

## Sisalation® Foam Cell

### Before you commence – Electrical Safety Precautions:

Ensure all electrical cabling, fittings and wiring is in a safe condition and there is no potential for contact with live wiring or downlights.

### General:

Sisalation® Foam Cell is not designed to withstand prolonged direct exposure to the elements. Accordingly, the outer construction envelope should be installed without delay. If installed within 500 metres of the sea, or in a non-residential building where foil surfaces may be exposed to a corrosive atmosphere, foil surfaces shall face an enclosed, non-ventilated air space. Sisalation® Foam Cell products must be kept dry and out of contact with alkaline products, cement and mortar. To ensure optimum thermal insulation performance, as well as satisfactory durability, a minimum 25mm air-space adjacent to each side of the product is recommended.

**NOTE: Sisalation® Foam Cell is not recommended for use in swimming pool or agricultural shed applications.**

### Residential metal and tiled roofs:

In residential sheet metal roofs, Sisalation® Foam Cell shall be installed as a continuous membrane, anti-glare side facing out and laid loosely over rafters on 450mm centres with a minimum drape of 40mm. For larger rafter spacings (in metal roofs), the drape shall be increased proportionally.

Joins must be overlapped to facilitate drainage by using the 150mm flap. When used under tiles, Sisalation® Foam Cell must be installed under the battens, with a maximum 40mm sag, in order to comply with AS/NZS 4200.2:1994.

### Commercial metal deck roofs:

Sisalation® Foam Cell shall be installed as a continuous membrane, anti-glare side facing out and laid with a maximum sag allowable by the safety mesh between purlins. Joins must be overlapped to facilitate drainage by using the 150mm flap. The roof sheet may be fixed by screwing through Sisalation® Foam Cell into the purlin.

### Framed walls:

In framed walls and gables, Sisalation® Foam Cell shall be installed horizontally as a continuous membrane by fixing to all framing members with the anti-glare side facing out. Joins must be overlapped to facilitate drainage by using the 150mm flap.

Sisalation® Foam Cell shall extend from the top plate to the bottom plate on concrete slabs or bearers in timber constructions. Fixings are to be no more than 450mm apart and should be installed using galvanised clouts or staples when fastening to timber construction and TEK screws when fastening to steel constructions. It is recommended that flat punched multi-point fasteners or cap screws are used for fixing in high wind areas. All overlaps must either utilise the 150mm flap as an overlap or be taped using 72mm Fletcher Insulation Tape to prevent water ingress. If the flap cannot be used, it is recommended Sisalation® Foam Cell is overlapped 50mm prior to taping. Any damage made to Sisalation® Foam Cell during installation, including holes and tears, must be repaired. Where Sisalation® Foam Cell is intended to act as a vapour barrier, tape and seal all overlapped joins, penetrations and discontinuities with 72mm Fletcher Insulation Tape to prevent air movement. When Sisalation® Foam Cell is installed as sarking, all penetrations shall be sealed or turned up to facilitate drainage around penetrations. Ensure window and door openings are cut neatly and carefully and are properly fitted at flashing points.

Sisalation® Foam Cell shall be cut back from any hot flue to avoid being a fire hazard. This can be achieved by a clear space of at least 50mm, or as recommended by the flue manufacturer and approved by the local authority.

## Double brick and masonry cavity walls:

After the inner leaf of the double brick or masonry cavity wall is laid, place Fletcher Insulation™ Foam Spacers onto the brick ties via the vertical slit provided, with the white adhesive side facing outwards. Install one cavity spacer per square metre to ensure the required air-space is achieved. Remove adhesive tape backing. Install Sisalation® Foam Cell horizontally, cut slits through the pliable building membrane at all brick tie positions, and place Sisalation® Foam Cell into position over the brick ties. Push the membrane and the cavity spacer into position against the inner back leaf. The overlap shall face downwards to facilitate a 150mm overlap (ensure there are no obstructions to weepholes).

**Note:** if your project requirements vary to the application/ installation guidelines provided, contact Fletcher Insulation for advice prior to commencing the installation.