

The Best of Wood
Heat Treated Wood
ThermoWood® **HJT-Holz Oy**
thermowood.fi





Austria, Chalet Laudegg – Fine sawn ThermoWood spruce

Heat Treatment of Wood Since 1997

Are you looking for high-quality heat treated wood for indoor or outdoor use? The Finnish HJT-Holz Oy offers a solution to your needs. Extensive experience, patented production technology and the best raw material from trusted partners guarantee the quality of our products.

HJT-Holz Oy is a company specialized in the production and further processing of heat treated wood. We have 6 heat treatment facilities for wood and our own planing mill and surface treatment line. Our capacity is approx. 20,000 m³, and some 95% of our products are exported.

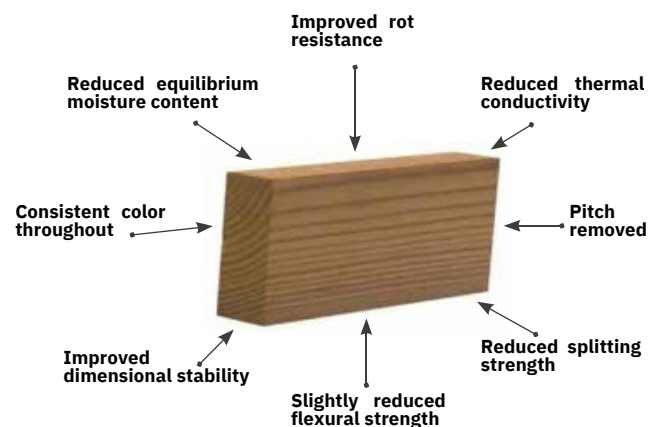
We have been a member of the Finnish ThermoWood Association since 2000, and we are entitled to use the association's ThermoWood® trademark. It means that we co-operate with the association in, for instance, quality control and research.

ThermoWood for Indoor and Outdoor Use

ThermoWood, or heat treated wood, is suitable for

many purposes. In the interior, it can be used in, e.g., walls, ceilings, floors, saunas, fittings, and furniture. On the exterior, it is suitable for use in, e.g., cladding, terraces, doors, and windows.

Qualities of ThermoWood®



Heat treatment improves both the qualities and the appearance of the wood. The beautiful brown color gives it a stylish, almost hardwood-like look. Often that alone is a good enough reason to choose ThermoWood.

Raw ThermoSpruce (*Picea Abies*)

ThermoSpruce D

ThermoSpruce is a cutting-edge wood material that redefines the standards for durability, aesthetics, and environmental sustainability in construction and design. Utilizing a specialized thermal modification process, it transforms high-quality spruce into a product that resists decay, moisture, and insect damage more effectively than traditional wood. This enhanced durability makes ThermoSpruce suitable for a wide array of applications, from exterior cladding to sophisticated interior designs.

Thanks to its advanced dimensional stability, ThermoSpruce minimizes expansion and contraction issues associated with changes in humidity. This stability, combined with its rich color palette that ranges from warm browns to elegant honey tones, adds a distinct natural elegance to any space. Its beauty is achieved naturally, without the use of harmful chemicals, maintaining the wood's integrity and appeal.

Emphasizing environmental sustainability, ThermoSpruce's thermal modification process is entirely chemical-free, employing only heat and steam. By choosing ThermoSpruce, you support sustainable forestry practices and contribute to a healthier planet.

This innovative wood material is available in a variety of dimensions, catering to the diverse needs of architects, builders, and designers, ensuring there's a ThermoSpruce solution for every project. You can find the available dimensions below. Upon request, we are able to do other dimensions too.

Note! We produce different lengths to order: We understand that significant projects require custom-made solutions. That's why we offer also the possibility to order special lengths between 800 and 2700 mm. **Normally lengths vary between 3000-5400 mm. Products marked with "X" are available in classes Thermo D and Thermo S.**

	Dim 2 (mm)	50	63,5	75	100	125	150	175	200	225	250
Dim 1 (mm)											
19				X							
22					X	X	X	X	X	X	X
25				X	X	X	X	X	X	X	X
32				X	X	X	X	X	X	X	X
38					X	X	X	X	X		
50		X		X	X	X	X	X	X	X	X
63			X			X	X	X	X	X	X
75					X	X	X	X	X	X	X
100					X	X	X	X	X	X	X

Raw ThermoPine (*Pinus Sylvestris*)

ThermoPine D

ThermoPine revolutionizes the use of wood in construction and design, marrying unparalleled durability with the timeless beauty of pine. Through an eco-friendly thermal modification process, ThermoPine enhances the natural properties of high-quality pine, increasing its resistance to decay, moisture, and insect damage. This makes ThermoPine an ideal choice for a wide range of indoor and outdoor applications, from decking and cladding to elegant interior finishes.

This innovative treatment not only boosts the wood's durability but also enhances its dimensional stability, significantly reducing the wood's natural tendency to expand and contract with changes in humidity. As a result, ThermoPine maintains its shape and beauty over time, featuring a stunningly rich color palette that ranges from deep amber to golden browns. This natural allure is achieved without the use of harmful chemicals, preserving both the wood's integrity and the environment.

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ThermoPine stands as a testament to sustainable building practices, with its thermal modification process utilizing only heat and steam, making it a completely chemical-free and environmentally friendly choice. By opting for ThermoPine, builders and designers not only contribute to healthier living spaces but also support sustainable forestry.

ThermoPine is available in various dimensions to suit diverse design needs, ensuring that this advanced wood material can be tailored to any project, blending innovation with the natural beauty of pine.

	Dim 2 (mm)	50	75	100	125	150	175	200
Dim 1 (mm)								
19				X				
22				X	X	X	X	
25			X	X	X	X	X	X
32			X	X	X	X	X	X
38				X	X	X		
50		X	X	X	X	X	X	X

Our Planed products



Cladding panel, Thermomodified spruce, Picea Abies, Thermo-S



Cladding panel, Thermomodified pine, Pinus Sylvestris, Thermo-D

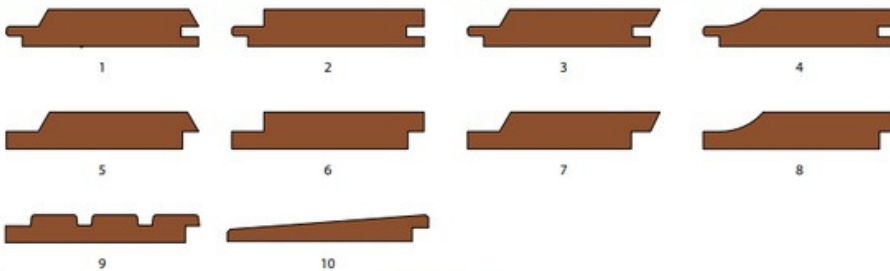


Batten, Pine, Pine Sylvestris, Thermo-D



Decking board (Pine, Pinus Sylvestris, Thermo-D)

Exterior cladding panels



Interior cladding panels



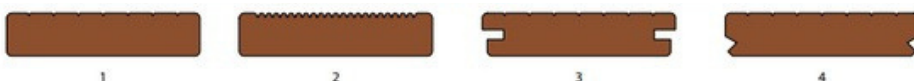
Floorboards



Boards, planks, battens



Decking boards



Greetings from HJT-Holz Oy moulding

HJT-Holz introduces a captivating fusion of nature and innovation with its molded thermowood products. A symphony of craftsmanship and sustainability, these pieces redefine style. Using a proprietary thermowood process, HJT-Holz combines durability with environmental responsibility. From chic furniture to architectural elements, each creation tells a tale of timeless elegance and modern eco-conscious living. Welcome to a world where wooden artistry meets sustainable design.



Austria, Private house – Planed Thermowood pine

Natural Protection Without Chemicals

Heat treating wood is a natural way of protecting it. It improves its rot, weather and thermal resistance, and reduces the movement of wood due to moisture. No chemicals are used in the treatment, since it is based on high temperature and water vapor.



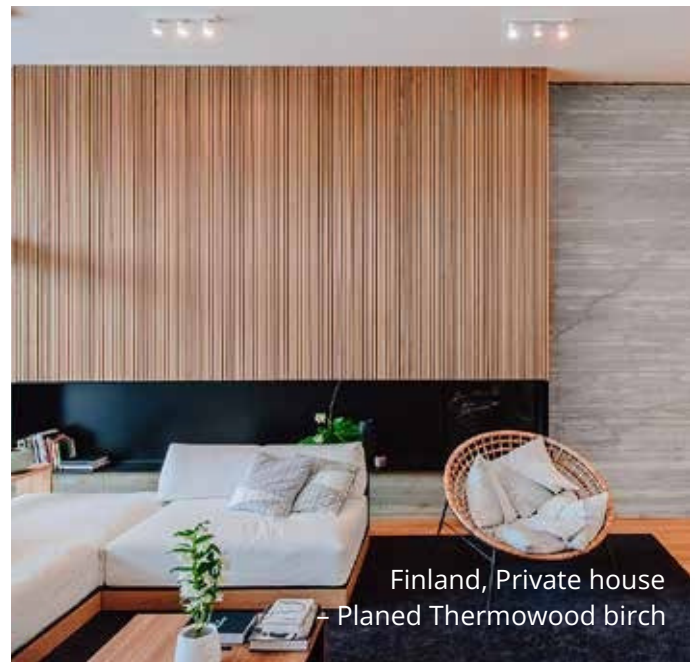
During the heat treatment, the temperature of the wood is first increased to over 160 °C, and then decreased back to the normal temperature. The treatment lasts from 1.5 to 3 days, and it is regulated with the help of hot air and water vapor. The structure of the wood changes as water and extractives, such as pitch (terpenes), are removed from it.

Uncompromising Quality and Environmental Excellence

Taking both quality and the environment into consideration is a matter of honor for us. It applies to all that we do. We are committed to following the principles of economically, ecologically and socially sustainable forestry. We comply with legislation and other regulatory requirements, and we also expect our contractual partners to do the same. It is of

paramount importance to us that we know the origin of the lumber we acquire.

Our company has been granted the SKH-PEFC-COC-5217 certificate. The certificate attests that the management of the origin of the wood has been assessed and follows the international PEFC standard PEFC ST 2002:2013. The certificate covers lumber acquisitions, sales, data systems, internal control and files. On the basis of the certificate, the Finnish Forest Certification Council has granted us the right to use the PEFC mark.



Finland, Private house – Planed Thermowood birch





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