

THERMORY®

THERMORY® Spruce 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 cladding.

Thermory procures spruce from Northern Europe, from region that takes care of the forest responsibly and sustainably.

Highly durable (Class 1), 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

INTERIOR / EXTERIOR CLADDING

Spruce Cladding

THERMAL MODIFICATION

INTENSE (THE TEMPERATURE IS AT LEAST 419 DEGREES)



STABLE



REAL WOOD PRODUCTS



HIGH DURABILITY



SUSTAINABLE



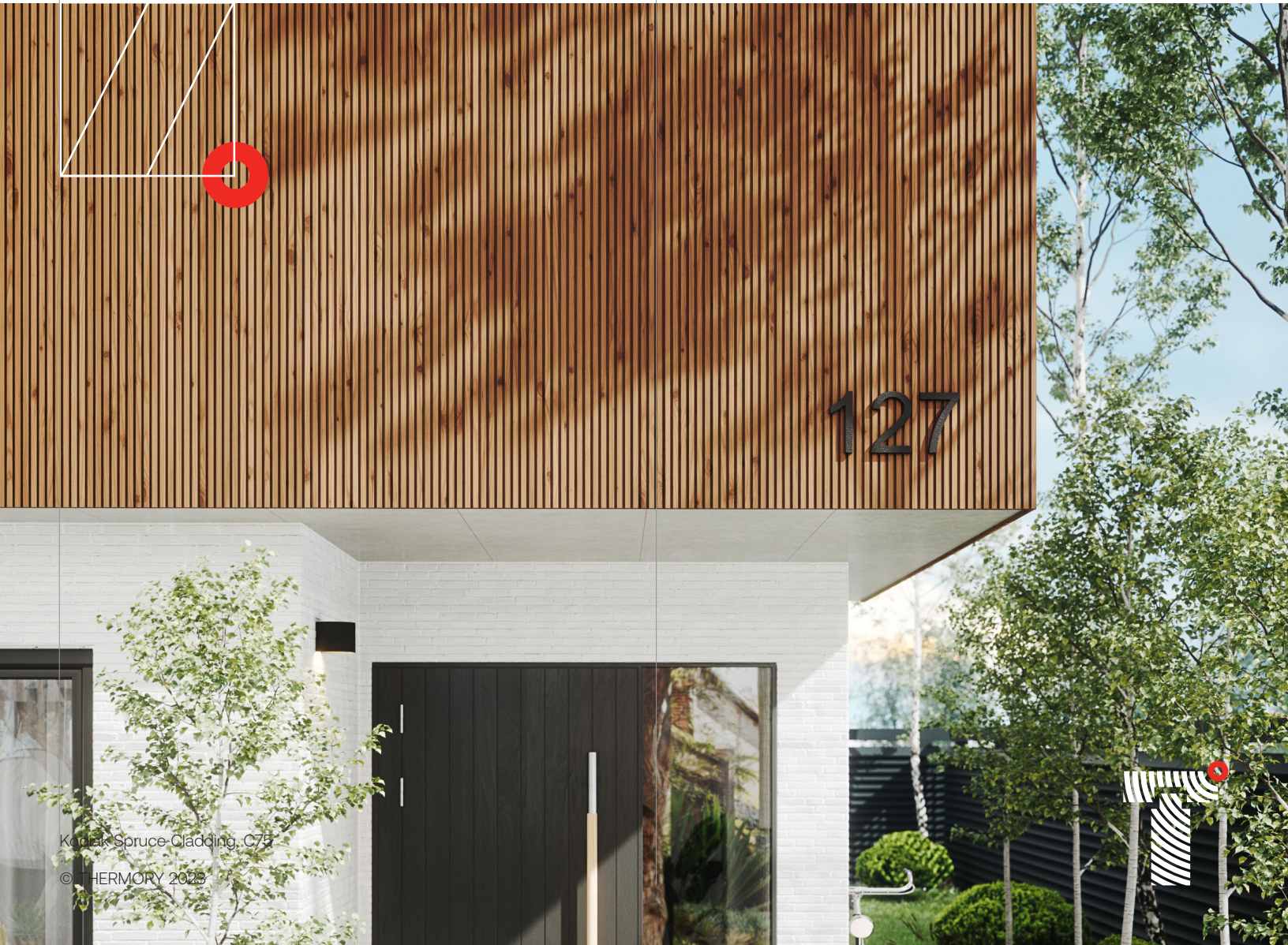
THERMALLY MODIFIED



CHEMICAL FREE NON TOXIC



BENCHMARK
by THERMORY®





Spruce Cladding, oiled. Villart Tiny House. Photo: Margus Vilisoo

WOOD SPECIES	Norway Spruce (<i>Picea Abies</i>)	
COMMONLY USED CUSTOMS CODE	4409101800	
CHARACTERISTICS OF THERMALLY MODIFIED SPRUCE (SAWN, PLANED AND PROFILED)	CORRESPONDING STANDARD/TEST REPORT	
DURABILITY CLASS (TESTED BY CATAS)	1 - very durable	CEN/TS 15083-1:2005 (Test No 132648 / 1, 06.03.2012)
INITIAL MOISTURE CONTENT (%)	4.0-7.0	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. 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 resistant coating is applied and maintained.	
COATING	Other colors can be achieved by using a penetrative oil with an additive color. Stripes profiles have paint applied to the valleys of profiles.	



Kodiak Spruce Cladding, 1x8 C15
Sheboygan Falls, Wisconsin. Photo: Tia Sinclair-Kemp

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 Spruce Grading Rules".
STANDARD THICKNESSES	0.79 in to 1.02 in (depending on profile).
STANDARD WIDTHS	5.5 - 8.3 in (depending on profile).
STANDARD LENGTHS	9.8 - 17.9 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.



Kodiak Spruce Cladding, CAR10G Stripes

Last updated: October 2023.
All previous versions are null and void.



THERMORY®
LEAVE A LASTING IMPACT