



THERMOWOOD®

PROTECTED BY NATURE





THERMOWOOD®

IMPORTED AND MARKETING TO THE UK BY



NHG Timber Ltd.

4 Eagle House, Cranleigh Close
Sanderstead, Surrey
CR2 9LH, United Kingdom

Contact us

44(0)20 8651 4030
sales@nhgtimber.co.uk

LDCWOOD®

Innovative Belgian ThermoWood® producer & member of the International ThermoWood® Association.

Protected by nature

Our philosophy
The story behind the bird and the rhino
The story behind LDCwood® ThermoWood®

Embracing sustainable building solutions

The rise of sustainable building solutions
Building with #WoodisGood
History & evolution of ThermoWood®

3 pillars

Origin of our wood
Process
Designs that leave a mark

Collection

Alke
Lagom
Sianiq

Applications

Cladding
Decking
Interior
Outdoor

Solutions

Finishes
Fire retardant treatment
Rough sawn
Custom solutions

Placement & installation

Tongue-and-groove end joints
Nails and screws
Grad® and B-Fix
Maintenance

Contact



PROTECTED BY NATURE





OUR PHILOSOPHY

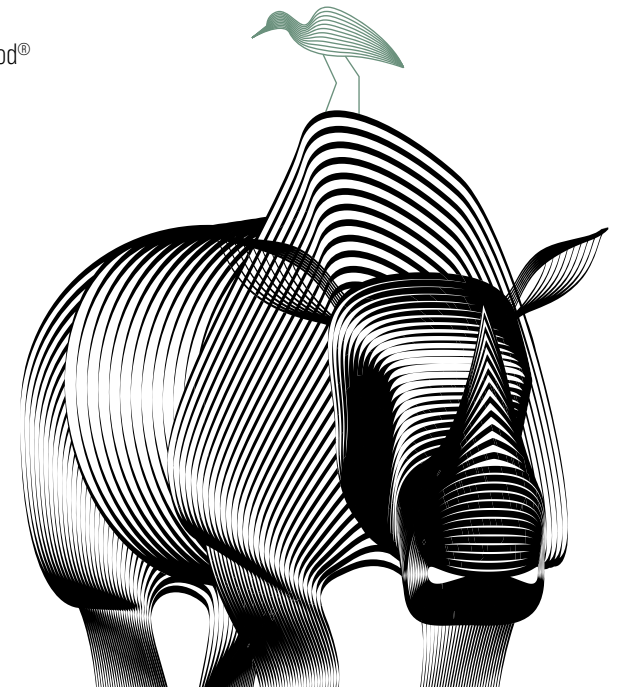
When you use LDCwood® ThermoWood®, you contribute to protecting nature. You are supporting sustainable forest management and choosing a building material with a low carbon footprint.

But even more, just as LDCwood® ThermoWood® protects nature, nature protects us. Whatever the weather conditions, LDCwood® ThermoWood® offers long-term protection from the elements, and demonstrates incredibly high durability. As such, one could say that nature acts as a guardian for our way of life.

THE STORY BEHIND THE BIRD AND THE RHINO

High in the sky, with a literal bird's eye view, the cattle egret keeps watch. As hunters approach, the bird warns the rhinoceros. In return the rhino provides his beloved protector with food. A relationship based on mutual interest and appreciation for one another's skill set.

This same symbiotic relationship is created with LDCwood® ThermoWood®'s sustainable durable wood products.





LDCWOOD IS PART OF **LEMAHIEU GROUP**

Thanks to its multi-faceted and complementary divisions in processing, preservation and fire retardant treatment of wood and panels, Lemahieu Group has long developed relationships with many European companies in the wood industry.

Lemahieu Group houses LDCwood® ThermoWood®'s production in its facility in Ostend, Belgium. This location features 6 Jartek ThermoWood® kilns, numerous Weinig moulders, resaws, multirips, vacuum wrapping and a complete tooling room for made to order patterns and products.



Lemahieu Group

- is very experienced in the import of timber and panels and the machining and preservation of wood.
- sources pine, Nordic spruce, ash, poplar, oak and more.
- is a guarantee on a smooth roll-out through efficient logistics.
- prioritizes sustainability, both on paper and in practice.
- is compliant with FSC®, PEFC and European Timber Regulations (EUTR).

www.lemahieu.be

A low-angle, upward-looking photograph of a modern building's exterior. The building features a combination of light-colored vertical wood slats and large glass panels. The glass reflects the sky and shows some interior structure. The lines of the building create a strong sense of upward movement and depth. The sky is a clear, pale blue.

EMBRACING SUSTAINABLE BUILDING SOLUTIONS



THE RISE OF SUSTAINABLE BUILDING SOLUTIONS

Supply challenges

Long-term viability of durable tropical species is in question due to increasing costs, scarcity and their arguable sustainability.

Sustainability is the way to go

By becoming more aware of sustainable solutions, we can and want to increase our impact on the world's resources.

Adoption of mass timber

Low impact and quality construction is the way of the future.

Product innovations

With the entry of timber product innovations such as ThermoWood® the application of timber as a construction material is growing.

Photo: LDCwood® ThermoWood® pine - Thermo-D



BUILDING WITH #WOODISGOOD

From tree to treasure: 5 reasons to love thermally modified wood

When you design and build, you intend to make an impact on the environment, not on nature. By choosing thermally modified wood over less sustainable materials, a design retains the **freedom** one craves as a creative spirit without compromising on performance or **carbon footprint**.



Low maintenance

- **Easy to maintain**

ThermoWood® requires next to no maintenance.

- **Durable**

Since ThermoWood® has a low moisture content, it is resistant to rot and insects. It benefits from a long life expectancy thanks to increased hardness levels.

- **Ageing with dignity**

Without further finishing, ThermoWood® turns beautifully silver-grey over time.



The rise of sustainability

- **Natural is key**

ThermoWood® is 100% natural, free from resins and chemicals. The modification increases the durability class. LDCwood® uses collected rainwater for its process.

- **Rising awareness**

Both architects and developers understand the need for the construction industry to contribute to a better climate.

- **Durably climate-resistant**

Thermally modified wood is chosen thanks to its extreme performance and sustainability compared to alternative materials.



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Low carbon footprint

- **Sustainable forest management**

Through sustainably managed forests, natural resources are extracted and optimized in an ecologically responsible manner.

- **Low impact**

The use of wood reduces ecological footprint.

- **Long lifespan**

Facade cladding with ThermoWood® can reach a lifespan of over 25 years. [EN 350-1]



The planet's well-being

- **Renewable building material**

Wood is an all-natural, biodegradable and recyclable material.

- **CO₂ containment**

Wood absorbs CO₂ from the atmosphere.

- **Insulation**

To protect our planet, energy-neutral constructions are becoming the norm. Wood lends itself perfectly thanks to its highly insulating properties. ThermoWood®'s thermal conductivity is up to 20-25% lower than unmodified wood.



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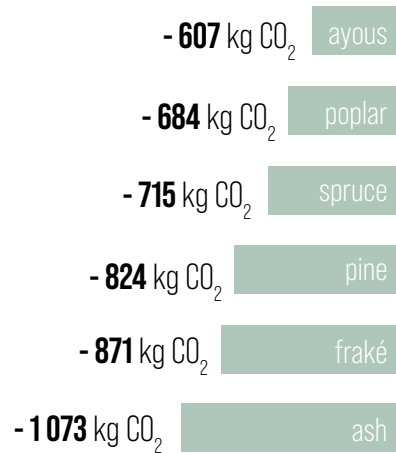
Energy efficient

The production and processing of wood is very energy efficient. Wood requires 30% less energy than other raw materials when processed for construction and interior applications.

In addition, trees remove CO₂ from the atmosphere. The carbon stored by the tree is retained for life in ThermoWood®.

Photo: LDCwood® ThermoWood® pine - Thermo-D

- Carbon-storing



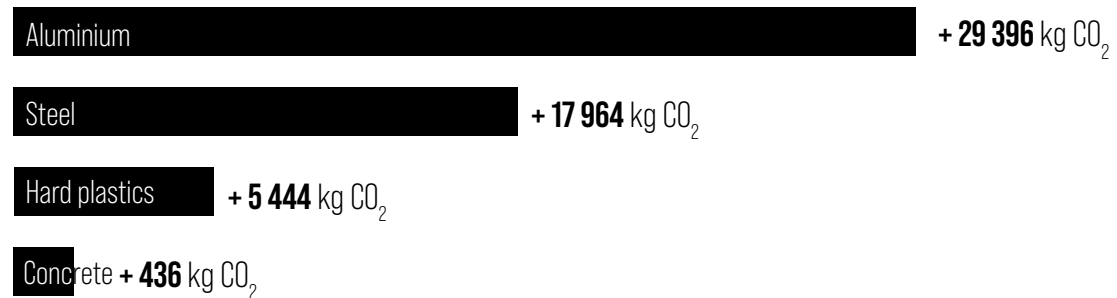
Net carbon emissions per m³ of material

The net carbon emission value represents the relationship between man-made greenhouse gas emissions caused by the production of a product, and the natural and artificial sinks that prevent CO₂ from entering the atmosphere.

Calculations based on 1m³ of wood.

Source: www.opslagco2inhout.nl - www.houtgeeftzuurstof.be

Carbon-emitting +





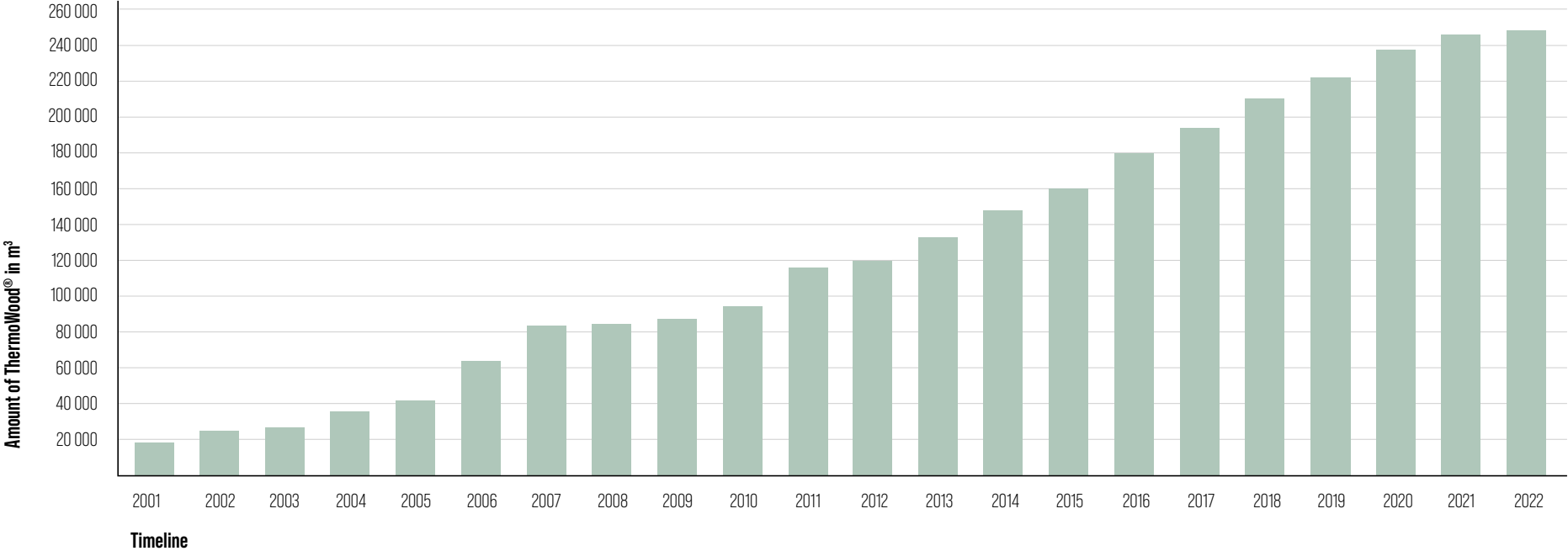
HISTORY & EVOLUTION OF THERMOWOOD®

The thermal modification of wood popped up in the early 20th century when a scientific study showed how thermal modification improved the qualities of timber and enhanced its resistance to moisture.

ThermoWood® is a brand of the International ThermoWood® Association and its production volumes are increasing steadily. The range of thermally modified timber's applications has expanded rapidly to cover cladding and interior design products, patio and garden construction and the carpentry industry. As of 2022, almost 250,000 m³ is produced annually from ThermoWood® facilities alone!

- **1900s:** original scientific study of thermal modification of wood
- **1980s:** first commercial thermal modification facility is built in Germany
- **1993:** development of the industrial-scale ThermoWood® process for improving the properties of timber
- **2022:** Nearly 250,000 m³ produced annually

The growth of ThermoWood® production
between 2001 and 2022



Source: The ThermoWood® Handbook

A landscape photograph featuring three large, dark pine trees silhouetted against a bright, hazy sunset sky. The sun is positioned behind the central tree, creating a strong backlight effect. The trees stand on a grassy, sloping hill. In the background, a body of water and distant, hazy hills are visible. The overall color palette is dominated by warm oranges, yellows, and soft blues.

3 PILLARS



At LDCwood®, we are serious about our responsibility to our planet. This belief is based on three pillars: roots, process and creation. By very consciously meeting each of them, we provide a sustainable and durable building material today, for a better quality of life tomorrow.



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1. ROOTS

Origin of our wood



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1. ROOTS

Origin of our wood

2. PROCESS

Sustainability through our process



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1. ROOTS

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Sustainability through our process

3. CREATION

Designs that leave a mark



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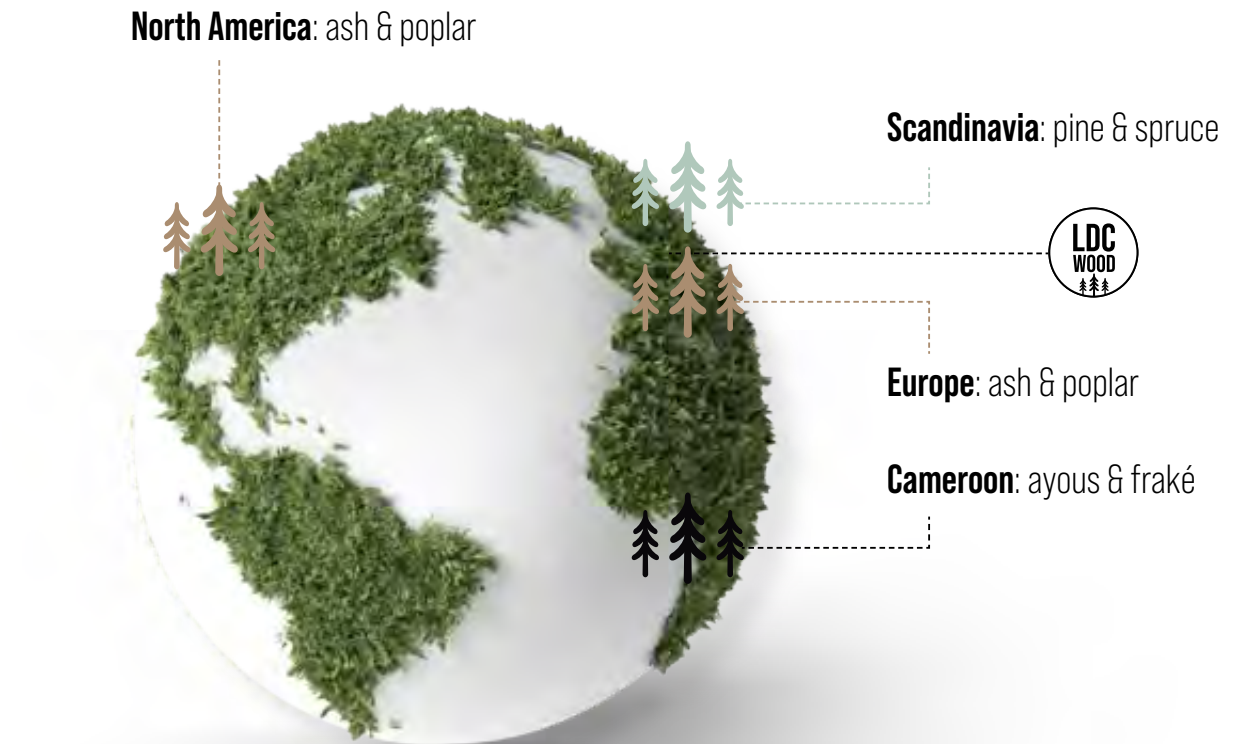
3. CREATION

Designs that leave a mark

An aerial photograph of a lush, green forest. A winding river or stream flows through the center of the image, surrounded by dense, vibrant green trees. The text "ORIGIN OF OUR WOOD" is overlaid in the center in a bold, white, sans-serif font.

ORIGIN OF OUR WOOD

ORIGIN OF OUR WOOD



CAMEROON

Decolvenaere is **OLB certified**, which guarantees full traceability of the origin of wood, sustainable forest management and 100% legal and verified sourcing of hardwoods such as ayous and fraké from their own Cameroonian tenure.

The highest requirement is **traceability**. Each tree must have its own ID stating the height and width of the tree. GPS coordinates have to be assigned to every tree, which are then indicated on a map. All of this leads up to infallible traceability of each cut tree.

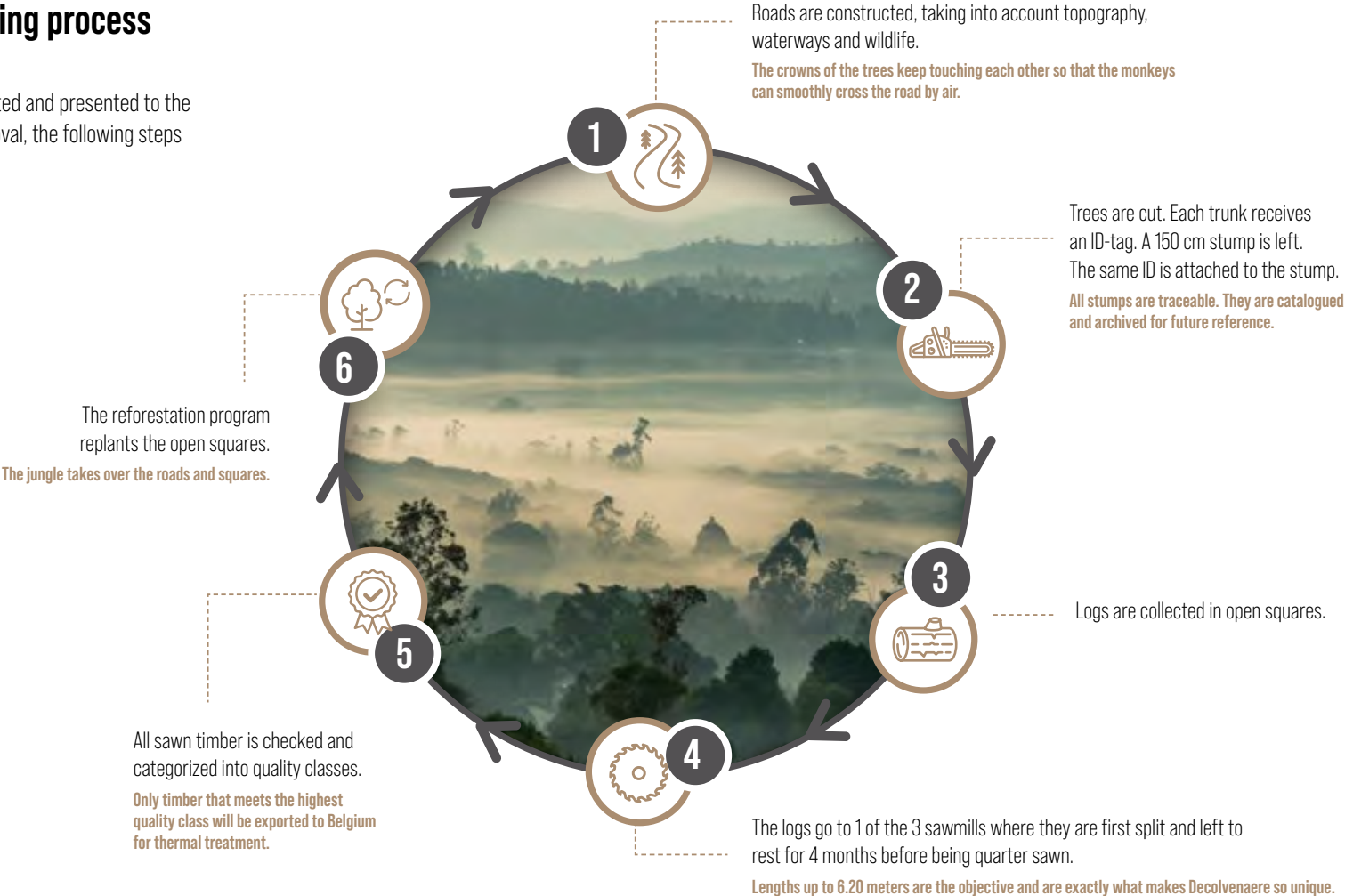


OLB is a licenced European system for verifying the legality of wood.



Cameroonian sourcing process

Which trees will be cut is stipulated and presented to the OLB board each year. After approval, the following steps need to be carefully carried out:



Dedicated team

The three sawmills are close to the rural communities. To facilitate easy access, education, healthcare and well-being, Decolvenaere provides housing, schools, hospitals, food supply, sports facilities and furniture manufacturers for the more than 800 workers and their families. In total, Decolvenaere houses over 4,000 people.

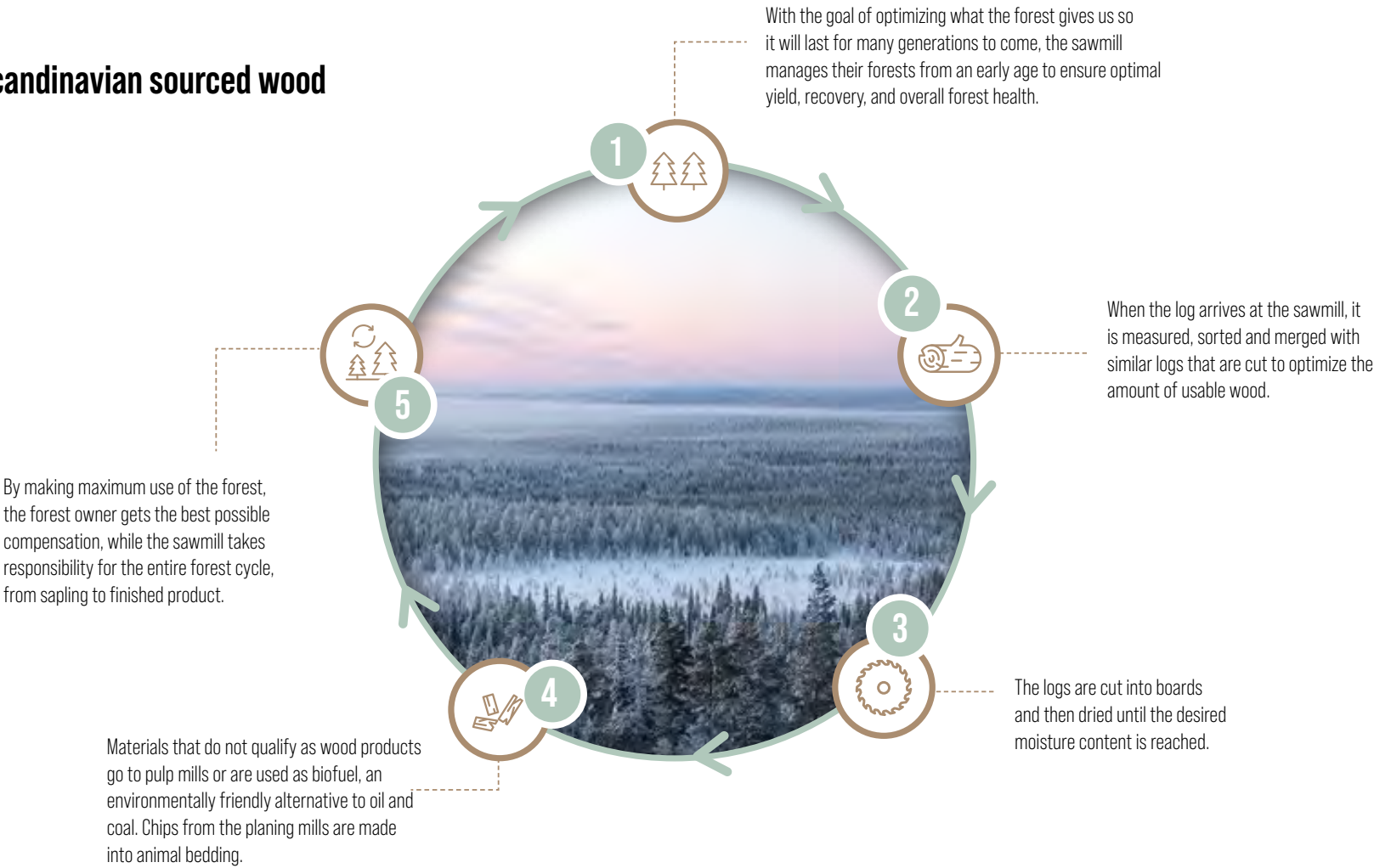


SCANDINAVIA

Preserving our planet begins with preserving our forests. Forests play a crucial role in the environment, in people's lives and in the global economy. Preserving our planet's forests is essential to global efforts to reduce poverty, address water scarcity and biodiversity loss, and mitigate climate change. Our spruce and pine partners are therefore all FSC® or PEFC certified.



Scandinavian sourced wood

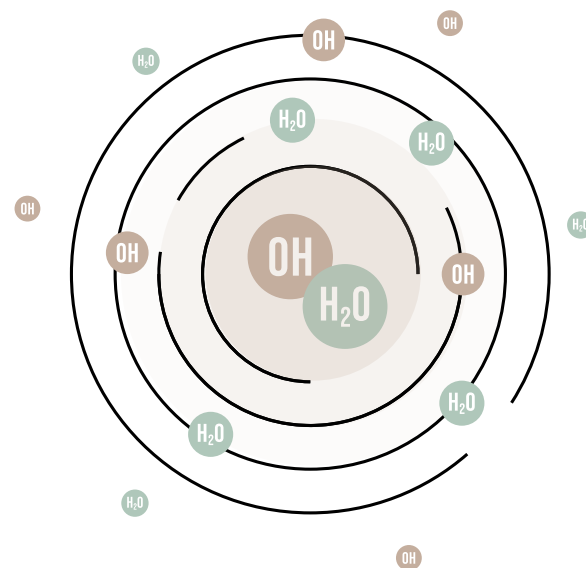
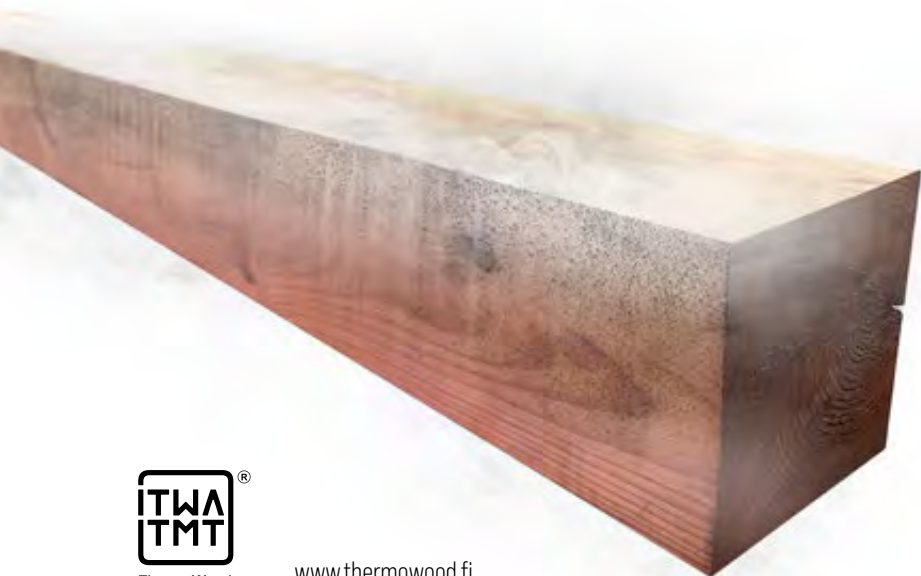




THERMO-D TREATMENT OF EVERY FIBER

What is ThermoWood®?

ThermoWood® is a patented brand created by the International ThermoWood® Association. It specifies the natural preservation process to transform wood into a durable product. Through every fiber, the durability class improves from IV or III up to I which implies a lifespan of over 25 years for class I. (EN 350-1)



Consistent quality due to standardized treatment

As a member of the International ThermoWood® Association, our standardized process is identical to the Finnish process, which sets the gold standard of all thermal treatments. Twice a year, we are audited by a Notified Body to maintain a high quality.



www.thermowood.fi

ThermoWood® process in 3 phases

PHASE 1

Timber dries and moisture content decreases.

- High-temperature drying: 100-212°C (212-413,6°F)
- Moisture level: 20% -> 2%



PHASE 2

Kiln is kept at a steady temperature to modify the wood.

- Thermal modification: 212°C (413,6°F)
- Moisture level: 2%



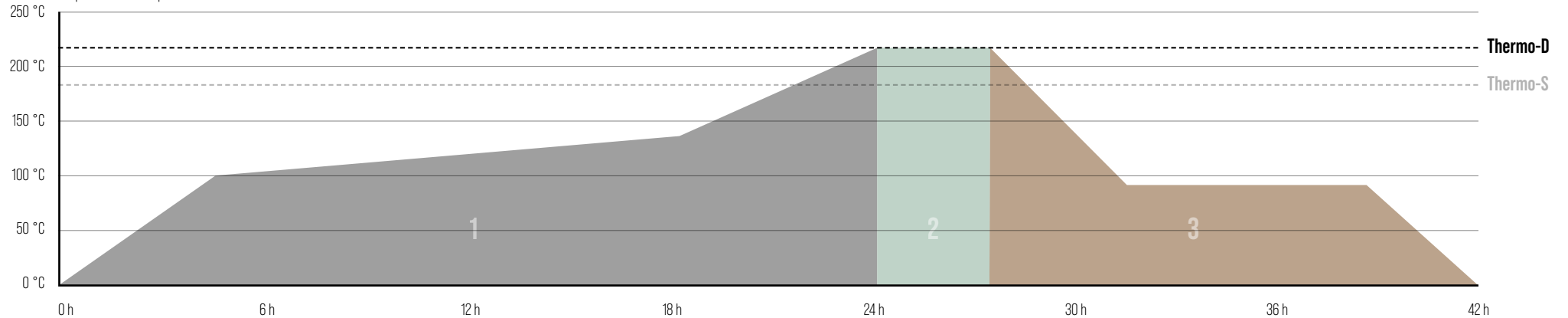
PHASE 3

Temperature is lowered and the moisture content is increased with steam and water.

- Conditioning/cooling
- Moisture level: 2% -> 4-7%



Graph: modification process for Nordic softwood 32 mm





THE THERMOWOOD® PROCESS, A PART OF

Our firm's DNA

LDCwood® ThermoWood® is the result of connecting two concepts, with the thoughtful sourcing of our wood on the one hand, and the efficient preservation of it on the other. This is where we perfectly align our logistical strength with the advanced technology behind our 6 kilns.

Our operators' minds

Our philosophy is to let the wood direct the process, not the process direct the wood. Our Thermo Technicians, like the world's most accomplished bakers, take on their job with the utmost attention to detail to achieve the perfect finished product, everytime.

Our commitment

At LDCwood® ThermoWood®, we want to use the ThermoWood® process to create beautiful, sustainable products which keep the world in shape, for generations to come.

DURABILITY CLASS

When exposed to weather without surface treatment, ThermoWood® products remain significantly drier than unmodified timber. In warm and humid climates, it is recommended to surface treat against humidity, erosion, and UV radiation.

In conclusion, Thermo-D ThermoWood® survives even the most extreme weather conditions.

LDCwood® products are all Thermo-D, the most durable ThermoWood® with resistance to decay and weather.



THERMOWOOD®

Durability Class (EN 350-1)	Use Class (EN 335-1)	Examples of applications	Products
1 Very durable	3 Outdoors, exposed to weather	Outdoor cladding Garden structures	Thermo-D ayous, pine
2 Durable	3 Outdoors, exposed to weather	Outdoor cladding Garden structures	Thermo-D spruce Thermo-D ash, fraké
3 Moderately durable	2 Outdoors, under roof	Sauna structures Outdoor structures and furniture under roof	Thermo-S pine, spruce Thermo-S hardwood Thermo-D hardwood
4 Less durable	1 Indoors in dry conditions	Interior cladding	
5 Not durable	1 Indoors in dry conditions	Interior cladding	

DESIGNS THAT LEAVE A MARK





AG Campus

Brussels, Belgium

- LDCwood® ThermoWood® pine
- Thermo-D

Treated with fire retardant, Burnblock®,
to the desired reaction to fire class.
(B-s1,d0)

Architect:
EVR Architects



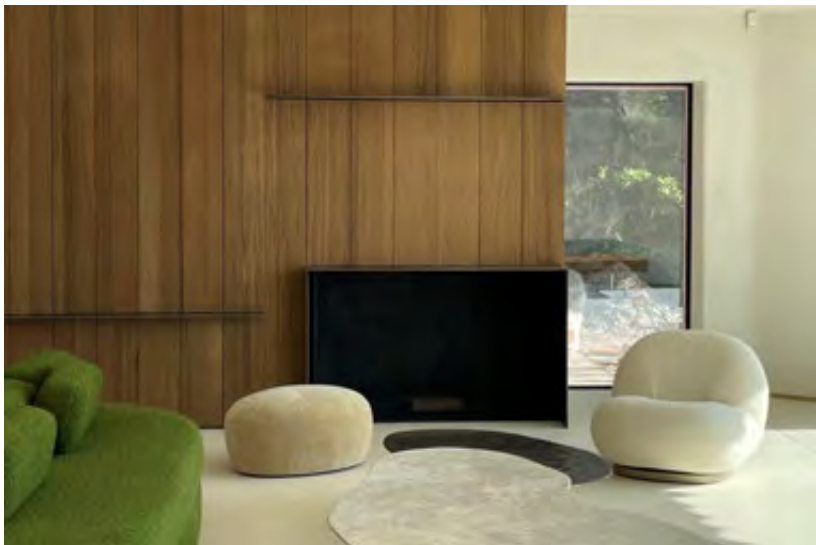
Benoît Viaene

- LDCwood® ThermoWood® fraké
- Thermo-D

Architect:

Benoît Viaene





Benoît Viaene

- LDCwood® ThermoWood® fraké
- Thermo-D

Architect:
Benoît Viaene



Dockside Garden

Ghent, Belgium

- LDCwood® ThermoWood® ayous
- Thermo-D

Treated with fire retardant, Burnblock®,
to the desired reaction to fire class.
(B-s1,d0)

Architect:

Bontinck



Shuttle parking

Aalst, Belgium

- LDCwood® ThermoWood® spruce
- Thermo-D

Treated with fire retardant, Burnblock®, to the desired reaction to fire class. (B-s2,d0)

Planed and machined on CNC ROBOT-Drive.

Architect:

HUB Architecture BVBA





Gantoise Hockey

Ghent, Belgium

- LDCwood® ThermoWood® pine
- Thermo-D

Treated with fire retardant, Burnblock®, to the desired reaction to fire class. (B-s2,d0)

Planned

Architect:

Servaas Vertongen





Maria Assumpta

Dilbeek, Belgium

- LDCwood® ThermoWood® ayous
- Thermo-D

Treated with fire retardant, Burnblock®,
to the desired reaction to fire class.
(B-s1,d0)

Architect:

Laurijssens architect



Visitor Centre A. Vogel

't Harde, The Netherlands

- LDCwood® ThermoWood® fraké
- Thermo-D

Architect:

Johan Hofman





**Buitenpoli
Reinier de Graaf**
Voorburg, The Netherlands

- LDCwood® ThermoWood® fraké
- Thermo-D

Architect:
EGM Architecten



Oasis Residential Project

Wenduine, Belgium

- LDCwood® ThermoWood® ayous
- Thermo-D

Treated with fire retardant, Burnblock®,
to the desired reaction to fire class.
(B-s1,d0)

Planned

Built by:
Jokkebrok



Repeto Steel

Galeries Lafayette
Champs-Élysées, Paris, France

- LDCwood® ThermoWood® fraké
- Thermo-D

© Heerenhuis (www.heerenhuis.be)

Design by:

Heerenhuis



Residential houses

Roeselare, Belgium

- LDCwood® ThermoWood® ayous
- Thermo-D

Built by:

Imroder





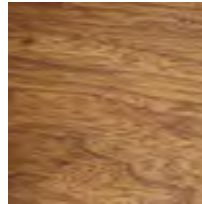
COLLECTIONS

ALKE COLLECTION

Mother of Mankind

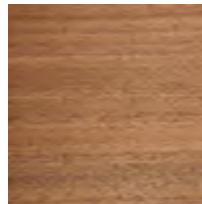
Alke, an ancient name for the African continent which literally means 'Mother of Mankind', represents the relationship between man and nature. With LDCwood®, under Alke we categorize the species of wood that originate from the continent, particularly fraké (Limba) and ayous (Abachi). Our Alke collection is all virtually clear of knots and quarter sawn to yield 100% vertical grain cuttings.

- **Durability class I-II**
- **Rot resistant**
- **Dimensionally stable**
- **Earth-friendly**



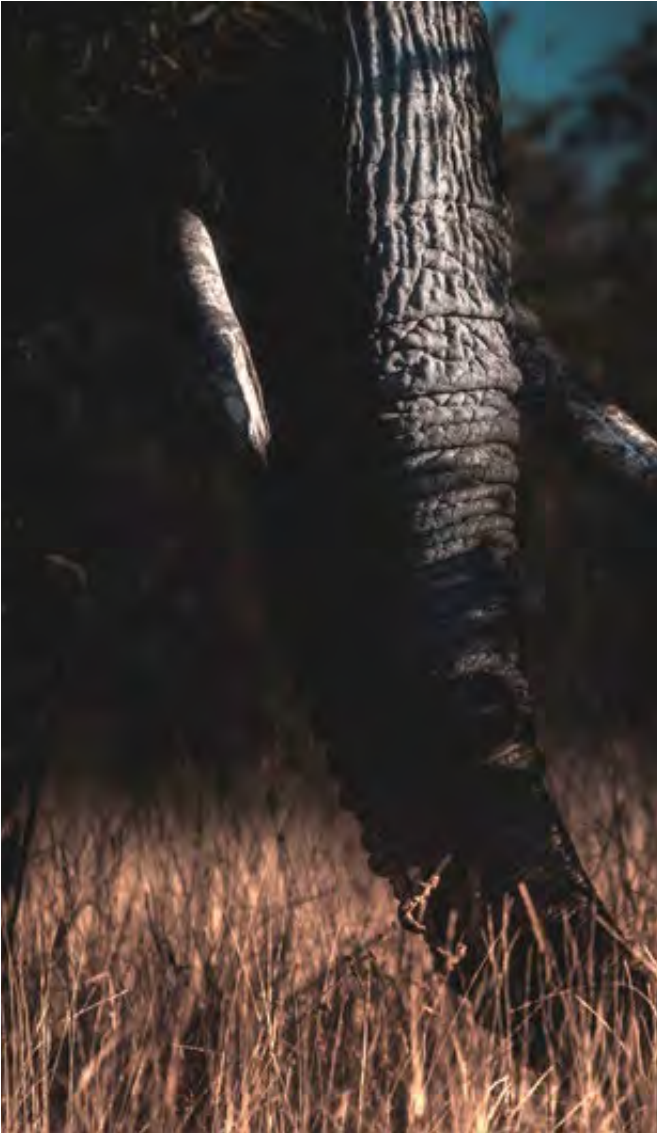
Fraké

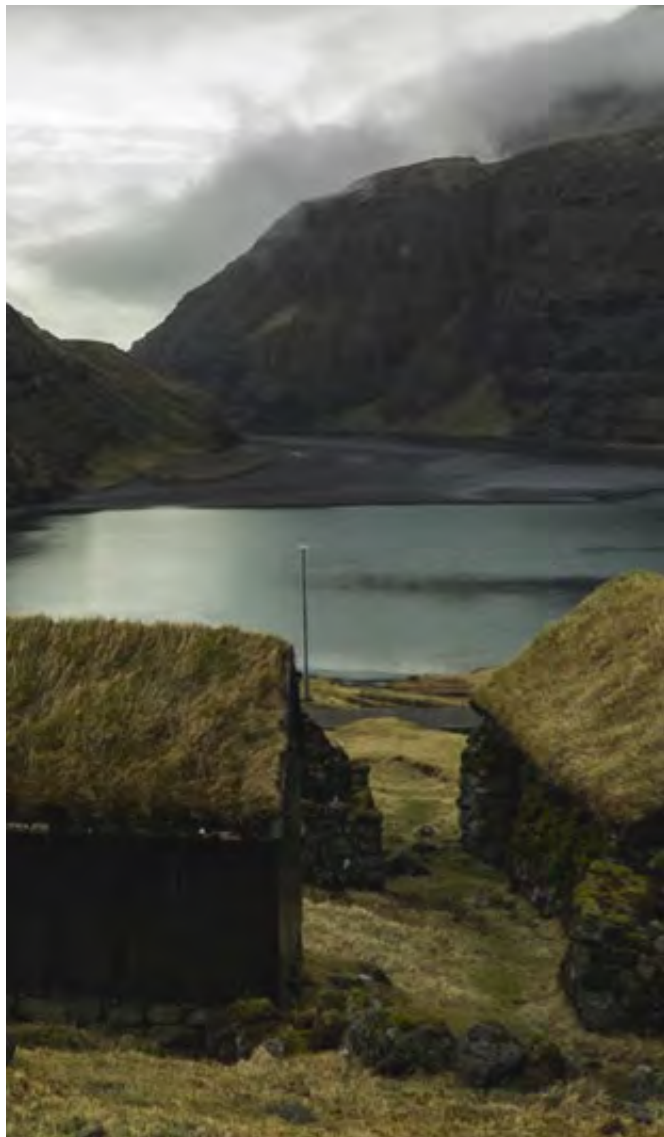
Whereas untreated fraké is more likely to be light yellow to dark brown, thermally modified fraké takes on a warm, nutty colour. The robust colour combined with the typical lines make fraké planks very eye-catching as facade cladding and perfect for enthusiasts of distinctive wood. Fraké has a Janka hardness of 640.



Ayous

Although similar as facade cladding to fraké, ayous has a slightly more regular and rustic character. Ayous has a Janka hardness of 430 and would be closest compared to clear Western Red Cedar for appearance, density and workability.



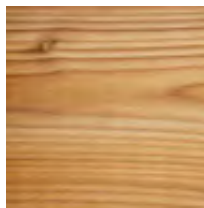


LAGOM COLLECTION

Exactly the right amount

Lagom is derived from the Viking expression 'laget om', meaning 'a round to the group'. Nowadays, the Swedish word represents balance, in every aspect of life. LDCwood® ThermoWood® hopes to transfer this balance to modern architecture through thermally treated pine and spruce originated from Scandinavia.

- **Durability class I-II**
- **Rot resistant**
- **Dimensionally stable**
- **Earth-friendly**



Pine

Pine comes in numerous varieties (up to 125 types in the world!), which can be roughly divided into red pine, white pine and yellow pine. At LDCwood®, we primarily focus on the treatment of Scandinavian Red pine. This variety can be recognised by the pinkish lines that run through the wood. This means that there are lighter and more darker lines in the wood, which bring a lot of personality to the wood, even after thermal treatment.



Spruce

Scandinavian spruce is a high-quality woodtype characterized by its light colour, thin grain and slow growth. Although spruce is naturally susceptible to blue mold, wood rot and damage by insects, the ThermoWood® treatment puts an end to this completely. The result is a durable wood product, with well-integrated small knots, that is easy to work with.

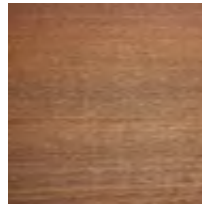


SIANIQ COLLECTION

Big piece of wood in the bottom of a kayak

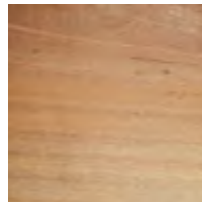
Sianiq refers not only to the large, often waterlogged piece of wood at the bottom of a kayak, given by the inhabitants of Inukjuak (an Inuit community in the Hudson Bay), but simultaneously to 'Inuuqatigiitsiani', the Inuit word used to describe the quality of relationships between persons sharing a place. With the type of wood we catalog under Sianiq, naturally modified through water and heat, we want to show our commitment to the place we all share: earth.

- **Dimensionally stable**
- **Earth-friendly**
- **Rot resistant**



Ash

Ash in general is quite strong and due to its higher density, it possesses excellent stiffness, hardness and good resistance to impact; properties that are only further enhanced by heat treatment. Not only is the treated ash excellent to work with, it also has a distinctive grain, character and colour.



Poplar

Poplar is a medium-density wood that is characterized by its straight grain and a uniform texture that allows a high-quality finish on furniture, for example. The wood, especially in its preserved version, comes with excellent value for money, and excels, among other things, by excellent dimensional stability.



APPLICATIONS



Cladding



Decking



Interior



Outdoor

CLADDING

Aesthetics, lifespan and low maintenance costs are paramount when it comes to choosing the right cladding. LDCwood® ThermoWood® is durable, resistant to moisture and dimensionally stable, which makes it the perfect cladding material.

- Design freedom
- Durable
- Rot resistant
- Low maintenance
- Optional certified fire retardant treatment up to B-s1,d0

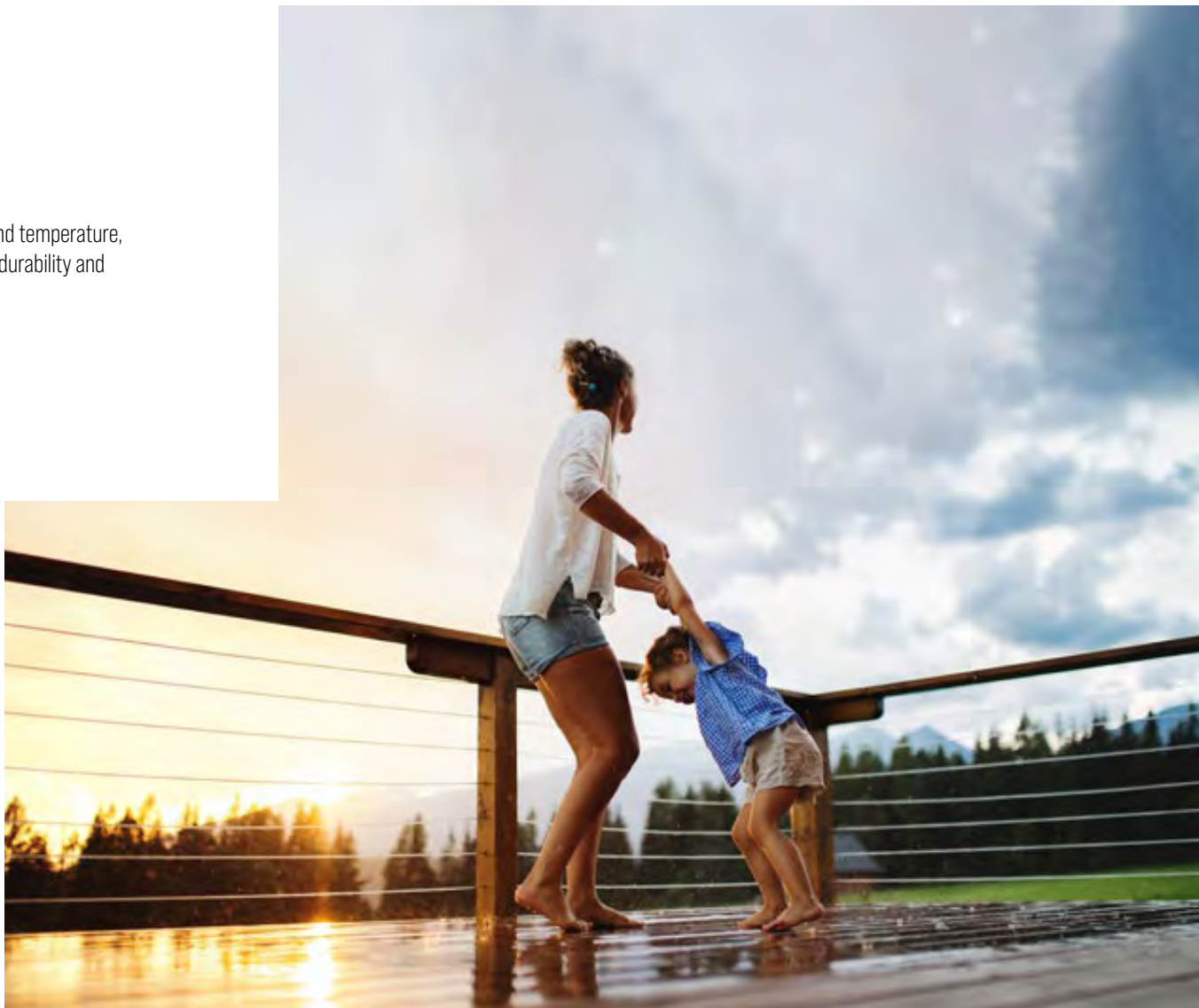
Photo: LDCwood® ThermoWood® ayous · Thermo-D



DECKING

Decking should not only withstand every weather condition and temperature, it also needs to be able to withstand heavy use. Thanks to its durability and stability, LDCwood® ThermoWood® is ideal for decking.

- Durable
- Rot resistant
- Dimensionally stable
- Low maintenance
- Easy-click installation systems



INTERIOR

For interior applications, thermally modified wood is a joy to work with. The stability is stunning, and it won't warp. LDCwood® ThermoWood® stays flat after planing, and doesn't shrink after installation. The wood sands well, and feels like polished leather after sanding.

- Well-being
- Signature creations
- Accent walls
- Sauna-proof
- Optional certified fire retardant treatment up to B-s1,d0

Photo: LDCwood® ThermoWood® fraké · Thermo-D

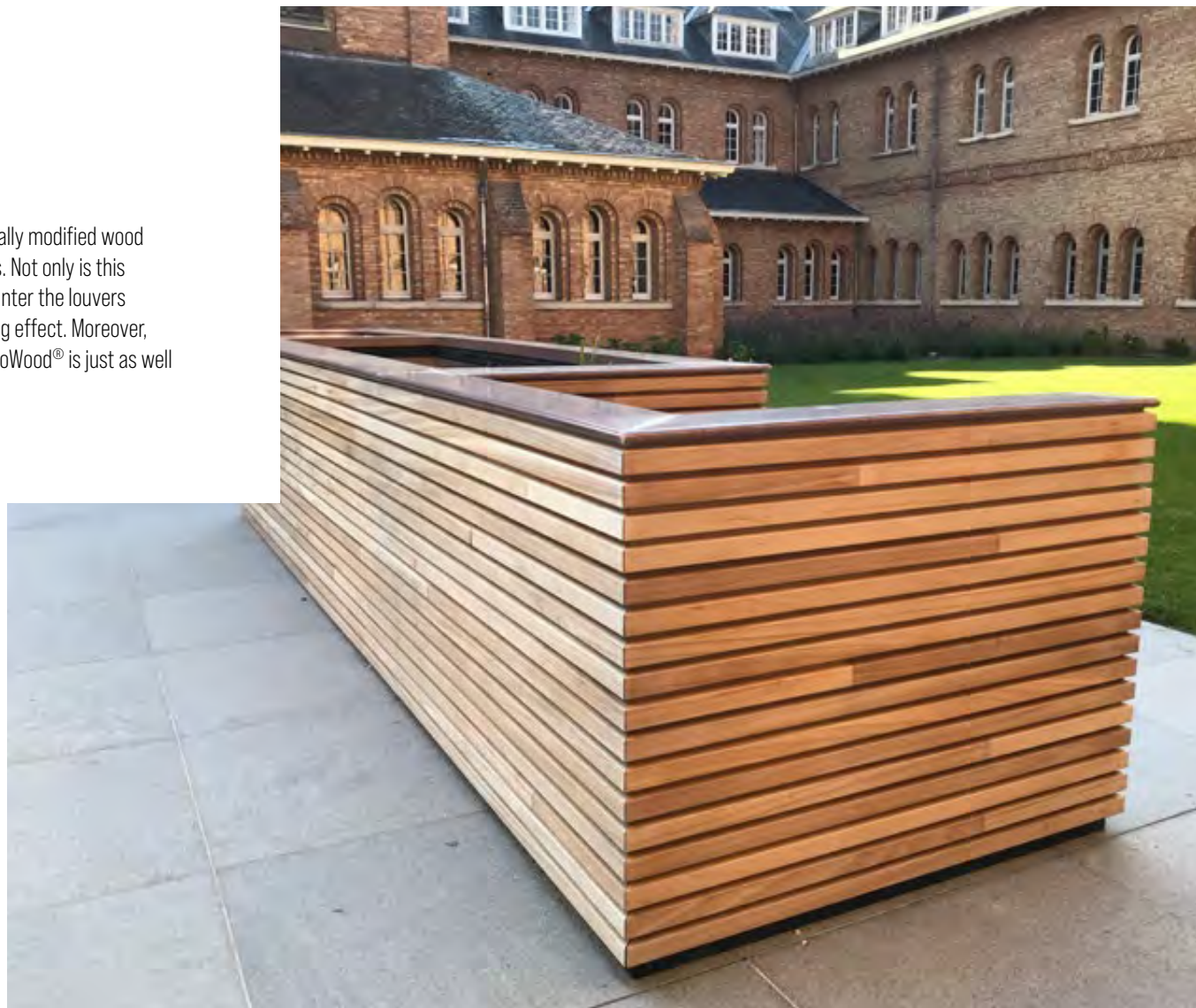


OUTDOOR

In addition to facade cladding, decking and indoor use, thermally modified wood also lends itself well to being used as stylish outdoor shutters. Not only is this an aesthetic way to keep out the sun in the summer, in the winter the louvers effectively capture small pockets of air, providing an insulating effect. Moreover, given its high resistance to rot and insects, LDCwood® ThermoWood® is just as well suited for outdoor furniture!

- Durable
- Rot resistant
- Dimensionally stable
- Low maintenance
- Signature creations

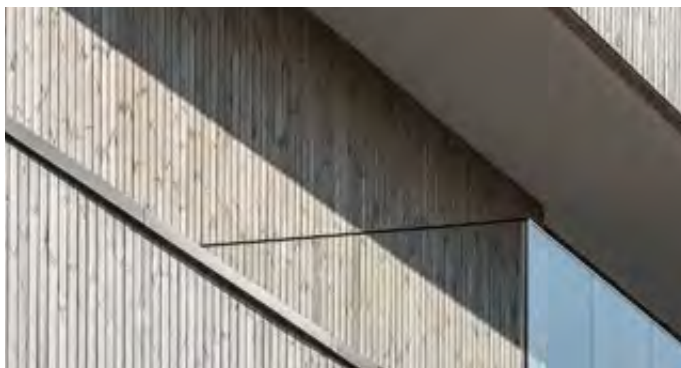
Photo: LDCwood® ThermoWood® ayous · Thermo-D
(Priory of O-L-V of Betanië, Loppem, Belgium)



SOLUTIONS



FINISHES



Pre-grayed

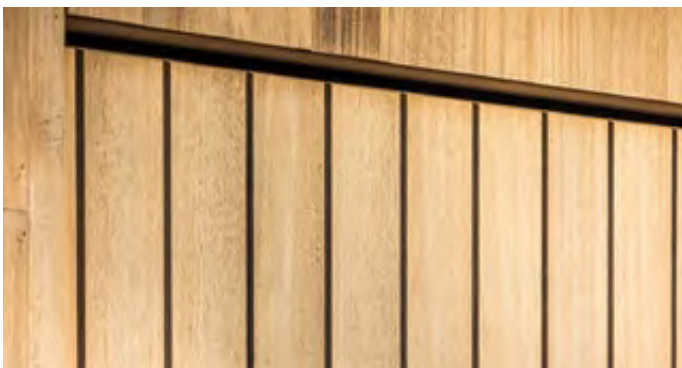
Pre-graying is used to mimic the natural graying process of wood immediately after installation. This results in a facade cladding with uniform colour shades, even on surfaces not exposed to UV light.



Brushed

Brushing the wood grains adds to the natural character of the wood. In this process, the bristles remove more of the sapwood, while the harder late wood remains, leaving a rough bold texture.

FINISHES



Coated

Wood has a lot of small pores, in which dirt can accumulate. Thermally treated wood is no exception. Applying a water-based coating allows the surface to be sealed, so dirt is less likely to accumulate and the wood is also easier to clean. Also, the influence of UV light is a lot less present, preventing the aging from progressing.



Oiled

To counteract the aging of thermally treated wood, the application of an oil on a regular basis can be helpful. Think of it as sunscreen: by coating the wood and providing a buffer layer, the natural discolouration of thermally modified wood driven by UV light can be slowed down over time.

FIRE RETARDANT TREATMENT

Through the unique partnership between Lemahieu Group and Burnblock®, LDCwood® is able to offer ThermoWood® with a fully certified fire retardant performance. The fire retardant product, Burnblock®, is a sustainable solution with 100% natural ingredients and is Cradle-to-Cradle Gold-certified™.



The Burnblock® treatment under vacuum pressure is second to none:

1. The ecological aspect: Burnblock® is 100% natural and biodegradable.
2. The reaction to fire class obtained by vacuum/pressure impregnation, B-s1,d0, also meets the requirements for indoor applications.
3. The treatment takes place on the same premises as the ThermoWood® process.
4. We offer CE-certified solutions.



ROUGH SAWN THERMOWOOD®

**Our LDCwood® ThermoWood® is
also available as rough sawn timber.**

Our rough sawn timber:

- is not yet processed into patterns.
- comes in various dimensions and widths.
- is available in different types of wood, including ayous (quarter-sawn), fraké (quarter-sawn), pine, spruce, ash and poplar.

CUSTOM MADE

Custom made profiles offer architects the freedom to create whatever they have in mind for their design, thanks to our very own grinding shop. Explore our wood species to find a match with your design.



PLACEMENT & INSTALLATION



TONGUE-AND-GROOVE END JOINTS¹

End joints in LDCwood® ThermoWood® cladding refer to the points where two pieces of cladding meet at the ends. Properly managing these end joints is crucial for the overall aesthetics and durability of the cladding installation.

¹Consult the ThermoWood® handbook for detailed installation instructions.

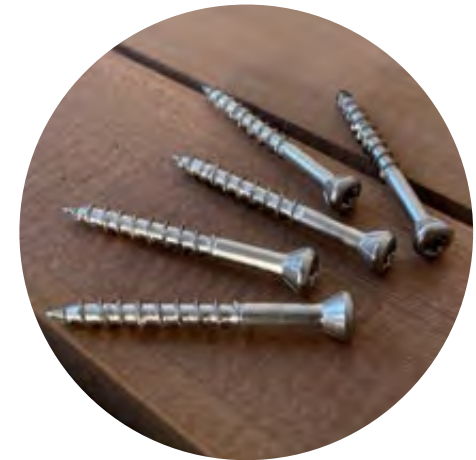


NAILS & SCREWS¹

Because of LDCwood® ThermoWood® products' pH value (acid), any fasteners must be made of stainless steel or stronger material in order to prevent corrosion. This applies to products used indoors and outdoors.

Other fasteners react with LDCwood® ThermoWood®, causing staining around the fastener. If thermally modified timber is used in combination with other materials, possible reactions between the materials must be determined.

¹ Consult the ThermoWood® handbook for detailed installation instructions.



GRAD® & B-FIX¹

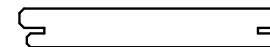
To achieve a homogeneous good looking end result, various hidden fastening systems are available:

The Grad system makes every terrace and facade more sustainable. Due to limited contact with the structure (only the clip), the lifespan of the terrace or facade planks is increased because there is no capillary action between the Grad clip and the wood. With minimal buildup, maximum ventilation is guaranteed.



© GRAD

B-FIX is a revolutionary invisible fixing system guaranteeing an impeccable finish when laying your outside decking and cladding. In addition to simple and quick installation, B-Fix also provides maximum ventilation for the floor and structure.



© B-FIX

¹ Consult the ThermoWood® handbook for detailed installation instructions.

MAINTENANCE

LDCwood® ThermoWood® has a prolonged life and it doesn't necessarily need a surface treatment applied to it. Some people choose to add a finish or paint to their timber to enrich its colour, but if it's left untreated, the wood will naturally change to a silvery grey (similar to that of cedar or larch). This process will begin immediately and, depending on the amount of UV exposure, may take several months to a year. This does not make the wood less resistant to decay.

Unlike pressure impregnated wood, LDCwood® ThermoWood® can be recycled as untreated wood when it is no longer required.





LDCWOOD® THERMOWOOD®

LDCwood® provides a solution for every need with a wide range of wood types and patterns. LDCwood® ThermoWood® can be treated with fire retardant under vacuum pressure, pre-aged, oiled, brushed and varnished.

Our membership in the International ThermoWood® Association guarantees the highest quality of thermally modified timber. With wood from sustainable managed forests there are no boundaries to choose LDCwood® ThermoWood®.

www.ldcwood.com



LDCwood® is part of
Lemahieu Group

All LDCwood® products are FSC®, PEFC, or OLB certified.
LDCwood® is a member of the International ThermoWood® Association (ITWA).
FSC® (C001899), PEFC (PEFC/07-31-24), BSI ISO 14001 Certified.

OLB (OLB-CERT/COC-190606) : registration by an independent organization according to the OLB system, which enables the tracking of wood whose origin and legality are certified. Origin and Legality of Wood © Bureau Veritas Certification.





NHG Timber Ltd.

4 Eagle House, Cranleigh Close
Sanderstead, Surrey
CR2 9LH, United Kingdom

Contact us

44(0)20 8651 4030
sales@nhgtimber.co.uk