



YOUNGTHERM® POLYESTER

Thermal and Acoustic Insulation

GENERAL DESCRIPTION

YOUNGTHERM® Polyester Roof Insulation is a high-performance thermal and acoustic insulation material designed for use in residential roofs. The insulation is intended for applications requiring effective thermal resistance, acoustic absorption, moisture resistance, and long-term durability.

Manufactured from durable polyester fibres, the product maintains its shape and performance over time without sagging or settling and supports improved indoor comfort and energy efficiency.

MATERIAL COMPOSITION

YOUNGTHERM® Polyester Roof Insulation is manufactured from bonded polyester fibres produced without the use of harmful chemicals or irritant materials.

The product is lightweight, non-toxic, and environmentally responsible. It is safe to handle, does not release irritating fibres, and is resistant to moisture, mould, and mildew growth.

FIRE PERFORMANCE

YOUNGTHERM® Polyester Roof Insulation complies with applicable fire performance standards and national building regulations:

- Complies with **SANS 10400** – Application of the National Building Regulations
- Tested in accordance with **SANS 53501-1** – Fire performance classification: **B - s1,d0**
- **SANS 11925-2** – Spread of flame: Nil
- Does not smoulder

Test reports are available on request.

APPLICATIONS

Suitable for use in:

Residential roofing systems

New-build and retrofit applications

Buildings requiring safe, non-irritant insulation solutions

Roof assemblies where thermal resistance and acoustic comfort are required

PERFORMANCE REQUIREMENTS

Thermal Performance

- Reduces heat gain and heat loss through roof assemblies
- Supports improved building energy efficiency
- Provides stable thermal resistance over the service life of the product

Acoustic Performance

- Provides effective sound absorption
- Reduces external noise from rain, traffic, and environmental sources
- Improves internal acoustic comfort in residential and commercial environments

SUSTAINABILITY AND COMPLIANCE

YOUNG THERM® Polyester Roof Insulation supports sustainable building practices:

- Manufactured from environmentally responsible materials
- Eco-friendly and recyclable
- Free from harmful chemicals
- Long service life reduces replacement frequency
- Contributes to reduced operational energy consumption

DURABILITY AND ENVIRONMENTAL RESISTANCE

- Non-hygroscopic and moisture resistant
- Will not support mould, mildew, or vermin growth
- Odourless and chemically inert
- Compatible with all common building materials
- Will not corrode metals
- Retains shape and performance without sagging or settling

INSTALLATION REQUIREMENTS

Installation shall be carried out in accordance with manufacturer recommendations and standard industry practice. Care shall be taken to ensure correct positioning, continuity, and ventilation clearance to achieve optimal thermal and acoustic performance.

Installation Method

- **Roof Installation:** Lay the insulation above and in close contact with the ceiling, fitting it snugly between roof beams or trusses.
- **Wall Installation:** Ensure a tight fit behind cladding material.
- **Avoid Overheating:** Leave a minimum gap of 150mm around recessed lights, flue pipes, and ceiling fans.
- **Do Not Block Ventilation:** Do not block eave gaps or air bricks
- **Continuity:** Ensure the insulation is continuous, carefully butting the ends of rolls together.
- **Safety Tip:** Do not walk on ceiling boards; only walk on crossbeams or trusses.
- **Off-cuts:** Use off-cuts to fill gaps, crevices, and corners

STANDARD PRODUCT DIMENSIONS AND THERMAL VALUES

THICKNESS	LENGTH	WIDTH	PRODUCT R-VALUE
55 mm	10 m	1.2 m	0.74
50 mm	10 m	1.2 m	1.18
75 mm	8 m	1.2 m	1.57
100 mm	6 m	1.2 m	1.96
135 mm	5 m	1.2 m	2.51
145 mm	5 m	1.2 m	3.77

HANDLING AND STORAGE

- **Protective Equipment:** No special protective equipment is required, as the product is non-irritant and safe to handle
- **Cutting:** Cut to size using industrial scissors or shears
- **Storage:** Store in a dry, covered environment to prevent moisture exposure.
- **Fire Safety:** Do not expose the product to naked flames or direct ignition sources.
- **Compression:** Prevent compression during storage and transport
- **Recover Loft:** Allow 30 days for full thickness recovery after unpacking

SUPPLIER AND TECHNICAL SUPPORT

YOUNG THERM® Polyester Roof Insulation is supplied and supported by **Youngman Roofing & Insulation**, an established South African manufacturer and distributor of roofing and insulation solutions. For technical assistance, product selection, specification support, and project-specific guidance, contact:

Technical consultation is recommended to confirm product selection, thickness, and installation requirements for specific project conditions.

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