Starlite®

INSULATION

Starlite® consists of flexible rolls of insulation manufactured from high quality non-combustible glassfibre/glasswool using an inert thermosetting binder to form a product which is light-weight, strong, resilient, safe and highly thermally efficient.

Starlite® is supplied faced with a variety of scrim re-inforced facings being foil, white or black coated for industrial, commercial and steel roof applications. Starlite® is used for thermal and acoustic applications in roofs and side cladding, of all types of buildings and has a working temperature of up to 230 °C.

Product **Sizing**

Standard width: 1200mm

Standard Thicknesses available:
50mm, 75mm, 100mm, 135mm

Lengths available:
50mm: 8m - 30m
75mm: 6m - 25m
100mm: 5m - 10m
135mm: 5m - 15m

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Product **Features**

Completely non-combustible. Starlite® is one of the very few insulation materials in South Africa to achieve the highest reaction to fire classification.

Eco friendly "green" product. Starlite® is free of CFC's, HCFC's and is not produced with any blowing agents ensuring it has Zero Ozone Depleting Potential (ODP), and Zero Global Warming potential (GWP).

Excellent acoustic properties. Starlite® has a Noise Reduction Co-efficient (NRC-Value) of 0.70 at 50mm thickness, ensuring very good sound absorption from rain and hail noise on the roof.

Starlite® is chemically inert and will not cause or accelerate corrosion of steel, stainless steel, aluminium or copper due to its specific inorganic and mineral composition.

Starlite® is non-hygroscopic and will not breed or promote fungi, mould or bacteria nor sustain vermin.

Starlite® helps prevent condensation and is suitable for high humidity applications.

Starlite® will provide long term energy savings, is maintenance free, and will not readily age providing exceptional product life.

Starlite® offers one of the best comfort–to-cost ratios on the market.

Installation **Application**

For over-purlin roof applications the faced Starlite® is manufactured to the required length within the standard limitations and laid over-purlin directly below the roof sheet.

Galvanised or PVC coated straining wire is positioned at 300mm centres and the flaps along the longitudinal edges pulled up and stapled then folded back and stapled again.

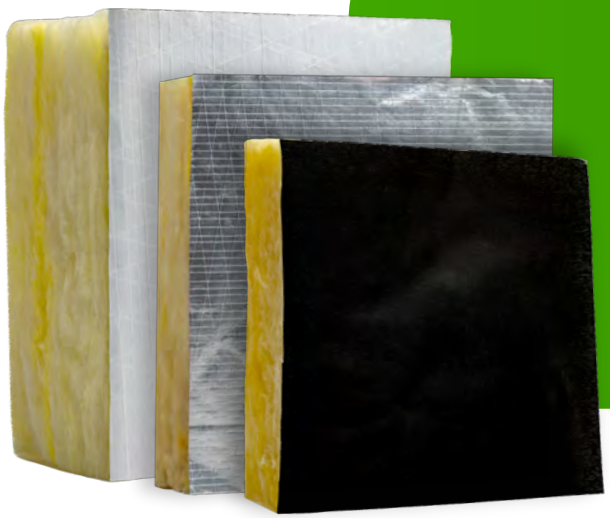
Full installation guideline available upon request.

BOQ **Specification**

50, 75, 100 or 135mm thick Starlite® Foil, White or Black faced.

Faced fibre roof insulation of 12kg/m3 nominal density in suitable lengths and 1200mm widths laid over-purlin directly below the roof sheet.

Including 1.6 gauge galvanized, white or black pvc coated steel straining wire at 300mm centres with all longitudinal flap joints securely stapled including all cutting and waste strictly according to the manufacturers specifications.



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Thermal **Values**

Density Kg/m3	Thickness mm	Thermal Resistance m²K/W (R-value)
12kg/m3	50mm	1.28m²K/w
12kg/m3	75mm	1.92m²K/w
12kg/m3	100mm	2.56m²K/w
12kg/m3	135mm	3.46m²K/w

Fire **Performance**

Starlite® was the first faced fibre roof insulation material in South Africa to attain an A1 fire rating according to SANS 428. Following the revision of SANS 10400-T:2024 Ed 5 Fire protection, which includes the Reaction to Fire Classification of Thermal Insulation Products, Starlite® achieved the following classifications:

SANS 53501-1
Starlite® Foil Faced – A2-s1, d0.
Starlite® White Faced – A2-s1, d0.
Starlite® Black Faced – A2-s1, d0.

Starlite® is therefore approved for use in all single and multi-level structures as per SANS 10400-A – Regulation A20 Classification & Designation of Occupancies relevant to SANS 10400-T Fire Protection. These include but are not limited to the following Building Occupancy Classes: A1; B1; D1; D4; E1; E2; E3; E4; H1; H2 and J1.

Handling & **Storage**

Store under cover and in dry conditions. Handle with reasonable care and do not apply excessive pressure by standing or sitting on the product as permanent damage may occur. Store off the ground and away from impervious surfaces or moisture as staining of the facing may occur.

The product is supplied in a compressed state and a period of 24-48 hours should be allowed for normal thickness to be achieved. Product should not be installed in applications where the facing material is exposed to direct or indirect ultra violet radiation.

D&D
ROOF INSULATIONS

TIPSASA
THERMAL INSULATION PRODUCTS & SYSTEMS ASSOCIATION SA

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All information provided in this data sheet is correct at the time of publication and D&D Roof Insulations reserves the right to amend product specifications without notice.