

BPIS

Building Product Information Sheet

Version 1.0 July 2026

Insulation Board TH 1100

Product Name

Metecno – TH 1100

Core Material

PIR Core

Product Line

N/A

Product Description

Metecno's TH 1100 insulation boards are manufactured on a continuous production line where the fire resistant PIR core is foamed and cured between flexible facings. Metecno TH 1100 is a non-trafficable insulation board, manufactured to provide high thermal resistance for walls, ceilings, and similar building elements.

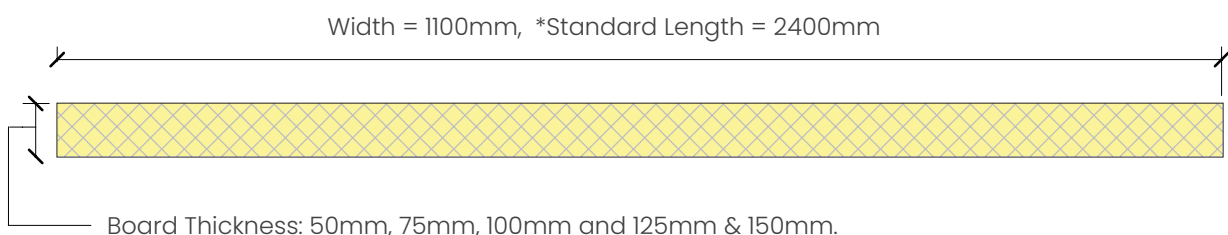
The product is supplied in flat sheet form with consistent thickness and dimensional stability to support accurate installation.

BPIS Inclusions & Exclusions

This BPIS includes Metecno's TH 1100 PIR insulation board only.

All associated fixings, tapes and other items that are required for installing TH 1100 insulation board are not supplied by Metecno NZ and compliance and suitability of use of these products are not the responsibility of Metecno NZ.

Product Identifier



*Custom Lengths up to 6000mm are also available, longer lead times apply.
All dimensions are nominal and may vary with manufacturing tolerances.

Intended Use

Metecno TH 1100 insulation boards are intended for use where thermal insulation is required to assist with satisfying the requirements of the New Zealand Building Code (NZBC).

The product may be used in typical residential and commercial applications when specified by the designer.

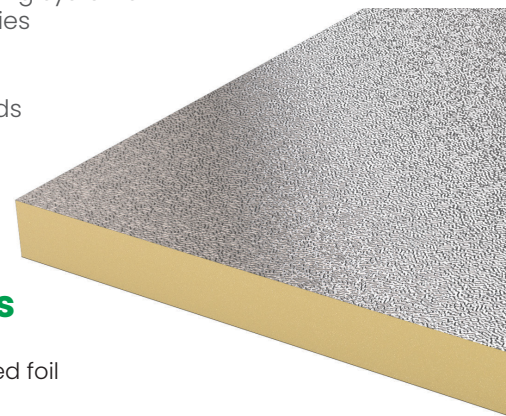
This statement applies to standard installations only and does not cover non-standard designs or proprietary systems unless explicitly detailed in the project documentation.

TYPICAL APPLICATIONS INCLUDE:

- Multi-level car parks
- Retrofitting existing buildings
- Built-up warm roofing systems
- Wall and roof cavities
- Ceiling insulation
- Soffits
- Fixing between studs

Facing Options

- Aluminium embossed foil
- Kraft paper
- Non-woven fabric
- Bare board



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Relevant Building Code Clauses	
B1 STRUCTURE	B1.3.1(a), B1.3.2, B1.3.3(a), B1.3.4
B2 Durability	B2.3.1 (a) (ii)(iii) 50 Years
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE	C3.4 (a)
E3 INTERNAL MOISTURE	Contributes to E3.3.1
F2 HAZARDOUS BUILDING MATERIALS:	F2.3.1
H1 ENERGY EFFICIENCY:	Contributes to H1.3.1(a), Contributes to H1.3.2(e)

Statement on how the building product is expected to contribute to compliance:

Metecno's TH 1100 insulation boards will contribute to meeting the following performance requirements of the NZ Building Code:

B1.3.1, B1.3.2, B1.3.3(a), B1.3.4

Metecno's TH 1100 Insulation Board is a non-trafficable insulation board and has a compressive strength of >100kPa to AS1366.2 / AS2498.3 and density of 37Kg/m³ +-5% and will satisfy the requirements of B1 Structure.

B2.3.1 (a)(ii)(iii)

When protected, installed and kept dry within the building envelope, Metecno TH 1100 is expected to meet the 50 year Durability requirement of NZBC Clause B2.

C3.4 (a)

Metecno's TH 1100 100mm thick insulation board has been tested in accordance with ISO 9705:2003 (R2016) and has achieved a Material Group Classification Number of 2s. Branz Test Report: FI21484-01.

For other thicknesses and substrate types, refer to Branz Assessment Report: FC21592-01-1.

Contributes to E3.3.1

Metecno's TH 1100 insulation board will contribute to E3.3.1. -Architects & Designers are responsible to ensure compliance.

F2.3.1

Metecno's TH 1100 insulation board will meet the performance requirements of F2.3.1.

Contributes to H1.3.1 (a) and Contributes to H1.3.2(e)

The thermal performance of Metecno's TH 1100 insulation board has declared total R values in accordance with AS/NZS 4859:2018- Parts 1 & 2. The thermal performance has been assessed against the:

- Acceptable solutions: H1/AS1 and H1/AS2.
- Verification methods: H1/VM1 and H1/VM2.

Metecno's TH 1100 will contribute to Clauses H1.3.1 and H1.3.2(e) providing the product is:

- Without any damage, dents, or fractures.
- Installed in accordance with Metecno's installation guide for TH 11000 insulation board.
- Installed dry.
- Installed by a Licensed Building Practitioner in accordance with Metecno's Installation Guide.

-Architects & Designers are responsible to ensure compliance.

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Limitations on use:

Metecno's TH 1100 insulation boards are to be used within the scope of the Design Requirements and within the bounds of Metecno's TH 1100 product literature.

www.metecno.co.nz

FIXING & STRUCTURAL REQUIREMENTS

- Metecno's TH 1100 insulation boards can be attached directly to concrete slabs or block walls using several fixing methods. The number and placement of fixings should be determined based on internal pressure, panel thickness, and the capacity of the fixings. If Metecno's TH 1100 Insulation boards are subject to external wind loads then additional fixings may be required and requires approval from Metecno and sign off from a Professional Engineer.
- Must only be used externally when the architect/ designer has considered the potential for condensation risk.
- Must only be used in built-up-warm roofing where the specific supplier of the built-up-warm roof system is satisfied of the performance and suitability of the TH 1100 insulation board.
- Where the board is used as part of a built up warm roof or cladding system, It is important to follow the specific Manufacturer's Installation recommendations as these systems comprise of many components and their specific installation requirements must be adhered too.

HANDLING, STORAGE & DURABILITY

- TH 11000 Insulation boards must remain dry, during transport, site storage and installation.
- Wet boards should not be installed.
- Durability of Metecno's TH 1100 Insulation board is dependent on supporting structure and conditions of use.

EXPOSED APPLICATIONS

- For exposed applications, contact Metecno to confirm suitability of use.

EXTERNAL FIRE SPREAD

- Metecno's TH 1100 PIR insulation boards are combustible and restricted to buildings not exceeding 10m in height and further than 1m from the relevant boundary.

Design Requirements

TH 1100 insulation board is suitable for use in buildings that:

- Comply with NZS 3604:2011 and building height up to three storeys or 10m.
- Buildings designed in accordance with NZS 1170:2:2002.
- Timber framed construction in accordance with NZS 3604:2011.
- Steel framed structures in accordance with NASH Standard Part 1:2016 Design Criteria – Alternative Solution and NASH Standard Part 2:2019 Light Steel Framed Buildings.
- Tapes are required as per Metecno's TH 1100 Installation Details and Installation Guide.
- Fixings of Metecno's TH 1100 insulation board in accordance with Metecno's Design and Installation Guide.
- The Architect/ Designer must consider the potential for condensation when designing thermal building elements. An assessment of the condensation risk should be undertaken to ensure moisture does not accumulate within the construction and compromise building performance. This assessment should align with the requirements and guidance of the New Zealand Building Code, including NZBC Clause E3 Internal Moisture. Where necessary, a condensation or hygrothermal analysis may be completed to confirm the proposed construction adequately manages moisture within the building envelope.

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Installation Requirements

Installation should be carried out by a suitably qualified practitioner.

Installation as per Metecno's TH 1100 Design and Installation Guide.

Available for download from:
www.metecno.co.nz

Disclaimer

This Building Product Information Sheet must be read in conjunction with all cited documents. Metecno NZ Limited, states that the product will, if installed in accordance with the technical data, specifications, and advice prescribed by Metecno NZ Limited, will comply with the relevant provisions of the New Zealand Building Code and satisfy our obligation to satisfy Section: S14G of the Building Act 2004.

It remains the responsibility of all other professional parties to ensure they satisfy their own obligation of the Building Act 2004. As part of Metecno NZ Limited policy of continued improvement, final specifications may vary from those contained in this publication.

The company reserves the right at any time and without notice to change the design, materials or features and withdraw products from the market without incurring any liability whatsoever.

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Is The Building Product Line subject to a warning or ban under Section 26 of the Building Act 2004:

NO
Metecno products are not subject to a warning or ban under the Building Act 2004.

Legal Entity:

Metecno New Zealand Limited
NZBN: 9429052168369
281 Ti Rakau Drive, Burswood,
Auckland 2013, New Zealand
T: 09 274 0408

Manufacturing Location:

Metecno
Metecno NZ Limited,
10 Earthmover Crescent,
Burbush 3200, Hamilton,
New Zealand

T: 07 849 1400
sales@metecno.co.nz

Supporting Information

The following documents can support demonstration of compliance of Metecno's TH 1100 insulation board with the NZ Building Code.

BUILDING ACT 2004
www.legislation.govt.nz

CITED STANDARDS
www.standards.govt.nz

NZMRM CODE OF PRACTICE
www.metalroofing.org.nz

METECNO
• TH 1100 Design and Installation Guide

Available for download from:
www.metecno.co.nz

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