

Product Technical Statement

City Timber – Stagwood Thermory® Timber Cladding

Product Description

Thermory® Timber Cladding comprises thermally modified timber cladding manufactured from sustainably sourced European softwoods, including Spruce (*Picea abies*) and Scots Pine (*Pinus sylvestris*). The timber is modified using Thermory's proprietary chemical-free thermal modification process, which utilises heat and steam to improve dimensional stability, biological durability and moisture resistance.

Thermory cladding is precision machined into a range of architectural profiles and surface finishes suitable for exterior and interior applications in residential and commercial construction.

Product Range		
Product	Species	Typical Use
Thermory® Spruce Pine Cladding	<i>Picea abies</i>	External & Internal Cladding
Thermory® Scots Pine Cladding	<i>Pinus sylvestris</i>	External & Internal Cladding

Product Range		
Property	Thermory® Spruce Pine Cladding	Thermory® Scots Pine Cladding
Species	<i>Picea abies</i>	<i>Pinus sylvestris</i>
Modification	Thermory® Scots Pine Cladding	Thermally Modified
Durability	Approx. Class 2 Above Ground	Approx. Class 2 Above Ground
Moisture Content	4-5%	4-5%
Dimensional Stability	Enhanced	Enhanced
Decay Resistance	Improved	Improved
Thermal Conductivity	Reduced	Reduced
Density	Approximately 430–470 kg/m³	
Dimensional Stability	Significantly improved compared with untreated spruce, reducing swelling, shrinkage and movement in service.	
Decay Resistance	Enhanced resistance to fungal decay through thermal modification.	
Thermal Conductivity	Lower thermal conductivity than untreated timber, contributing to improved thermal performance.	



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Compliance

This product is intended to be installed in accordance with:

- National Construction Code (NCC)
- AS 1684 Residential Timber-Framed Construction
- AS 1720 Timber Structures
- AS 3959 Construction of Buildings in Bushfire-Prone Areas (where applicable)
- FWPA Standard D01
- Quality Management System (QMS) – ISO 9001:2015
- Wood Solutions FCO-3590 Assessment of the Fire Hazard Properties of Various Timber Species in Accordance with AS 5637.1:2015 and ISO 9239.1:2003.

Bushfire Performance

Thermory® Spruce Cladding is a combustible timber product.

Use in bushfire-prone areas shall be assessed in accordance with AS 3959 and the applicable Bushfire Attack Level (BAL). Compliance with BAL requirements are dependent upon the complete wall system, fixing method and project-specific certification.

Project-specific compliance should be confirmed by the project designer or building certifier.

Fire Performance

Timber is a combustible building material. Where fire-resisting construction or non-combustible construction is required under the NCC, project-specific assessment should be undertaken by the project fire engineer or certifier.

Installation

Installation shall be undertaken by suitably qualified tradespersons.

Cladding shall be installed over compliant battens and weather-resistant barriers in accordance with:

- National Construction Code (NCC)
- FWPA Timber Cladding Installation Guide
- Thermory® Installation Guidelines
- Manufacturer's Installation Guide
- Adequate cavity ventilation and drainage shall be provided.
- Recommended stainless steel fixings shall be used.
- Expansion gaps, fixing centres and ventilation requirements shall comply with Thermory® recommendations.

Finishing

Thermory® Spruce Cladding may be installed unfinished where natural weathering to an even silver-grey appearance is acceptable.

Where colour retention is desired, a premium exterior timber coating incorporating UV inhibitors should be applied prior to installation and maintained in accordance with the coating manufacturer's recommendations.

Regular inspection and maintenance will maximise service life and appearance.

Sustainability

Thermory® Spruce Cladding is manufactured from sustainably sourced European timber.

The thermal modification process uses only heat and steam without chemical preservatives.

Timber is sourced from responsibly managed forests and is available with FSC® or PEFC™ Chain of Custody certification, subject to supply.

Thermally modified timber is a renewable, low embodied carbon building material that stores atmospheric carbon throughout its service life.

Storage

- Store flat, dry and undercover.
- Protect from direct sunlight and weather prior to installation.
- Allow the cladding to acclimatise on site before installation.
- Avoid prolonged exposure to moisture before installation.

Warranty

Warranty is subject to:

- Correct installation
- Compliance with Thermory® and NCC installation requirements
- Appropriate cavity ventilation
- Use of recommended fixings
- Ongoing maintenance
- Suitable coating systems where applicable
- Refer to the manufacturer's warranty documentation for project-specific warranty terms.

Limitations

This Product Technical Statement provides general technical information only. Project-specific structural, fire, weatherproofing and NCC compliance requirements remain the responsibility of the project designer, architect and building certifier.

Thermory® Spruce Cladding is a combustible timber product and should only be used where permitted under the applicable provisions of the National Construction Code.

Technical Support

For specification assistance, CAD details, installation guidance or project-specific advice, please contact our technical team. Current technical literature is available upon request.

