# THERMORY®

THERMORY® Clear Pine is produced at 419°F in a special computer-controlled kiln. The process uses only heat and steam, no chemicals are added.

During the modification process, chemical and structural changes occur within the timber which improve some of its basic characteristics. The resulting product is more durable and stable – an ideal material for use in exposed areas such as external facades.

Thermory procures Clear Pine from New Zealand, from region that takes care of the forest responsibly and sustainably.

○ Durable (Class 2), dimensionally stable in changing weather conditions and thus ideal for use in outdoor settings.

○ Thermal modification is chemical-free and enhances the wood throughout, not just the outer surface.

## Data sheet

## Radiata Pine Cladding

**USE**

INTERIOR / EXTERIOR CLADDING

**THERMAL MODIFICATION**

INTENSE
(THE TEMPERATURE IS AT LEAST 419 DEGREES)

STABLE    REAL WOOD PRODUCTS    HIGH DURABILITY    SUSTAINABLE    THERMALLY MODIFIED    CHEMICAL FREE NON TOXIC

**BENCHMARK** by THERMORY®



Benchmark Clear Pine Cladding Kiikri Residential Development in Estonia.
Photo: Allan Leppikson

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Benchmark Clear Pine & Benchmark Pine Cladding, C19 Smooth
7 Seas Brewing. Gig Harbor, Washington. Ferguson Architecture

| WOOD SPECIES | Radiata Pine *(Pinus radiata)* |
| --- | --- |
| COMMONLY USED CUSTOMS CODE | 4409101800 |

| CHARACTERISTICS OF THERMALLY MODIFIED RADIATA PINE (SAWN, PLANED AND PROFILED) | | CORRESPONDING STANDARD/TEST REPORT |
| --- | --- | --- |
| DURABILITY CLASS (TESTED BY CATAS) | 2 - durable | CEN/TS 15083-1:2005 (Test No 215578 / 1, 09.01.2017) |
| INITIAL MOISTURE CONTENT (%) | 4.0–11.0 | Internal factory test 01.10.2022 |
| COUNTRY OF ORIGIN | Estonia | |
| CERTIFICATION | FSC®/PEFC® certified products - please check for available dimensions and profiles. | |
| SURFACE | Planed, sawn, brushed, and embossed/pressed pattern surface possible on our Cladding. | |
| COLOR | Golden Brown with a slight bronze glow. Color variations in thermally modified wood are a result of variations in growth conditions of the tree and are fully acceptable. Wood will weather to grey unless a UV penetrating oil is applied and maintained. Due to porous nature of Radiata Pine it is recommended to always oil all 4 sides before installation. | |
| COATING | Other colors can be acheived by using a penetrative oil with an additive color. Stripes profiles have paint applied to the valleys of profiles. | |

Benchmark Clear Pine Cladding Architect,
PVL Architekten Distributor Carpentier

| | |
|---|---|
| **GRADING** | Grade: Clear. Pruned radiata pine is the clearest among softwoods. Boards are graded by the better face (smooth surface, no hit & miss, no wane). The back face and lower ½ of the sides may have defects as long as the defects do not affect installation and are not visible after the installation. More information from file: "Thermory Clear Pine Grading Rules". |
| **STANDARD THICKNESSES** | 0.79 in |
| **STANDARD WIDTHS** | 2.6 - 5.4 in (depending on profile). |
| **STANDARD LENGTHS** | 5.9 - 15.8 ft (lengths are subject to availability). |
| **HANDLING** | Thermory® cladding boards should be stored out of the sun, rain and other elements. When this is not possible, boards need to be elevated off the ground, stacked uniformly and covered with a waterproof tarp. Leave the ends of the tarp open so moisture is not trapped inside, making certain the stored wood is not subjected to the elements or sun as UV rays will fade the material. Under no circumstances should Thermory® boards, even in original packaging, be subjected to rain or any moisture as they cannot dry properly when stacked and/or packaged. |
| **WASTE MANAGEMENT** | Thermory naturally enhances wood using only heat and steam. Thermally modified wood does not need to be treated as hazardous waste. |

Riga, Ķīpsala. Dual Arhitekti. Photo: Elvis Licitis

Last updated: May 2024.
All previous versions are null and void.

→ ThermoryUSA.com

## THERMORY®
LEAVE A LASTING IMPACT