



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

USE

OUTDOOR DECKING

Pine Decking

THERMAL MODIFICATION

INTENSE
(THE TEMPERATURE IS AT LEAST 419 DEGREES)



DIMENSIONAL STABILITY



REAL WOOD PRODUCTS



DURABILITY



SUSTAINABLE



THERMALLY MODIFIED WOOD



ECO-FRIENDLY / CHEMICAL-FREE PROCESS

 **BENCHMARK**
by THERMORY®



Benchmark Pine Decking, Aged & Uncoiled, Norway
Photo: Moelven Wood Projekt

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Benchmark Pine Decking, 1x5, profile D30. Surf Club Estonia

WOOD SPECIES	Scots Pine (<i>Pinus Sylvestris</i>)	
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 25°C, (%)*	35%RH – 4,2 ; 65%RH – 5,9 ; 90%RH – 13,7	Test No 11-40/EK/2147-2, 20.02.2018
GROWTH IN WIDTH AND THICKNESS IF TAKEN FROM RH 35% TO RH 65% AT 25°C*	0,39%	Test No 11-40/EK/2147-2, 20.02.2018
BENDING STRENGTH (N/MM²)*	2,525	Test No 17-6/KML/26, 25.11.2016
MODULUS OF ELASTICITY (GPA)*	498,929	Test No 17-6/KML/26, 25.11.2016
OVEN-DRY DENSITY (KG/M³)*	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 Decking, Private Home, Norway
Distributor Moelven, Photo credit Einar Breen

COUNTRY OF ORIGIN	Estonia
CERTIFICATION	FSC®/PEFC® certified products - please check for available dimensions and profiles.
SURFACE	Planed or brushed surface possible on our Decking.
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 achieved by using a penetrative oil with an additive color.
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	1.02 in and 1.65 in (depending on profile).
STANDARD WIDTHS	5.5 in (depending on profile).
STANDARD LENGTHS	9.8 ft - 17.7 ft with 1 ft steps (lengths are subject to availability).



Benchmark Ash Decking, Waterfront Project, Norway

HANDLING

Thermory® decking 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.

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