THERMORY®

THERMORY® 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 Scots Pine from Northern Europe, 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

Pine Cladding

USE	THERMAL MODIFICATION
INTERIOR / EXTERIOR CLADDING	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 Pine Cladding. M&M res. develop.
Distributor Moelven. Design TAG Arkitekter
Photo: Veronika Stuksrud

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WOOD SPECIES	Scots Pine (Pinus Sylvestris)
COMMONLY USED CUSTOMS CODE	4409101800

CHARACTERISTICS OF THERMALLY MODIFIED PINE (SAWN, PLANED AND PROFILED)		CORRESPONDING STANDARD/TEST REPORT
DURABILITY CLASS (TESTED BY CATAS)	2 - durable	CEN/TS 15083-1:2005 (Test No 132647/1, 06-03-2012)
INITIAL MOISTURE CONTENT (%)	4.0-7.0	Internal factory test 01.10.2022
EQUILIBRIUM MOISTURE CONTENT AT 77°F, (%)*	35%RH – 4.2 ; 65%RH – 5.9 ; 90%RH – 13.7	Test No 11-40/EK/2147-2, 20.02.2018
CHANGE IN WIDTH AND THICKNESS IF TAKEN FROM RH 35% TO RH 65% AT 77°F*	0.39%	Test No 11-40/EK/2147-2, 20.02.2018
BENDING STRENGTH (LBF/IN²)*	2,525	Test No 17-6/KML/26, 25.11.2016
MODULUS OF ELASTICITY (LBF/IN²)*	498,929	Test No 17-6/KML/26, 25.11.2016
OVEN-DRY DENSITY (LBF/FT³)*	25.94	Test No 11-40/EK/2147-2, 20.02.2018
JANKA HARDNESS*	580	EVS-EN 1534:2010 (Test No 17-6/KML/26, 25.11.2016)
FLAME SPREAD	Class B	ASTM E84

* The values given are the mean results of testing, apply only in the aforementioned conditions and are not partially applicable.
The tests were conducted by Tallinn University of Technology.

Benchmark Pine Cladding & Decking D45J, Puerto San Antonio, Chile.
Photo: Juan Francisco Vargas

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. 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.
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.
GRADING	Boards are graded by the better face (smooth surface, no hit & miss, no wane). The back side and lower ½ of the sides may have defects such as big knots, broken and dead knots, hit & miss, mechanical damages as long as the defects do not affect installation and are not visible after the installation. More information from file: "Thermory Pine Grading Rules".
STANDARD THICKNESSES	0.79 in, 1.02 in, and 1.65 in (depending on profile).
STANDARD WIDTHS	2.6 - 5.5 in (depending on profile).
STANDARD LENGTHS	9.8 ft - 17.7 ft (lengths are subject to availability).

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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.

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THERMORY®
LEAVE A LASTING IMPACT