

FIREFLY™ **INSTALLATION INSTRUCTIONS** **ON TO STEEL OR TIMBER FRAME**

Installation Instructions: FIREFLY™ Membrane WP & NB

Starting at the base of the structure, fix the top corner of FIREFLY™ Membrane to the right hand pillar or column ensuring that you have left sufficient lap to the floor slab or base.

Unroll the membrane horizontally (silver reflective surface inward), whilst keeping taut, and secure the opposite top corner using suitable fixings.

Fixing

Low profile pan head stainless steel self-drillers (with stainless steel washers) 15mm–20mm or similar dependent on the substrate.

Fixing to timber. When fixing to timber studs or sheathing board 10mm stainless steel staples for hammer tacker may be used.

Pull the first corner downwards tautly, and secure at the base, ensuring there are no creases.

Repeat this fixing operation to the opposite bottom corner ensuring that the membrane remains taut.

Secure the perimeter of the membrane fixing into every stud or at 600mm centres.

Cladding brackets or battens will provide additional security of the membrane in high winds prior to the façade being installed.

**Please note that FIREFLY™ Membrane should not be adhered to the substrate by means of any tape or adhesive, and must always be mechanically fixed.*

Overlaps

Install the next piece of membrane horizontally, ensuring a 150mm horizontal overlap on to the proceeding one is maintained, and secure it in to place as previously described. Continue in this manner installing horizontally, ensuring that the last piece is cut to size in to the eaves as required.

Horizontal joint overlap 150mm

Vertical joint overlap 150mm

External corner should extend by an overlap of 300mm

Joints

All horizontal or vertical joints must be sealed using a fire-rated foil tape such as the Bostik Idenden T303.

Window & Door Reveals

Where the membrane is to be installed at window and door reveals, it should be cut, folded into the reveals, and then mechanically fixed as appropriate. Window apertures should be sliced diagonally in an “X” to the corners of the reveal and the flaps folded inward to a depth of 150mm, trimming off any excess. Repeat this at each face of the reveal.

For doors cutting a capital “I” shape 200mm down from the top and up from the bottom of the aperture. These processes will leave an unprotected area at the corners of the reveals, which should be covered with triangles large enough to cover the unprotected area, cut from the excess membrane. These pieces should overlap by 10mm then be mechanically fixed and joints sealed with fire-rated foil tape.

Holes and Tears in FIREFLY™ Membrane.

For holes 25mm or less in size, simply use a piece of fire-rated foil tape greater than the size of the hole to effect the repair. For larger tears, cut a patch of the FIREFLY™ Membrane that is larger than the tear and should be the entire width of the membrane.

The patch must be sized to extend beyond the next two parallel studs. Loosen the fixings in the piece of membrane above, and slide the membrane under the lap. Secure the patch into place with 4 mechanical fixings to the studs or substrate. Use fire-rated foil tape to seal all edges of the patch to the existing membrane.

Exposure

FIREFLY™ Membrane can be exposed for a period of up to six months during the construction phase provided that the material is adequately fixed and exposure to local wind conditions are assessed.

Tools

Utility knife (“Stanley” knife) or scissors.

Screwdriver gun designed for the purpose. **DO NOT USE IMPACT DRIVERS.**

Hammer stapler for timber framework (Rapid R11 or R311 or similar).

Fixings

Low profile stainless steel self-drilling fixing or similar. With stainless steel washers.

10mm stainless steel staples for hammer tacker when fixing to timber studs or sheathing board.

Foil Tape

Fire-rated foil tape. Bostik Idenden T303 (or similar).

