

Product Data Sheet

STEICO

Rigid wood fibre insulation boards for roof and walls



- Manufactured with natural wood fibres
- Water vapour permeable
- Ideal for new builds
- STEICO Rigid Insulation Boards store carbon
- Can reduce thermal bridging
- Available in tongue and groove edges for ease of installation
- STEICO Rigid Insulation Boards are produced in accordance to EN 13171:2012+A1:2015

STEICO

Product Description



STEICO Rigid Insulation Boards are made using wood fibres. The wood fibres undergo either the wet process or the dry process to form boards.

The product range includes:

- STEICO Universal
- STEICO Universal Dry

STEICO Universal

STEICO Universal is made using the wet process, where soaked wood fibres are formed into boards as the wood's own lignin binds the boards. These boards have higher density and more strength compared to boards made using the dry process.

STEICO Universal Dry

STEICO Universal Dry is made using the dry process, where wood fibres are dried and mixed with a binder to form a board. These boards are lighter compared to STEICO Universal.



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Product Performance Data

Product Data										
Product	Board size (mm)	Thickness (mm)	Edge Profile	Cover dimensions (mm)	Thermal Conductivity (λ -value) at 15°C* (W/mK)	Product R-Value* (m²K/W)	Approximate Density (kg/m³)	Weight (kg/m²)	Pieces per pallet	Approximate Weight per pallet (kg)
STEICO Universal	2230 x 600	22	Tongue & Groove**	2210 x 585mm	0.052	0.43	270	5.94	104	825
STEICO Universal Dry	2230 x 600	40	Tongue & Groove**	2205 x 575	0.050	0.84 1.20	180	7.20 10.80	56 36	550 530

* Thermal conductivity (λ - value) and declared product R-value at 15°C as per AS/NZS 4859.1:2018

** Also available in straight edges, available on request.

NOTE: Wood fibre insulation boards should be stored flat, level and under cover. Protect edges from damage. Remove packaging only in dry conditions. Maximum stacking height: 4 pallets. Other board sizes and edge profiles are available on request subject to minimum order quantities and manufacturing lead times.

Scope of Use

STEICO Rigid Insulation Board is used as an external continuous insulation layer, suitable for the following:

- Timber and steel frame construction on both roofs and walls
- For roofs, a roof underlay such as Thermakraft Covertek 407 is required to be fixed on top of the boards.
- For walls, a wall underlay such as Watergate Plus, is required to be fixed on top of the boards.

General

- STEICO Rigid Insulation Boards are not subject to a warning or ban under section 26 of the Building Act 2004.
- Specific engineering design details need to be generated by the designer when STEICO Rigid Insulation Board is installed in front of timber or steel frame.
- Ideal for new builds.
- Water vapour permeable.
- Product made in Poland.
- STEICO Rigid Insulation Boards are disposed of as per standard wood products.

Specification Guide

The insulation shall be STEICO Universal 22mm or STEICO Universal Dry 40mm or STEICO Universal Dry 60mm thick comprising of wood fibre insulation, and shall be installed in accordance with Kingspan instructions.

Product Testing

Product	Parameter	Standard	Result
STEICO Universal	Water Vapour Resistance	ASTM E96/E96M-22	$\leq 7 \text{ MNs/g}$
STEICO Universal Dry			$\leq 7 \text{ MNs/g}$
STEICO Universal	Compressive stress at 10% deformation	EN 826:2013	$\geq 200 \text{ kPa}$
STEICO Universal Dry			$\geq 200 \text{ kPa}$
STEICO Universal	Fire Class	EN 13501-1:2018	E
STEICO Universal Dry			E

Limitations

- Cannot be permanently exposed to weather elements.
- An underlay must be applied to the external face of the STEICO Rigid Insulation Board and then permanent cladding installed within the underlay exposure period.
- Not a component for structural bracing.
- STEICO Rigid Insulation Boards are tread-resistant in the areas of support but in general must NOT be walked on.

Compliance

STEICO Rigid Insulation Boards meet the performance requirements of NZBC Clause, Clauses B2 Durability (B2.3.1 (a) 50 years), 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 installation instructions.
- It is installed by or under guidance of Licensed Building Practitioners

Standards and Approvals

Standard	Management System
ISO 9001:2015	Quality Management
ISO 14001:2015	Environmental Management



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

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

