

THERMORY NORDIC PINE CLADDING SYSTEM

PURPOSE

Timberline supplies the Thermory Nordic Pine cladding system for use as an external weatherboard cladding system. The system comprises weatherboards, fascia, cover boards, scribes and mouldings.

EXPLANATION

The Thermory Nordic Pine cladding system is a thermally modified timber weatherboard cladding system manufactured from PEFC and FSC (if requested) certified Northern European Scots Pine. The timber is heat-treated at 215 °C or greater with no chemicals added. The thermal modification process changes the physical properties of the timber, so the timber becomes more stable and resistant to rot.

The Thermory Nordic Pine cladding system is available in profiles specified in NZS 3617:1979 (horizontal bevel back, horizontal rebated bevel back, horizontal rusticated, vertical shiplap, and vertical board and batten), and in different lengths.



For further assistance please contact:

- ☎ 0508 337 446
- ✉ enquiries@timberline.co.nz
- 🌐 www.timberline.co.nz



SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location In wind zones up to and including extra high, as defined in NZS 3604:2011 or to a design wind pressure (ULS) of 2.5 kPa. In all exposure zones, as defined in NZS 3604:2011. At least 1 m from a relevant or notional boundary.	> Use in microclimatic conditions, as defined in NZS 3604:2011, is excluded. > Fastenings must be stainless steel.
Building On timber or lightweight steel framed buildings that comply with the NZ Building Code, or existing buildings where the designer and/or installer have satisfied themselves that the existing building is suitable for the intended building work. On buildings within the scope of paragraph 1.1 of Acceptable Solution E2/AS1. Direct fixed or installed over a cavity in accordance with Table 3 of Acceptable Solution E2/AS1.	> A thermal break must be installed if the framing is lightweight steel. > Vertical shiplap profiles may be direct fixed up to a risk matrix score of 6 and in accordance with E2/AS1 Section 9.4.5. > Where the risk matrix score is 7 - 12 (Table 3, E2/AS1), vertical shiplap profiles to be installed in accordance with Timberline installation requirements. > Vertical board and batten to be direct fixed in accordance with E2/AS1 and where the risk matrix score is 12 or less.

CONDITIONS OF USE

Where restricted building work applies, the designer and installer must be able to meet their restricted building work obligations.

USEFUL INFORMATION

For information on the design, installation and maintenance of the Thermory Nordic Pine cladding system and for our warranty refer to www.timberline.co.nz.

OTHER CERTIFICATIONS AND APPROVALS HELD BY THE MANUFACTURER

- > FSC License Code FSC-C074560 Thermory AS, Certificate Code NC-COC-009078, issued 01/04/2020.



VERSION:

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Timberline requirements, the Thermory Nordic Pine cladding system will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE ¹	
	Compliance statement	Demonstrated by
B1 Structure B1.3.1, B1.3.2, B1.3.3 (a, e, f, h, j, m, q, and in respect of UV radiation), B1.3.4 (a, b, c, d)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Comparison with NZS 3604:2011 characteristics for timber products (paragraph 3.2.1). ➤ Dimensions – profiles in accordance with NZS 3617:1979. Paragraph 104.1.1.1 of NZS 3602:2003 (cited in NZS 3604:2011, cited in Acceptable Solution B1/AS1) and paragraph 5.1 of NZS 3617:1979 for the required dimensions of weatherboards. ➤ Moisture content – thermally modified timber has a lower equilibrium moisture content compared to the kiln-dried equivalent [Thermory, 07/2018]. Thermory Nordic Pine is comparable with NZS 3602:2003 materials (e.g., radiata pine) [Thermory, 07/2018; The Wood Database, n.d.]. ➤ Physical characteristics – Thermory Nordic Pine has a comparable modulus of elasticity and bending strength to NZS 3602:2003 materials (e.g., radiata pine) [Thermory, 07/2018; The Wood Database, n.d.].
B2 Durability B2.3.1(b)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Class 2 durability to EN 15083-1 [CATAS, 06/03/2012].
E2 External moisture E2.3.2, E2.3.3, E2.3.5, E2.3.7 (a, b, c)	ACCEPTABLE SOLUTION E2/AS1	<ul style="list-style-type: none"> ➤ Profiles in accordance with NZS 3617:1979, cited in E2/AS1, paragraph 9.4.1.1.
	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Timberline E2 comparison for vertical shiplap profiles and a risk score 7 - 12.
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Weatherboards are treated at 215 °C using heat and steam and no chemicals are added [Thermory, 07/2018].

1. The Compliance Statement is the pass holder's statement that they have met their obligations under s14G(2) of the Building Act 2004.

SOURCES OF INFORMATION

- CATAS. [06/03/2012] *Durabilità naturale del legno verso funghi basidiomiceti UNI CEN/TS 15083-1:2005*. Rapporto di prova 132647/1.
- Thermory. [July 2018] *Data sheet: Thermally modified pine for outdoor cladding*.
- The Wood Database. [n.d] *Radiata Pine*. Retrieved from <https://www.wood-database.com/radiata-pine/> [Accessed 07/10/2020].
- The Wood Database. [n.d] *Scots Pine*. Retrieved from <https://www.wood-database.com/scots-pine/> [Accessed 07/10/2020].
- Timberline. [14/04/2021]. *Timberline Thermory vertical shiplap*

weatherboards Weathertight Evaluation. For where E2/AS1 risk score is 6-12. V1.0.

Scan or click this QR code for a full download of Compliance Documentation for this pass™.
www.timberline.co.nz



2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards.

VERSION:
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DATE:
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Signed on behalf of Timberline:

Note: Uncontrolled in printed format.

NAME:
.....

Joe Lagan

POSITION:
.....

Managing Director

By signing this pass™ the signatory confirms that, in respect of the subject of this pass™, the company has met their s14G obligations under the Building Act 2004.



33 Iversen Terrace, Christchurch 8011 > enquiries@timberline.co.nz > 0508 337 446 > www.timberline.co.nz

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