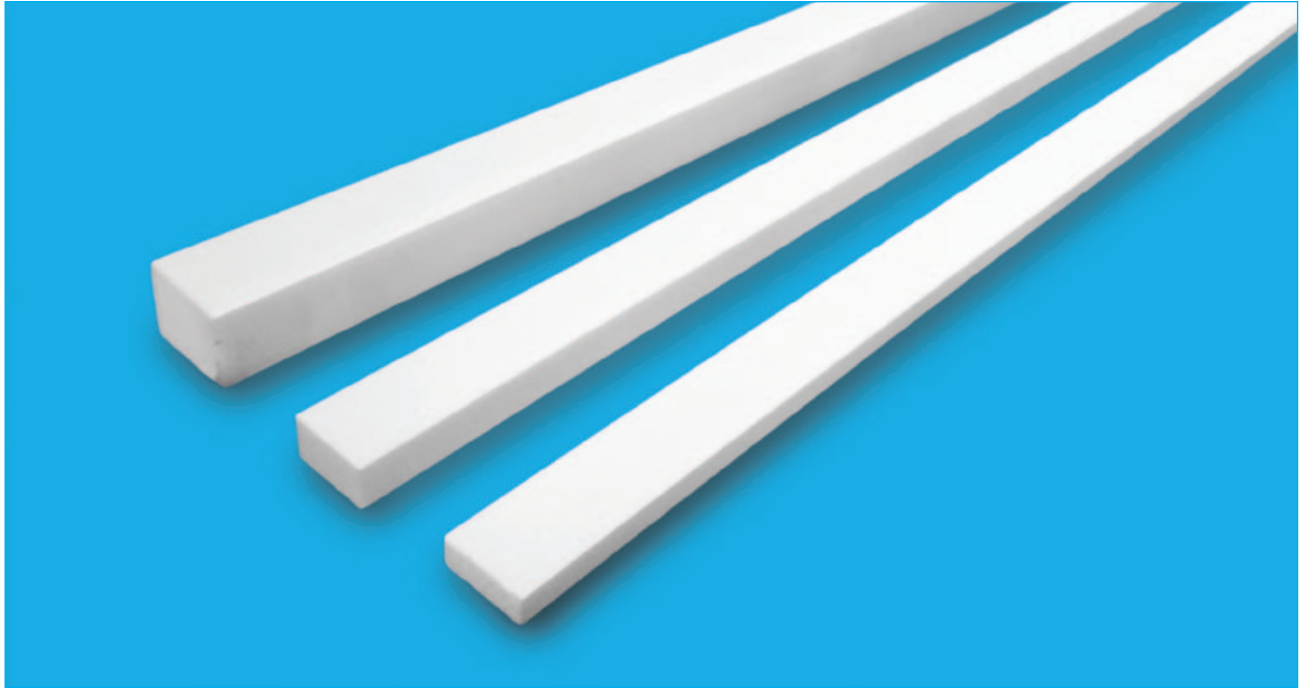


Insultrak™

The new roof insulation spacer for over-purlin roof applications



Insultrak™ was born out of extensive research and development initially due to the problem presented by thicker faced fibre roof insulation materials being specified in over-purlin roof applications.

Since the inception of the SANS 10400-XA standard for Energy Usage in Buildings, there has been a marked increase in the use of thicker fibre blanket materials to attain the required thermal values for the building's design. This, in turn, impacted on the effective fixing of the roof sheet for both secret fix and standard roof sheeting systems in conjunction with the thicker insulation material.

The second problem that needed to be overcome during the R&D process was to find a material that would provide the required fire performance when used in these applications. Following testing done to SANS 428 (fire performance classification of thermal insulated building envelope systems), a material was found that met these requirements.

The third requirement of importance was that the material used also needed to consist of an effective insulation material. This would negate thermal bridging that would occur with many other raw materials and would enhance the total thermal value of the installed system.

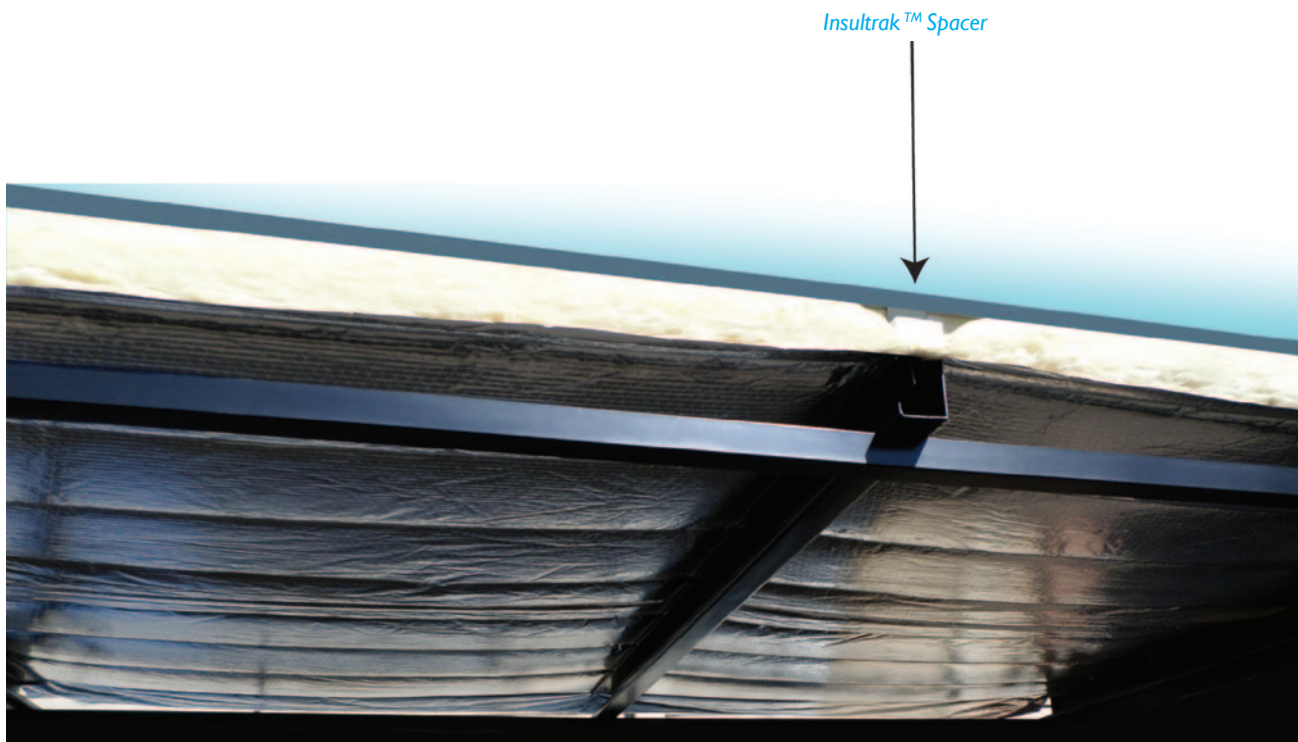
The final requirement, and by no means less important, was that the Insultrak™ spacer would improve the overall thermal value of the insulation material once installed by providing the maximum return loft of the fibre blanket. It was also found that the aesthetics of the faced fibre were not affected by the addition of the Insultrak™ spacer.

Insultrak™ is manufactured from a lightweight, high density closed cell rigid foam in standard dimensions as required for the relevant thickness of insulation, and has the following value-added benefits:

- Ultra lightweight – adds no mass to the structure
- Excellent thermal value – Thermal Conductivity (K-Value) 0.024 W/m°C
- 100% closed cell structure – impervious to moisture or water absorption
- High density – 32-36kg/m³
- High compressive strength – 160-310 kPa depending on thickness
- Fire tested and approved for use in the required application
- Can be combined with other approved roof insulation materials to improve thermals

The installation of Insultrak™ in conjunction with the fixing of the roof sheet is extremely simple. The Insultrak™ spacers are simply laid over the insulation on top of the purlin before fixing of the roof sheet, or clip system for secret fix roof sheeting. The roof is then fixed down in the standard method applied for the relevant roof sheet with the addition of longer fixing screws to accommodate the spacer. Insultrak™ is supplied in standard 3m lengths, which are 75mm wide and available in the following thicknesses: 25mm, 40mm and 75mm. Alternative thicknesses may be produced upon request.





INSULTRAK™



Insultrak™ was designed, developed and patented by D&D Roof Insulations. The company has been one of the leading innovators and suppliers of most commercially available roof insulation products in South Africa for the past 15 years. Following previous product successes such as the development of Starlite®, which was the first faced fibre roof insulation material in South Africa to achieve an A1 fire rating, the development of a solution such as Insultrak™ was a natural progression.

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