

Product Data Sheet

Therma™ TR26

Flat Roof Insulation Board

Insulation for Waterproofed Flat Roofs



Therma™


Kingspan®

Therma™ TR26

Product Description

Therma™

Therma TR26 is a fibre-free rigid thermoset insulation, faced on both sides with a composite foil autohesively bonded to the insulation core during manufacture.

Therma TR26 is manufactured with a blowing agent that has zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP).

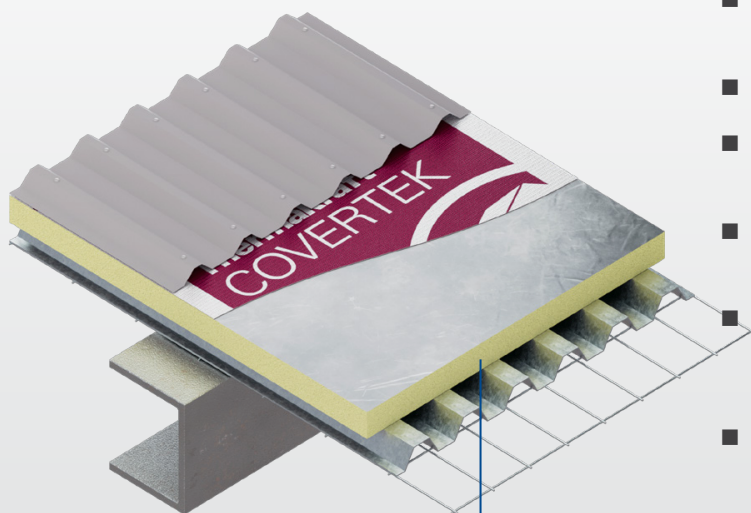


Figure 1. Kingspan Therma™ TR26 in a Built-up Metal Deck Roof.

- Rigid polyisocyanurate (PIR) thermoset insulation
- Easy to handle and install
- Ideal for new build and refurbishment
- Compatible with most green roof systems
- Fully compatible with most mechanically fixed single-ply waterproofing systems
- Installation technique is ideal for fast track building programmes

Kingspan
Therma TR26

Fibre-free
Core

Product Details

Product Description

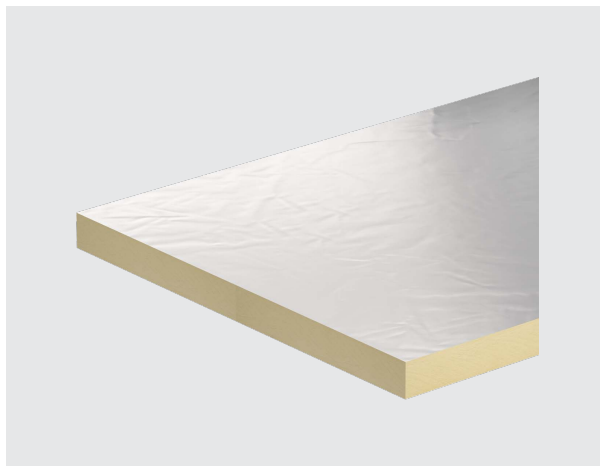


Figure 2. Aluminium foil-faced Therma TR26.

Kingspan Therma™ TR26 is a fibre-free rigid polyisocyanurate (PIR) thermoset insulation faced on both sides with a composite foil autohesively bonded to the insulation core during manufacture.

Kingspan Therma TR26 is manufactured with a blowing agent that has zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP)

Product Data

Thermal Conductivity at 15°C (λ -value) as per AS/NZS 4859.1:2018	0.022 W/mK
Product Dimensions	2400mm x 1200 mm (2.88 m ²)
Product Thickness	25, 30, 40, 50, 60, 70, 75, 80, 90, 100, 120, 140 mm

Note: Minimum order quantities apply.

Product R-value

Nominal Product Thickness	Declared Product R-value at 15°C
25mm	1.10
30mm	1.35
40mm	1.80
50mm	2.25
60mm	2.70
70mm	3.15
75mm	3.40
80mm	3.60
90mm	4.05
100mm	4.50
120mm	5.45
140mm	6.35

The λ -values and R-values detailed on this page are quoted in accordance with AS/NZS 4859.1:2018. Product R-values are calculated using the calculated $\lambda_{50/90}$, not the declared value

Scope of Use

Therma TR26 is a fibre-free rigid thermoset insulation, faced on both sides with a composite foil.

Therma TR26 Flat Roof Insulation Board is:

- Suitable for new build and refurbishment
- Suitable for use with most mechanically fixed single-ply waterproofing systems
- Therma TR26 is generally used with proprietary roofing systems. For technical details and mechanical fixing installation instructions, consult the proprietary roofing system supplier.

Example Constructions

Kingspan Therma™ TR26 in a Built-up Metal Deck Roof

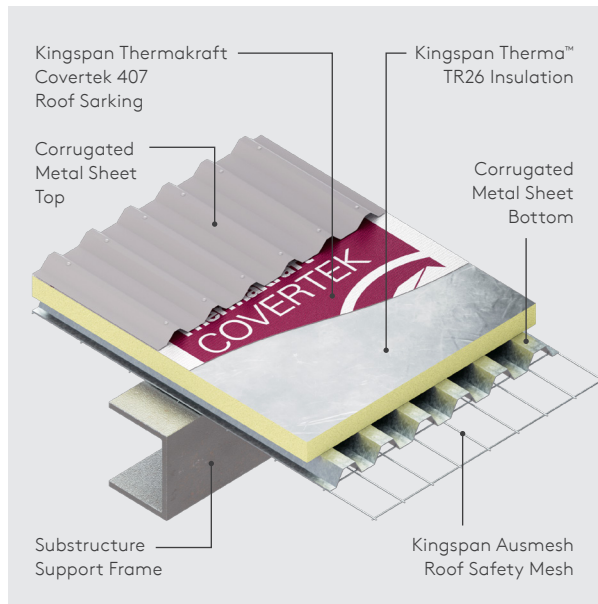


Figure 3. Kingspan Therma™ TR26 in a Built-up Metal Deck Roof.

Kingspan Therma™ TR26 in a Built-up Metal Deck Roof with Acoustic Board

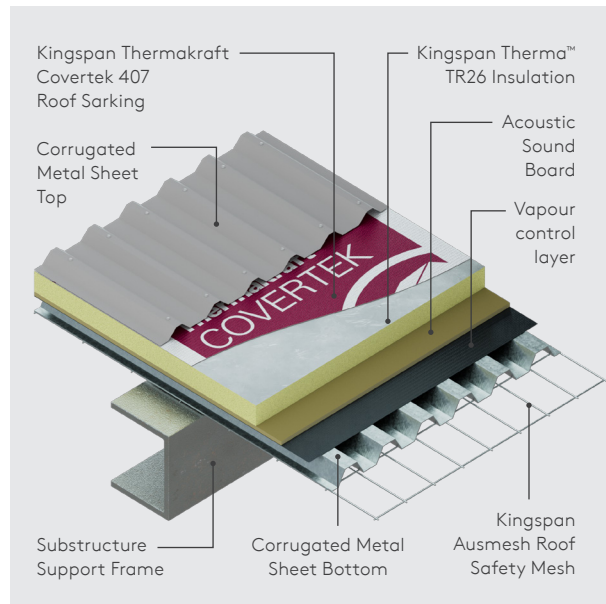


Figure 4. Kingspan Therma™ TR26 in a Built-up Metal Deck Roof with Acoustic Sound Board.

Green Roof Systems

Kingspan Therma™ TR26 in an Extensive Green Roof Covering – Metal Deck with No Ceiling Roof

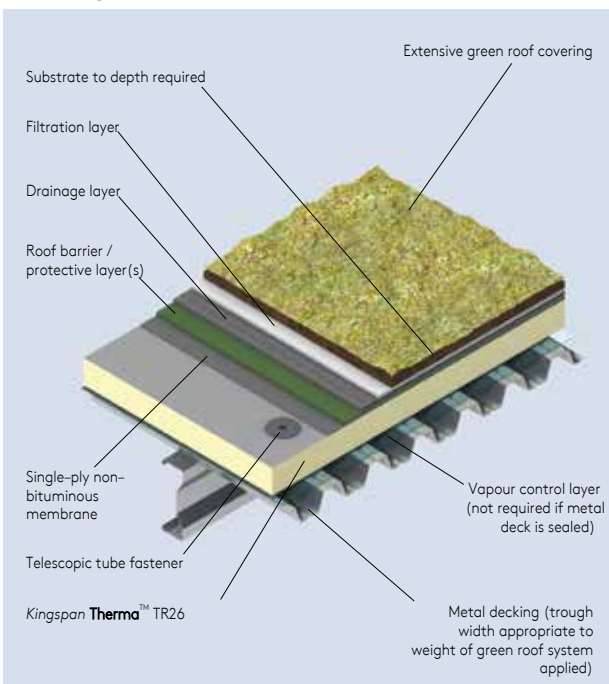


Figure 5. Kingspan Therma™ TR26 in an Extensive Green Roof Covering – Metal Deck with No Ceiling.

Kingspan Therma™ TR26 in a Semi-Intensive Green Roof Covering – Dense Concrete Deck with Suspended Ceiling

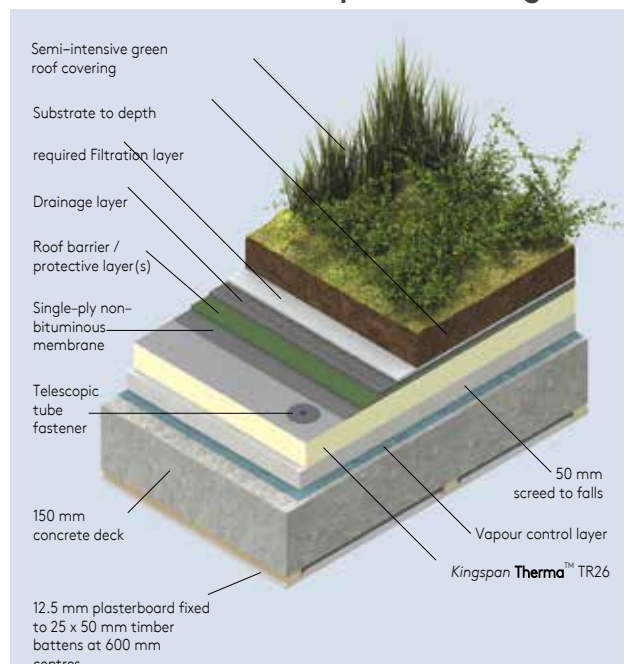


Figure 6. Kingspan Therma™ TR26 in a Semi-Intensive Green Roof Covering – Dense Concrete Deck with Suspended Ceiling

Product Details

General

- NZBC and AS/NZS 4859.1:2018 compliant.
- Therma TR26 is not subject to a warning or a ban under section 26 of the Building Act 2004, when used as per the scope of use.
- Therma TR26 generally does not require regular maintenance, however, damaged, dented, or fractured, insulation boards must be replaced.
- Therma TR26 is manufactured in the United Kingdom

Specification Guide

The roof insulation shall be Kingspan Therma™ TR26 _____ mm thick, comprising a rigid thermoset insulation core with composite foil facings on both sides, manufactured under a management system certified to ISO 9001: 2015, ISO 14001: 2015, ISO 45001: 2018, ISO 50001: 2018 by Kingspan Insulation and shall be installed in accordance with the proprietary system instructions.

Limitations

- Not suitable for use with bitumen based built-up waterproofing systems, mastic asphalt waterproofing systems or other adhesive systems - see Therma TR27 for these applications.
- Cannot be permanently exposed to weather elements.
- Not a component for structural bracing.
- Not a fall arrest product.
- Therma TR26 is suitable for use on access decks subject to limited foot traffic.
- Where frequent foot traffic is liable to occur, it is recommended that the roof surface is protected by specially designed walkways, or a trafficable material.
- For mechanical fixing details, please refer to the technical details and installation instructions from the proprietary roofing system supplier.

Spanning on Metal Decks

The designer's attention is drawn to the requirement that insulation boards are of the minimum thicknesses shown in the table below, when used over metal decks with trough openings as shown.

Trough Opening (mm)	Minimum Insulant Thickness (mm)
≤75	25
76 – 100	30
101 – 125	35
126 – 150	40
151 – 175	45
176 – 200	50
201 – 225	55
226 – 250	60

Compliance

Therma TR26 insulation boards meet the performance requirements of NZBC Clause B1 Structure (B1.3.1, B1.3.2, B1.3.3(a)), Clauses B2 Durability (B2.3.1 (a) 50 years), Clause E3 Internal Moisture (contributes to E3.3.1), Clause F2 Hazardous Building Materials (F2.3.1), and Clause H1 Energy Efficiency (contributes to H1.3.1 and H1.3.2E) by testing and comparison with acceptable solutions H1/AS1 and H1/AS2 and verification methods H1/VM1 and H1/VM2 providing:

- It is not damaged, dented or fractured.
- It is installed in accordance with relevant proprietary system installation instructions.
- It is installed by or under guidance of Licensed Building Practitioners.

Standards and Approvals

Therma TR26 is manufactured to the highest standards and certified under the following management systems:

Standard	Management System
ISO 9001:2015	Quality Management System
ISO 14001:2015	Environmental Management
ISO 45001:2018	Health and Safety Management
ISO 50001:2018	Energy Management

Product Testing

Characteristic	Standard	Result
Compressive Stress	EN 826:2013	150 kPa at 10% compression
Flame Propagation	AS 2122.1:1993	Complies
AS 1366.2:1992		

Durability

When Therma TR26 is installed in accordance with the scope of use and the proprietary system guidelines, then they are expected to have a long life of service. Kingspan Therma products are warranted for a period of 10 years for both residential and commercial installations.

Product Details

Environmental Data

Aspect	Characteristic
Re-usability	Re-usable if removed with care (long term of service expected)
Water Use	No water used in Kingspan Insulation's manufacturing process
Blowing Agent	Manufactured with a blowing agent that has zero ODP and low GWP
CFC/HCFC	Product CFC/HCFC Free

Storage and Handling

The packaging of Therma TR26 should not be considered adequate for outdoor protection. Ideally boards should be stored inside a building. If, however, outdoor storage cannot be avoided then the boards should be stacked clear of the ground and covered with an opaque polythene sheet or weatherproof tarpaulin. Boards that have been allowed to get wet should not be used as this may cause delamination of facers.

Resistance to Solvents

The insulation core is resistant to short-term contact with petrol and with most dilute acids, alkalis and mineral oils. However, it is recommended that any spills be cleaned off fully before the boards are installed. Ensure that safe methods of cleaning are used, as recommended by suppliers of the spilt liquid.

Damaged boards or boards that have been in contact with harsh solvents or acids should NOT be used.

Health and Safety

Kingspan Insulation products are chemically inert and safe to use. A Product Safety Data Sheet is available from Kingspan Insulation NZ Ltd. Ensure all relevant New Zealand health and safety guidelines are followed when using the product.

Therma TR26 has a foil facing, which is conductive. Care must be taken when installing to ensure there is no possible contact with electricity.

Warning: Do NOT stand on or otherwise support your weight on Therma TR26 unless the board is fully supported by a load bearing surface.



Product Warranty

Standard Kingspan Insulation Warranty applies. Refer to Kingspan Insulation Warranty statement for further details. This is available online at kingspaninsulation.co.nz; or call us on 0800 806 595; or email info@kingspaninsulation.co.nz

Technical Enquiry:

For technical queries contact: technical@kingspaninsulation.co.nz or 0800 806 595.

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Kingspan Insulation NZ Limited (NZBN 9429045930393), reserves the right to amend product specifications without prior notice. The information contained in Kingspan's literature is given in good faith and based on good building practice but are not an exhaustive statement of all relevant information and are subject to any conditions contained in the Warranty. Recommendations for use should be verified as to the suitability and compliance with actual requirements, specifications and any applicable laws and regulations. All product dimensions and performance claims are subject to any variation caused by normal manufacturing process and tolerances.

Furthermore, as the successful performance of the relevant system depends on numerous factors outside the control of Kingspan (for example quality of workmanship and design), Kingspan shall not be liable for the recommendations in that literature and the performance of the Product. For other applications or conditions of use, Kingspan Insulation offers a Technical Advisory Service, the advice of which should be sought for uses of Kingspan Insulation products that are not specifically described herein. Please check that your copy of the literature is current by contacting us or visiting www.kingspaninsulation.co.nz E&OE

