

Benefits

- Strong, light and flexible with excellent tear resistance
- Heat stabilized for durability and effective in a temperature range from -20C° to 80C°.
- Non-toxic, inert and vermin proof
- Waterproof - no membrane necessary under roof tiles or sheeting
- Aesthetically pleasing finish with good light reflectance
- Acknowledged by the trade as the easiest thermal insulation on the market to install

Properly installed under normal environmental conditions, Alucushion® / Bubblefoil® FR will last the lifespan of the roof under which it has been installed.

Alucushion® FR is tested and evaluated according to SABS 1381 (Materials for Thermal Insulation of Buildings) Part 4: Reflective Foil laminates, rolls, sheets and sections

THERMAL VALUES

Alucushion®/Bubblefoil® **FR** White (Code 2906) - 0.99 m² k/w

Alucushion®/Bubblefoil® **FR** Double-sided (Code 1983) - 1.35 m² k/w

Above thermal resistance (R-values) are as tested by the SABS and include air gaps of 25mm. Test reports available upon request

FIRE PERFORMANCE

Alucushion®/Bubblefoil® **FR** (fire retardant grade) has been tested by Firelab and found not to cause fire to spread when used as an over-purlin type roof insulation material. The product contains a highly advanced fire retardant, and is tested to the SANS 428 standard (Fire testing of building insulation materials, components and elements used for roofs) as part of SANS 10400: Part T of the National Building Regulations.

Fire Ratings

Alucushion®/Bubblefoil® **FR** White Code 2906 – B/B1/2/H only (SP)

Alucushion®/Bubblefoil® **FR** Double-sided Code 1983 – B/B1/2/H only (SP)

Fire test reports available upon request

PRODUCT SPECIFICATIONS

Material thickness:	4mm
Roll width:	1 250mm
Roll length:	40m
Roll cover:	50m ²
Effective coverage:	46m ²

(All thermal & fire test reports available on request.)

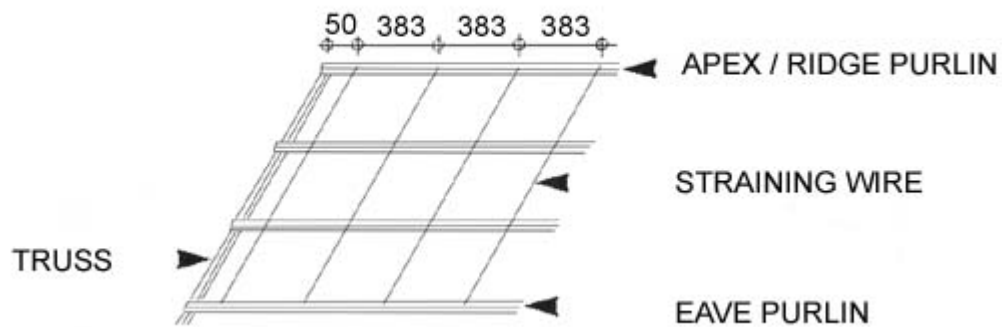
Member of TIASA - The Thermal Insulation Association of Southern Africa



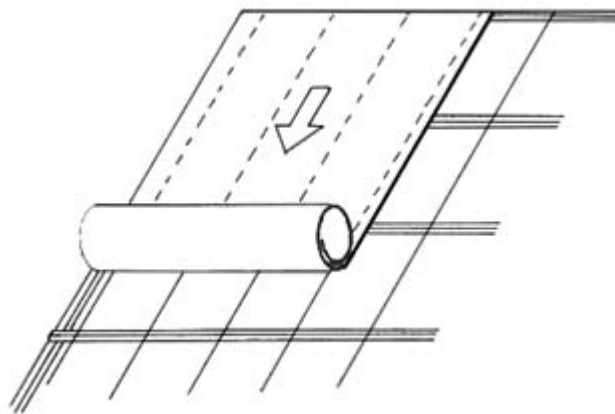
INDUSTRIAL APPLICATION

- Fix PVC coated straining wire from the top apex purlin, over intermediate purlins to the bottom eave

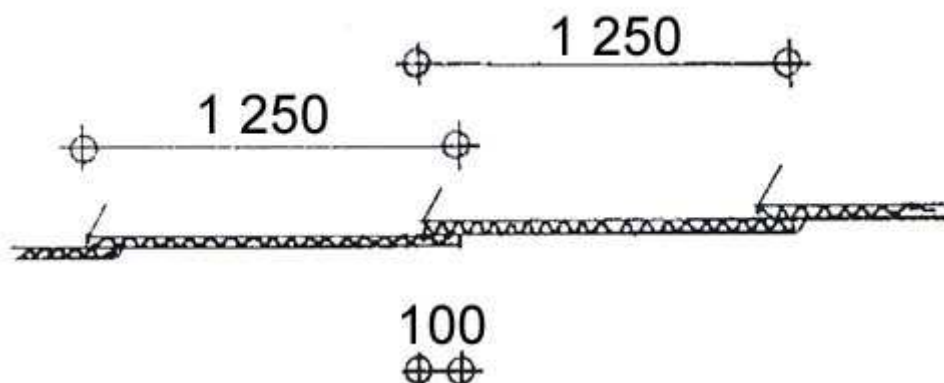
purlin at 383 mm centers – first straining wire to be fixed 50 mm away from gable end. Evenly tension all wire ensuring that cut ends face downwards.



- Lay Alucushion® / Bubblefoil® **FR** over the straining wires ensuring that it is squared off. Fix to apex purlin using double-sided tape. Evenly tension material and fix to eave purlin again using double-side tape.



- All subsequent layers of Alucushion® **FR** to be fixed as above with a 100 mm overlap over the previous sheet.
- Straining wires must be positioned at the centre of the overlaps i.e. not more than 50 mm from the sheet edges.



- Lay roof sheeting as soon as possible after the fixing of Alucushion® FR

DOMESTIC APPLICATION

Because of Alucushion® FR's tensile strength and ease of handling, there are various application options available depending particular roofing material and/or design, construction method and project requirements (i.e. thermal control waterproofing, ceiling substitution etc.)

- The most common method is that illustrated in the sketch i.e. stapled with industrial staples to top of rafter before fixing of brandering. Material is laid horizontally (between gable ends) commencing at the eaves and ensuring that subsequent sheets overlap the previous sheet. With this method the Alucushion acts as both insulation and a waterproofing membrane.
- Where the roofing is in sheet form the industrial method of installation is normally used with or without straining wires.
- An alternative method is to staple Alucushion® FR to the bottom of the roof trusses prior to the fixing of the ceiling brandering.
- If required as both insulator and ceiling (e.g. affordable housing) Alucushion® FR can be tensioned between the gable ends and stapled to the bottom of the trusses.

