

SarnaTherm Polyisocyanurate (PIR)

The SarnaTherm PIR range of rigid thermal insulants are CFC and HCFC closed cell rigid polyisocyanurate insulants, manufactured by Kingspan Insulation Ltd, to BS EN 13165 "Thermal Insulation products for buildings - factory made rigid polyurethane foam (PUR)". Produced by a chemical reaction, during which a blowing agent is added causing the foam to rise between two facings, to which it autohesively bonds, producing a finished product when cooled.



SarnaTherm PIR is manufactured using one of two upper facings, to produce insulants for specific applications. The mineral glass tissue face SarnaTherm G-LPC/FM is LPCB and Factory Mutual approved and is suitable for use in adhered Sarnafil applications or can be mechanically fastened. The foil faced SarnaTherm S-LPC/FM is LPCB and Factory Mutual approved for use in mechanically fastened applications and can also be used in warm ballasted and SarnaVert green roofing systems. Both are available as tapered (cut to falls) schemes.

Specification

- Low thermal conductivity - 0.024 – 0.026 W/mK (Lambda 90/90).
- CFC and HCFC free.
- Zero ODP (Ozone Depletion Potential).
- LPCB and Factory Mutual Approved.
- Typical Density of 32 kg/m³.
- Compressive strength 150 kPa at 10% yield.
- Provides reliable long term thermal performance over the lifetime of the building.



Attachment to Substrate

SarnaTherm G-LPCB/FM and S-LPCB/FM can be attached to the substrate (deck or suitable vapour control layer), by mechanically fastening with SBT tubes and SBIW-70x70 pressure plates, or by bonding in Sarnacol 2162 cold bonding adhesive. (NB. SarnaTherm S is not suitable for bonding Sarnafil membrane to). SarnaTherm S-LPCB/FM can be loose laid, if sufficient ballast weight is provided to resist wind uplift pressures.