



**THERMORY**

Excellence in Wood

DATA SHEET

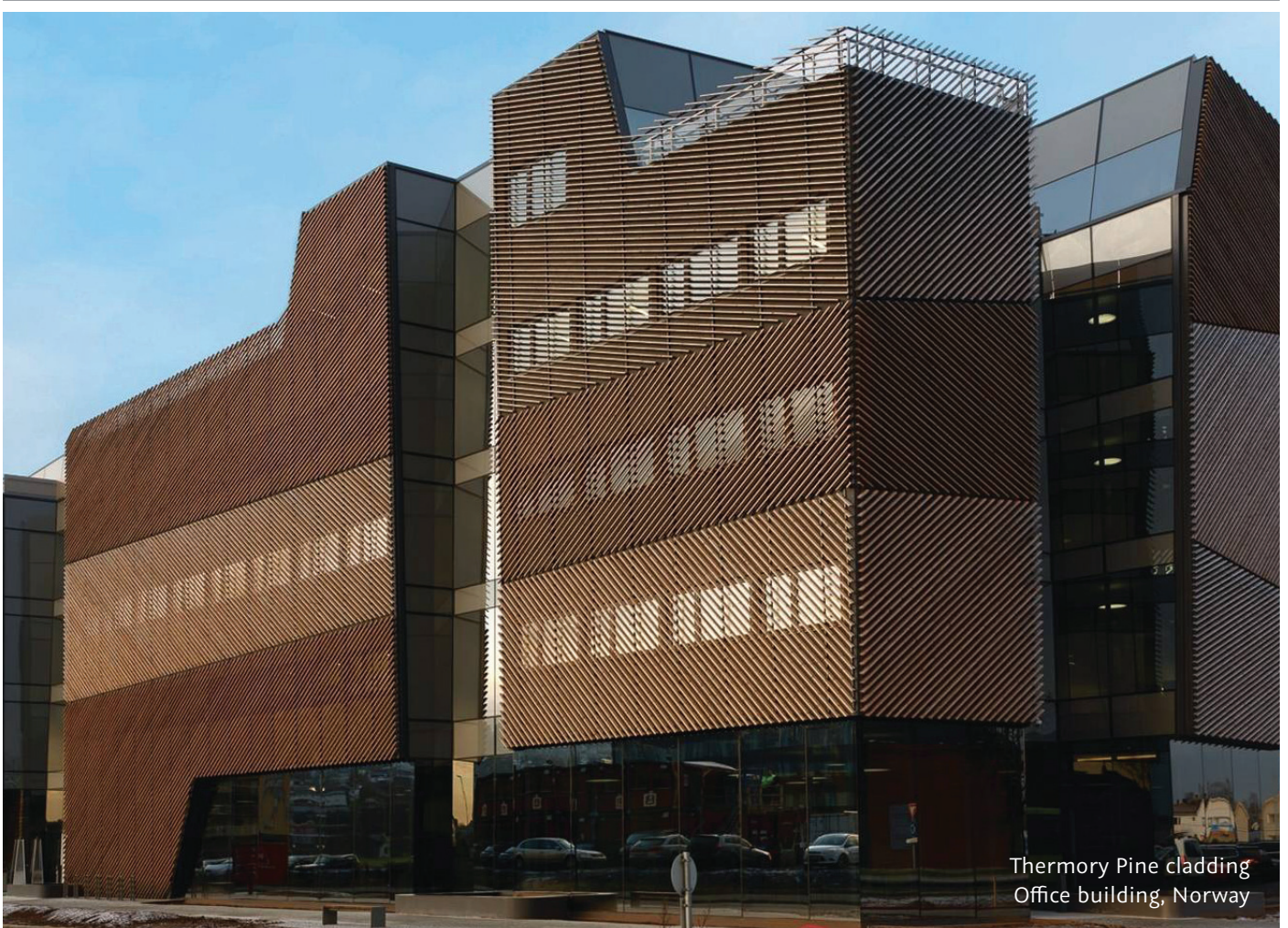
## THERMALLY MODIFIED PINE FOR OUTDOOR CLADDING

THERMORY® 2018

THERMORY® Pine is produced at 215°C 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 AS procures Scots Pine from Northern Europe, from region that takes care of the forest responsibly and sustainably.

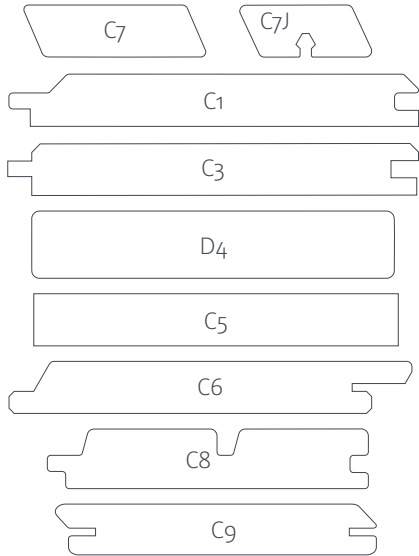


Thermory Pine cladding  
Office building, Norway

## Characteristics of thermally modified pine (sawn, planed and profiled):

<b>Wood species</b>	Scots Pine ( <i>Pinus Sylvestris</i> )
<b>Commonly used customs code</b>	4409101800
<b>Durability class</b>	2 - durable (EN113) Tested in Italy by Catas S.p.A (No.132647/1, 06-03-2012)
<b>Initial moisture content (%)</b>	4.0-6.0
<b>Equilibrium moisture content at 25°C, (%)*</b>	35%RH - 4.2 ; 65%RH - 5.9 ; 90%RH - 13.7
<b>Change in width if taken from RH 35% to RH 65% at 25°C*</b>	0.39%
<b>Bending strength (MPa)*</b>	17.41
<b>Modulus of elasticity (GPa)*</b>	3.44
<b>Oven-dry density (kg/m<sup>3</sup>)*</b>	415.5
<b>Resistance to indentation (N/mm<sup>2</sup>)*</b>	12.02
*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.	
<b>Country of origin</b>	Estonia
<b>Certification</b>	FSC®/PEFC® certified products - please check for available dimensions and profiles.
<b>Surface</b>	profiled (smooth or grooved)
<b>Color</b>	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 an UV resistant coating is applied and maintained.
<b>Coating</b>	Thermory AS applies no coating.
<b>Grading</b>	Three grades available: Natur, Rustic, Country. 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".
<b>Standard thicknesses</b>	20 mm, 26 mm and 42 mm (depending on profile). More information from file: "Thermory Profile Sheet".
<b>Standard widths</b>	42 - 140 mm (depending on profile). More information from file: "Thermory Profile Sheet".
<b>Standard lengths</b>	3.0 - 5.4 m (lengths are subject to availability).

**Characteristics of thermally modified pine (sawn, planed and profiled):**

<p><b>Standard profiles</b></p>	 <p>More information about wider profile selection available from file: "Thermory Profile Sheet".</p>
<p><b>Handling</b></p>	<p>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.</p> <p>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.</p>
<p><b>Fixing</b></p>	<p>Fixing with either clips or screws depending on the profile. Wood-to-wood contact should be avoided.</p> <p>More information from file: "Thermory Cladding Installation Guide".</p>
<p><b>Maintenance</b></p>	<p>Thermory® cladding does not require surface treatment. However, as with any wood, Thermory wood will naturally age to a grey over time. This process will start immediately and, depending on the amount of UV exposure, will take anywhere from several months to a year. This does not make the wood any less resistant to decay. Regular care and maintenance is recommended to make your cladding last longer. The Golden Brown color can be preserved by treating with UV resistant oil once a year.</p> <p>More information from file: "Thermory Cladding Installation Guide".</p>

Last updated: July 2018.  
All previous versions are null and void.