

*starlite*<sup>®</sup>  
Insulation

ECO FRIENDLY ENERGY EFFICIENT ROOF &  
CEILING INSULATION

## PRODUCT DESCRIPTION

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

Starlite® is supplied as a plain blanket for ceiling applications, or faced with a variety of scrim re-inforced facings being aluminium foil or white coated aluminium foil for industrial and steel roof applications. Starlite® is used for thermal and acoustic applications in roofs, walls and ceilings of all types of buildings and has a working temperature of up to 230°C.

Standard width: 1200mm

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

Length available: Various

## PRODUCT FEATURES

- Completely non-combustible, Starlite® is one of the very few insulation materials in South Africa to achieve an A1 fire rating according to the new SANS 428 fire regulations.
- 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).
- Highly thermally efficient, Starlite® has a Thermal Conductivity (K-Value) of 0.039 W/m.K.
- Excellent acoustic properties, Starlite® has a Noise Reduction Co-efficient (NRC-Value) of 0.70 at 50mm thickness.
- 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.

## THERMAL VALUES

Density Kg/m <sup>3</sup>	Thickness mm	Thermal Resistance m <sup>2</sup> K/W (R-value)
12kg/m <sup>3</sup>	50mm	1.28m <sup>2</sup> K/w
12kg/m <sup>3</sup>	75mm	1.92m <sup>2</sup> K/w
12kg/m <sup>3</sup>	100mm	2.56m <sup>2</sup> K/w
12kg/m <sup>3</sup>	135mm	3.46m <sup>2</sup> K/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 (Fire Performance classification of thermal insulated building envelope systems) as part of SANS 10400 of the National Building Regulations.

- Combustibility – Class A (Non-combustible)
- Surface Fire Properties – Class 1 (No Flame Spread)
- Use of Materials – Class 1 (No limitations, suitable for all occupancy classes of buildings)
- Material Application – H&V (Horizontal and Vertical)



## INSTALLATION APPLICATION

For domestic or retrofit applications the Starlite® blanket is simply laid directly over the ceilings between the roof trusses. For industrial over-purlin 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.*

## SPECIFICATIONS FOR BOQ

### Ceilings

50, 75, 100 or 135mm thick Starlite® Fibre Ceiling Insulation of 12kg/m<sup>3</sup> density in 1200mm widths laid directly over the ceiling between trusses ensuring a snug fit including all necessary cutting strictly according to the manufacturers specifications. D&D Roof Insulations. [www.roofinsulation.co.za](http://www.roofinsulation.co.za).

### Industrial

50, 75, 100 or 135mm thick Starlite® Aluminium Foil or White Coated Aluminium faced fibre roof insulation of 12kg/m<sup>3</sup> nominal density in suitable lengths and 1200mm widths laid over-purlin directly below the roof sheet on and including 1.6 gauge galvanized or white 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. D&D Roof Insulations. [www.roofinsulation.co.za](http://www.roofinsulation.co.za).



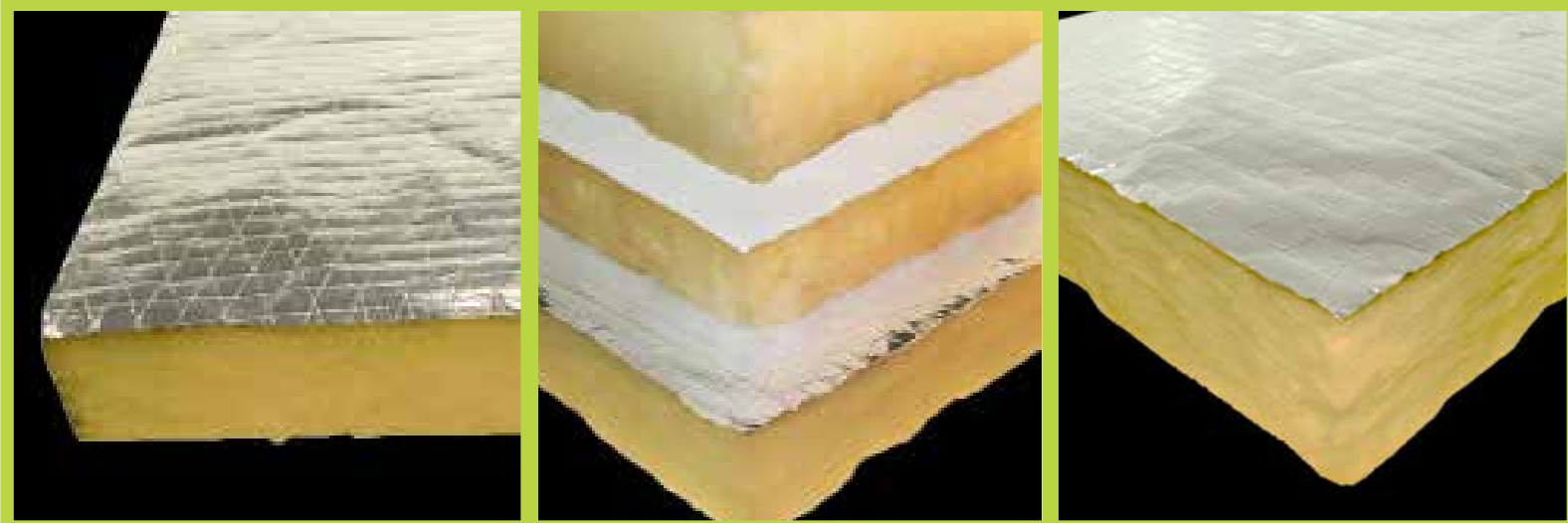
#### **Handling and storage:**

*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 or 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.*

#### **Disclaimer:**

*D&D Roof Insulations provides all information contained in this publication based on data available at the time and reserves the right to amend such information from time to time.*





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Thermal Insulation Products &  
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