

➤ Application

- Insulation for flat roofs waterproofed with partially bonded torch applied multi-layer bituminous waterproofing.

➤ Insulation Material

- Across our product range we offer a variety of insulation materials, from innovative, advanced materials to more standard options. Thermaroom TR24 is a high performance rigid thermoset polyisocyanurate (PIR) insulation.

➤ Thermal Conductivity

- The thermal conductivity (or lambda value) shows how well a material can conduct heat. The lower the thermal conductivity, the better the insulator.

Thermaroom TR24 has a thermal conductivity of:

- 0.024 W/mK (insulant thickness \geq 120 mm)
- 0.025 W/mK (insulant thickness 80 - 119 mm)
- 0.027 W/mK (insulant thickness $<$ 80 mm)

➤ Facings

- Upper Facing

The upper facing of Thermaroom TR24 is bitumen coated glass tissue finished with a thermofusible polypropylene fleece, autohesively bonded to the insulation core during manufacture.

- Lower Facing

The lower facing of Thermaroom TR24 is a mineralised glass tissue autohesively bonded to the insulation core during manufacture.

➤ Dimensions

- Thermaroom TR24 is available in the following standard size:

Width 600 mm

Length 1200 mm

➤ Thicknesses

- Thermarroof TR24 is available in the following thicknesses:
- 30 - 150 mm. Please refer to your local distributor or the Kingspan Insulation price list for current stock and non-stock sizes.

➤ Weight

- Thermarroof TR24 has an approximate weight of 4.39 kg/m² at a thickness of 100 mm.

➤ Reaction to Fire (Euroclass)

- Reaction to fire is measured with a Euroclass rating
- Under System 4 AVCP, Thermarroof TR24 has a Euroclass rating of F.

➤ Compressive Strength

- Compressive strength is a material's ability to maintain its structural integrity when compressed. The higher the compressive strength the better the material is at maintaining its structural integrity.
- The compressive strength of Thermarroof TR24 typically exceeds 150 kPa at 10% compression.

➤ NBS

- [Click here to view the NBS Product Specification](#)

➤ Installation & Handling Guidance

- [How to install flat roof insulation over a plywood deck](#)
- [How to install flat roof insulation over a concrete deck](#)
- [How to install flat roof insulation over a metal deck](#)

➤ Manufacturing Sustainability Information

- Net Zero Energy/Renewable Energy

Thermarroof TR24 is manufactured in our Pembridge, Herefordshire and Selby, North Yorkshire facilities. By the end of 2020, 100% of the non-renewable operational energy used in manufacturing processes in these sites was matched through the use of renewable energy and the purchase of renewable energy certificates (to offset any remaining non-renewable energy use).

- Net Zero Carbon Manufacturing

Our groupwide aim is to achieve net zero carbon (CO₂e) emissions (scope 1 & 2) from our manufacturing activities by the end of 2030.

- Waste to Landfill

Our Planet Passionate goal is to send zero waste to landfill by 2030.

- Responsible Sourcing

Thermarroof TR24 produced at Kingspan Insulation's Pembridge, Herefordshire manufacturing facility is manufactured under a management system certified to ISO 14001: 2015.

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[View the Environmental Product Declaration \(EPD\)](#)

➤ Regulatory Information

- Click on the below links to view the regulatory information

[Building Regulations - Energy](#)

[Building Regulations - Fire](#)