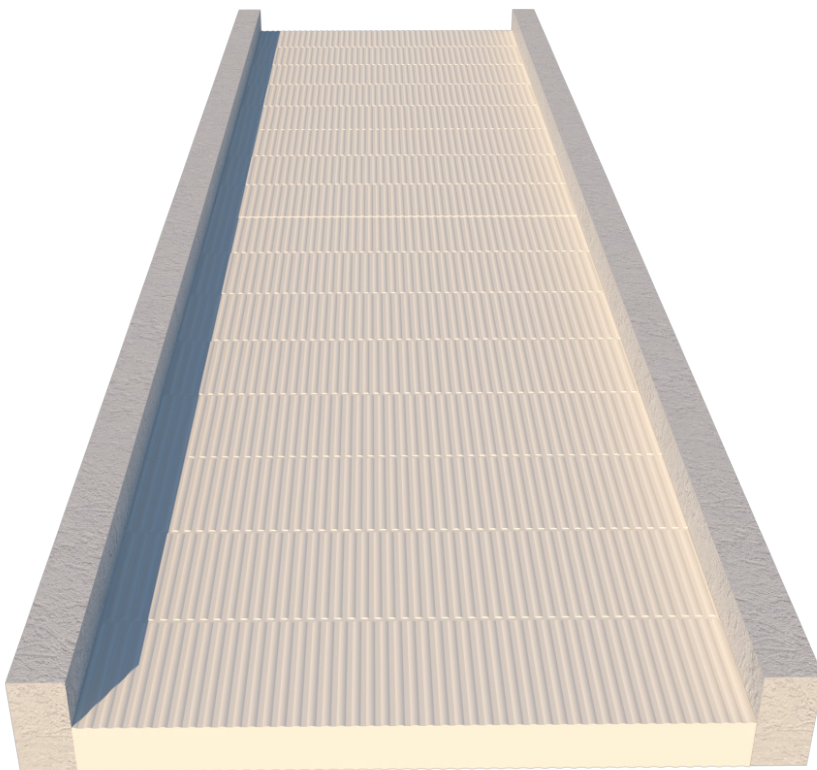
The exposed edges of the Batt are buttered with FIREFLY® Ablative Coating so that no exposed Batt fibre remains.

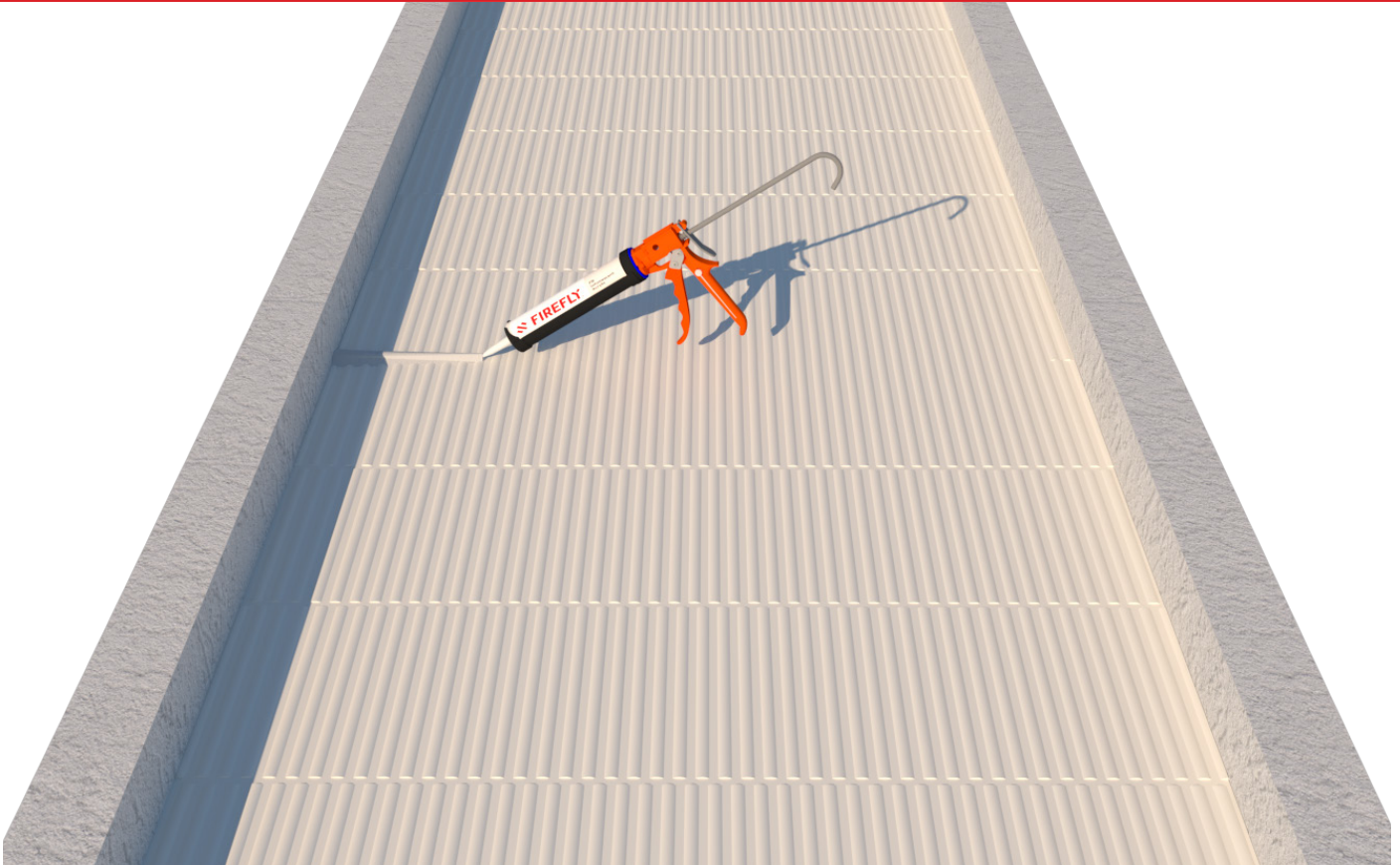


FRICTION FITTING ABLATIVE BATTS

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.

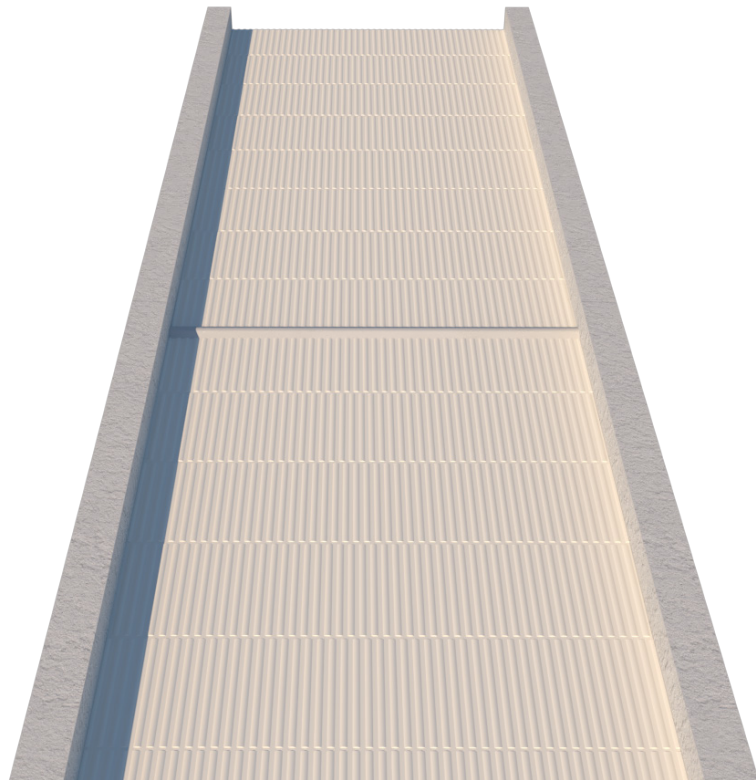
This detail is repeated until the section is completely filled.





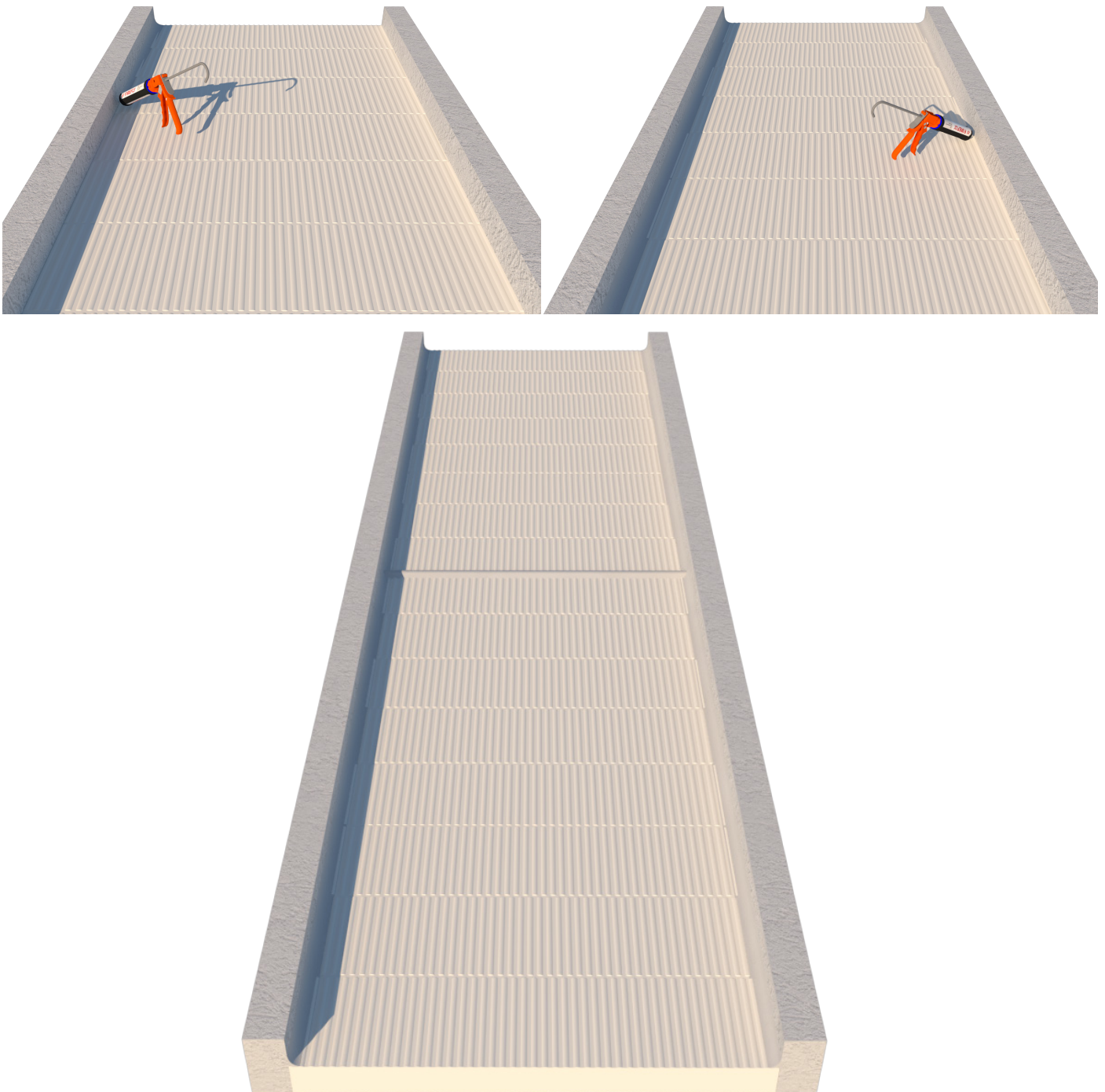
SEALING BATT JOINTS

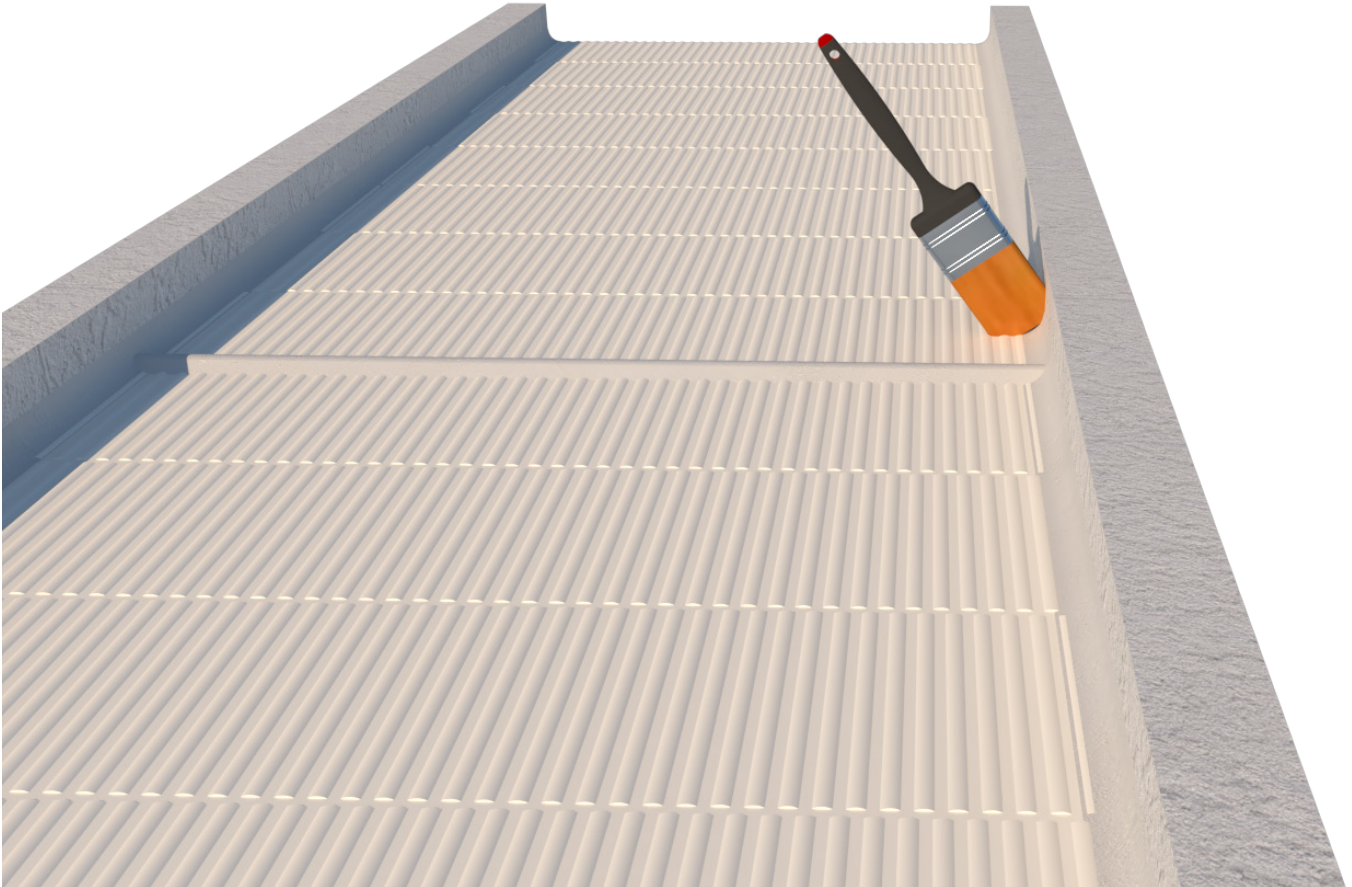
A 6mm bead of FIREFLY® Intumescent Acrylic is applied and flattened over the joint between the adjacent Ablative Batts.



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.





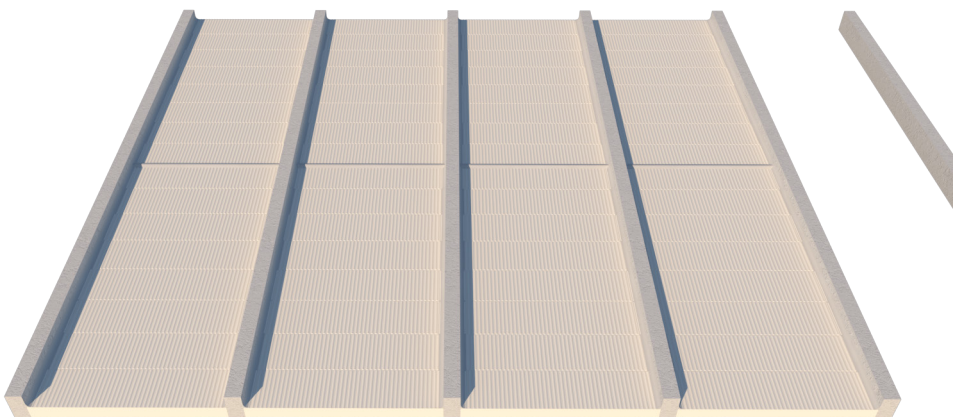
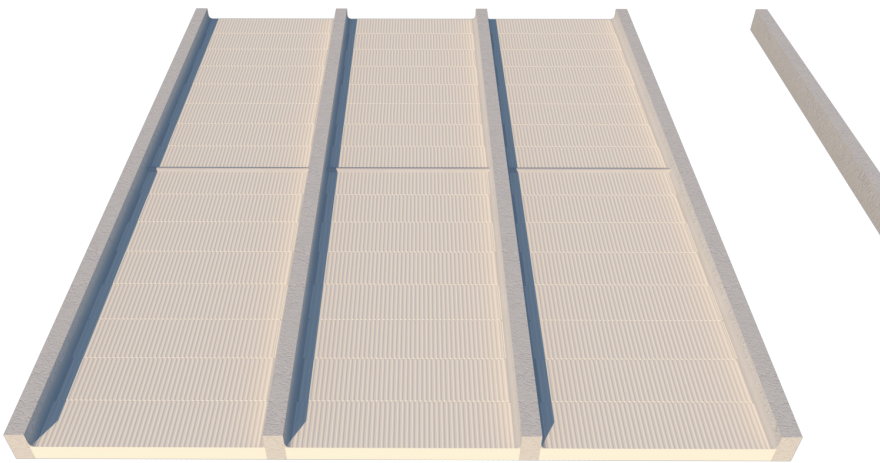
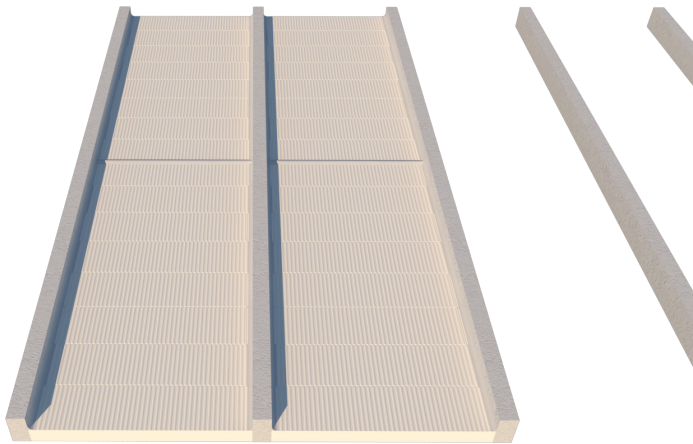
AESTHETIC FINISHING

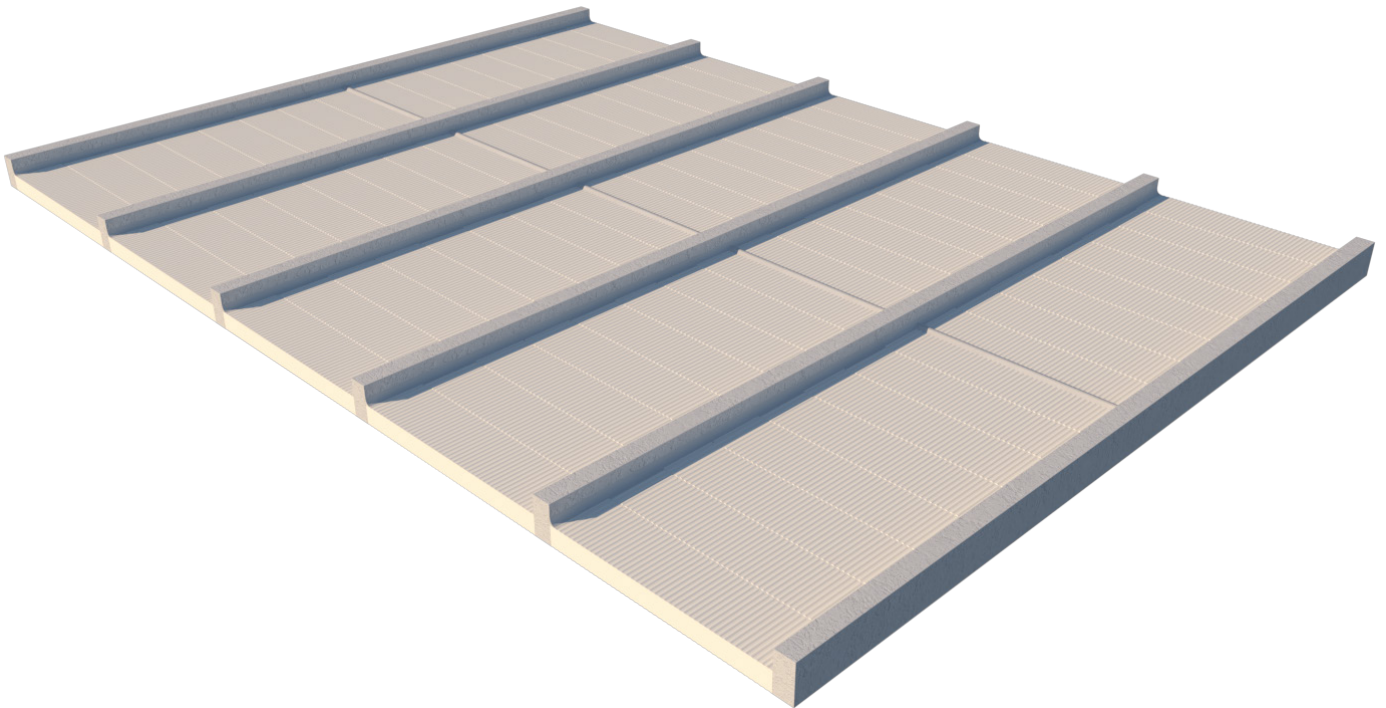
If aesthetics are a concern, the Intumescent Acrylic joints/seals can be dramatically neatened by painting over softly with a damp brush - excess water should be drained before brushing.

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.





COMPLETED BATT FLOOR

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

