FLAMEOUT® BLOCK FR AVCLs

INSTALLATION INSTRUCTIONS





TECHNICAL HELPLINE 01347 825 200

APPLICATION

For all roof and wall internal installations to prevent moisture within the building's warm air from reaching the insulation layer and forming interstitial condensation. FlameOut Block AVCL membranes contribute to both BS 9250 for the airtightness in 'a well-sealed ceiling' and BS 5250 aiding the control of condensation within a roof space.

Due to their inert chemical composition, FlameOut vapour control membranes are compatible with insulation and roofing materials.

FlameOut vapour control layers are also suitable as a damp proof membrane. Because they are chemically inert, they are unaffected by mild acids and alkalis found in soils, do not rot or support mildew or other organic growth.

STORAGE & HANDLING

Always store membrane rolls hoizontally in cool, dry conditions, away from direct sunlight.

Handle the material with care and ensure that the membrane is not punctured or damaged..

DESIGN DETAILS

1. CONTINUITY

FlameOut Block VCL Membranes should be continuous over the whole plan area of the structure. All laps should be sealed with the appropriate Powerbond sealing tape and the number of joints should be kept to a minimum by using the full width of the membrane

a. Cold Roofs Cold roofs with the VCL membrane draped between purlins with the insulation above are harder to seal at the laps. Consideration should be given to supporting the laps. In high-risk areas a rigid lining sheet is recommended throughout to support the VCL membrane.

b. Warm Roofs Sealing the Vapour Control Membrane in warm roofs is much easier as it is supported by the structural deck directly beneath. Sealing tape allows for any slight expansion or contraction movement in the decking.

c. High Risk Roofs The 'NFRC Profiled Sheet Metal Roofing & Cladding - A Guide to Good Practice' suggests that the water vapour resistance of a VCL membrane within high-risk roofs should be at least 500 MNs/g.

3. SERVICE PENETRATIONS

Service penetrations should be kept to a minimum. Airtight seals are required around each point of entry. Particular attention is required to sealing all penetrations such as soil pipes, vent pipes and roof lights as well as the roof perimeter.

4. TIMBER FRAME DESIGNS

Timber frame fixings should not puncture the barrier.

INSTALLATION

Installation should be performed in conjunction with the recommendations specified in Design Details. The VCL membrane should be laid loose, flat and without wrinkles; ensure that the membrane is not creased or folded.

1. WORKING WITH THE MEMBRANE

- a) Weather Conditions
 - (i) Cold makes the VCL becomes less supple and installations should be avoided whenever site temperatures fall below 5° C.
 - (ii) Installation in windy conditions is not recommended since the VCL becomes difficult to handle and is liable to flap in the wind.
- b) The material can be cut using a sharp knife. Always overlap the cut edge.
- c) All overlaps should ideally be 150mm, horizontally or vertically

JOINING OF ROLLS AND PANELS

- a) The number of joints should be kept to a minimum by using the full width
- b) Joins should only be made where the membrane is supported (i.e. not where the join bridges unsupported areas).
- c) The surfaces should be clean and dry, free of any dirt, condensation,
- d) Rolls or panels may be joined with a recommended overlap of 150mm:
 - (i) A continuous single row of Powerbond FlameOut Tape in the overlap is recommended for overlap sealing (Fig. 1)
 - (ii) All joins should be firmly pressed together using a hand-held pressure roller to ensure that the tape has adhered properly to the membrane.
 - (iii) Only apply tapes at an ambient temperature of 5° C.

Powerbond FlameOut Tape Overlap Join Detail Single row (recommended) of tape

3. SEALING

To maintain the integrity of the system, sealing should be performed as

Service penetrations and corners - Where services and pipework need to penetrate the membrane, use Powerbond FlameOut Tape to create airtight seals around each point of entry. To avoid cutting the membrane, it is important that the membrane is folded into the corner and then reinforced by an additional protective layer of membrane.

4. ELONGATION

- a) Whilst elongation of any vapour control layer should be avoided, FlameOut VCLs incorporate a reinforced grid to reduce the risk of elongation. VCLs should be laid loosely on the site in order to allow for any movement. They should not be pulled taught.
- b) When covering the membrane, care should be taken to ensure that the membrane is not displaced, damaged or stretched.

Prior to covering, the VCL barrier should be thoroughly inspected to verify the integrity of the joining and sealing and ensure that no damage has occurred to the membrane during installation. Any damage should be repaired to ensure an airtight seal. A competent installation contractor should carry out inspection and repair of the VCL membrane.

REPAIRS

Damaged areas must be repaired using patches of FlameOut VCL. The area must be clean, dry and free of dust and grease. The patch must not extend beyond 150mm of the damaged area. Fix the patch by using a continuous single row of Powerbond FlameOut Tape.

7. FURTHER INFORMATION

These installation instructions are based upon currently available good practice and information and only offered as a general guide.

Final determination of the suitability of any information or material for the use contemplated and the manner of use is the sole responsibility of the user and the user must assume all risk and liability in connection therewith.

Check the suitability and safety of the products for the use envisaged with all current and applicable national standards.

IMPORTANT

Protect FlameOut Block VCLs from UV exposure. Cover and finish the construction of the VCL installation within a maximum of 3 months (for Western Europe).

As per EN 13859-2, Clause 5.2.2, in the case of the VCL being used on a supporting structure, further flame retardant testing of the structure may be needed to determine the flame retardancy of the construction due to a possible difference in flame retardancy of the supporting construction materials (e.g. wood). FlameOut Block is Class B-s1,d0 when free hanging or directly installed on a supporting substructure with a flame retardant classification of A1 or A2.

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