LDC WOOD

THERMOWOOD®

PROTECTED BY NATURE

LDC WOOD

THERMOWOOD®

IMPORTED AND MARKETED TO
NORTH AMERICA BY

BPWood

BPWood Ltd.

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Canada

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www.bpwood.com

THERMALLY MODIFIED TIMBER

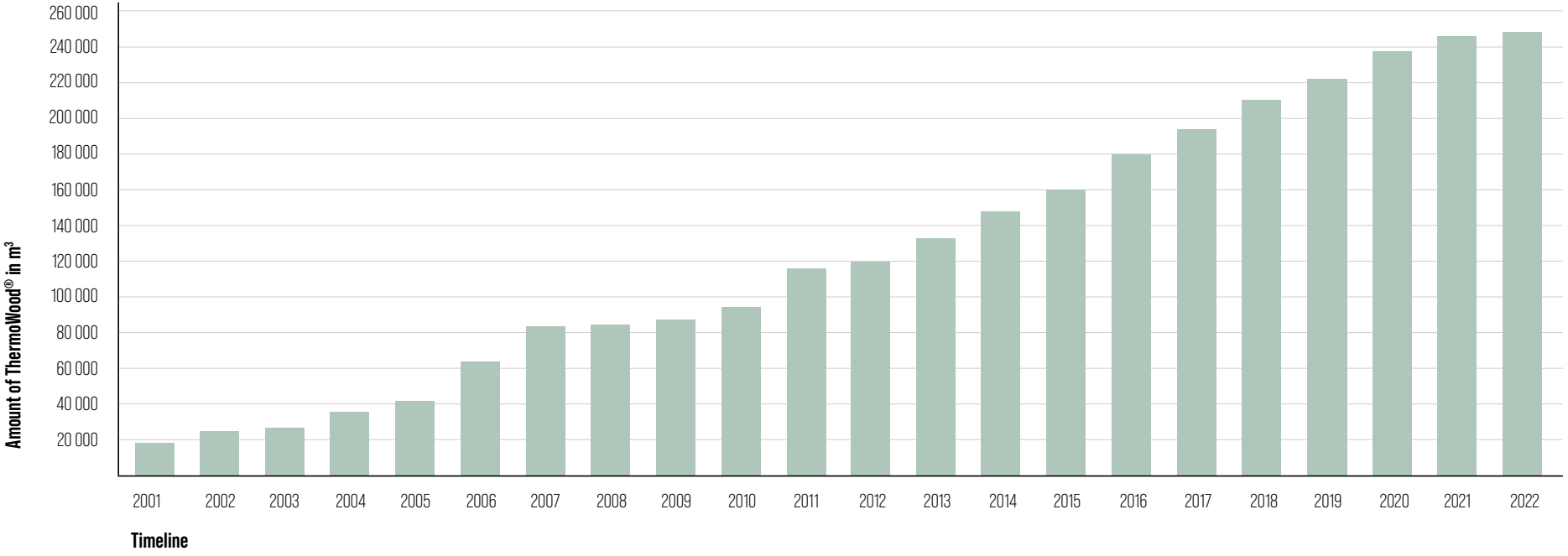
HISTORY

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.

Today, 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 2020, more than 130 million board-feet is produced annually from ThermoWood® facilities alone!

- **1900**s: original scientific study of thermal modification of wood
- **1980**s: first commercial thermal modification facility is built in Germany
- **1993**: development of the industrial-scale ThermoWood® process for improving the properties of timber with heat
- **Today**: > 130 million board-feet produced annually

The growth of ThermoWood® production
between 2001 and 2022



Source: The ThermoWood® Handbook

EMBRACING THERMOWOOD®

ThermoWood® is not new but North America has been slow to adopt for a number of reasons.

Other products

Other sustainable and affordable products have been available.

Lack of familiarity

You can't know what you're missing if you don't know it exists.

Lack of critical mass

Total production was small, unable to supply meaningful volumes to promote mass adoption in North America.

Lack of perceived value

Offerings have traditionally been highly specialized products, resulting in higher costs than necessary today.

SHIFT TO THE FUTURE

The market is shifting towards more sustainable solutions.

Supply challenges

Long-term viability of traditional 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.

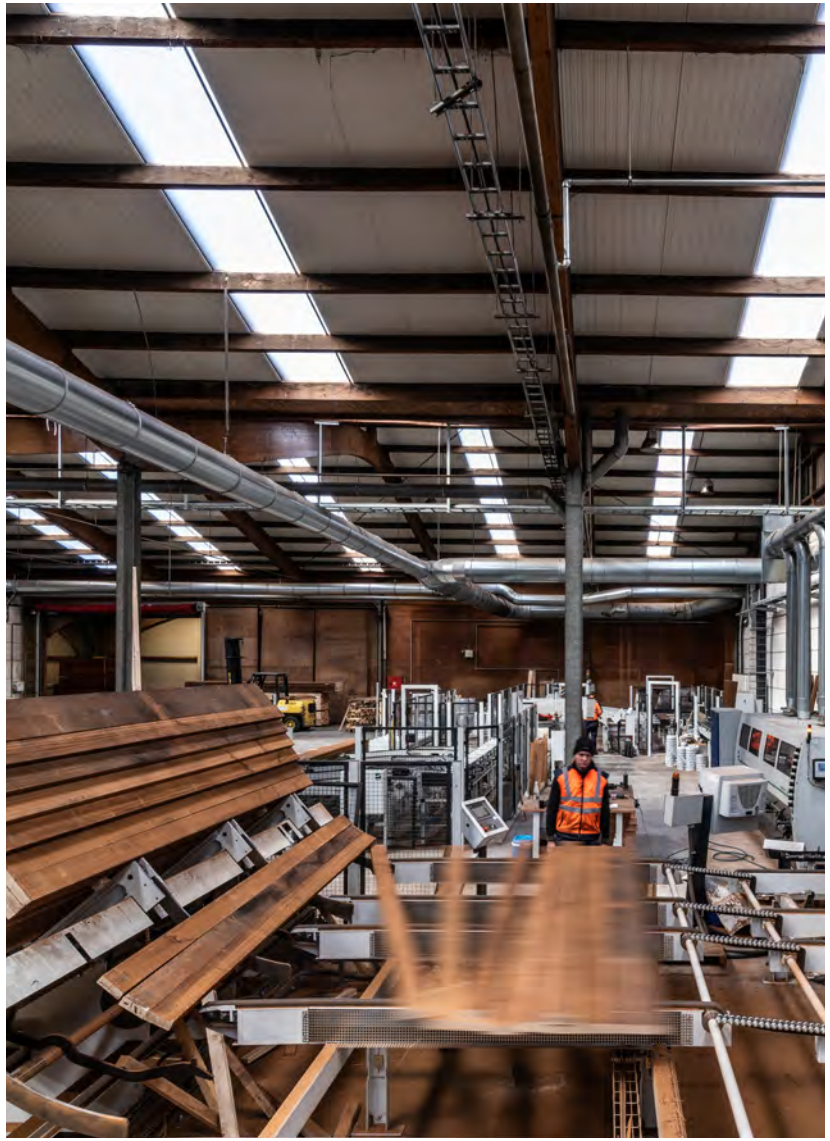
Adoption of mass timber

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: ThermoWood® pine - Thermo-D



LDCWOOD IS PART OF **LEMAHIEU GROUP**

Thanks to its multi-faceted and complementary divisions in specialty wood and panels, Lemahieu group has long developed relationships with many european wood producers in all corners of the continent.

Lemahieu Group houses LDCwood'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


LDC
WOOD
THERMOWOOD®

LDC WOOD

THERMOWOOD®

PROTECTED BY NATURE

When you use LDCwood, 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 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.

PROTECTED BY NATURE

The story behind the bird and the rhino

High in the sky, with a literal bird's eye view, the red-billed oxpecker 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's sustainable durable wood products.

PROTECTED BY NATURE

At LDCwood, we are serious about our responsibilities 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.

ORIGIN

Origin of our wood

PROCESS

Sustainability through our process

CREATION

Designs that leave a mark

BUILDING WITH WOOD IS GOOD

BENEFITS

When you design and build, you intent to make an impact on society, not on nature. By choosing 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.

- **Long lifespan**

  Since ThermoWood® is rot and insect resistant, it benefits from a long life expectancy.

- **Ageing with dignity**

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

The uprise of sustainability

- **Natural is key**

  The entire world is made conscious of environmentally friendly and sustainable building solutions.

- **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.

BUILDING WITH WOOD IS GOOD

BENEFITS

Low carbon footprint

- **Sustainable forest management**

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

- **Low impact**

  The production and treatment of wood has a low carbon footprint.

- **Lasting constructions**

  Wooden structures using ThermoWood® last significantly longer than other wood constructions, reducing its carbon footprint even more.

The planet's well-being

- **Renewable building material**

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

- **CO_2 containment**

  Wood absorbs CO_2 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.

BUILDING WITH WOOD IS GOOD

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 CO_2 from the atmosphere. The carbon stored by the tree is retained in ThermoWood®.

- Carbon-storing

- 607 kg CO_2 ayous

- 684 kg CO_2 poplar

- 715 kg CO_2 spruce

- 824 kg CO_2 pine

- 871 kg CO_2 fraké

-1 073 kg CO_2 ash

Net carbon emissions per m^3 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 CO_2 from entering the atmosphere.

Carbon-emitting +

Aluminium **+ 29 396** kg CO_2

Steel **+ 17 964** kg CO_2

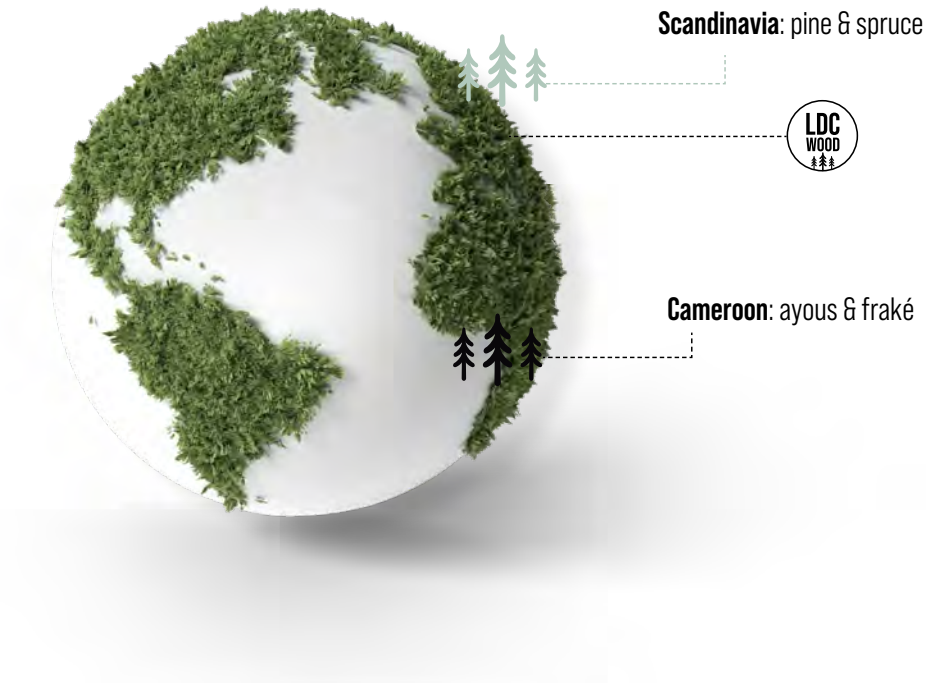
Hard plastics **+ 5 444** kg CO_2

Concrete **+ 436** kg CO_2

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

ORIGIN OF OUR WOOD

Our wood originates from sustainably managed forest around the world.



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 hardwood 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 licensed European system for verifying the legality of wood.

ORIGIN OF OUR 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 caried out:

1. Roads are constructed, taking into account topography, waterways and wildlife.
   The crowns of the trees keep touching each other so that the monkeys can smoothly cross the road by air.
2. Trees are cut. Each trunk receives an ID-tag. A 60 inch stump is left. The same ID is attachted to the stump.
   All stumps are traceable. They are catalogued and archived for future reference.
3. Logs are collected in open squares.
4. The logs go to 1 of the 3 sawmills where they are first split and left to rest for 4 months before being quarter sawn.
   Lengths up to 19.85 feet are the objective and are exactly what makes Decolvenaere so unique.
5. All sawn timber is checked and categorized into quality classes.
   Only timber that meets the highest quality class will be exported to Belgium for thermal treatment.
6. The reforestation program replants the open squares.
   The jungle takes over the roads and squares.

Dedicated team

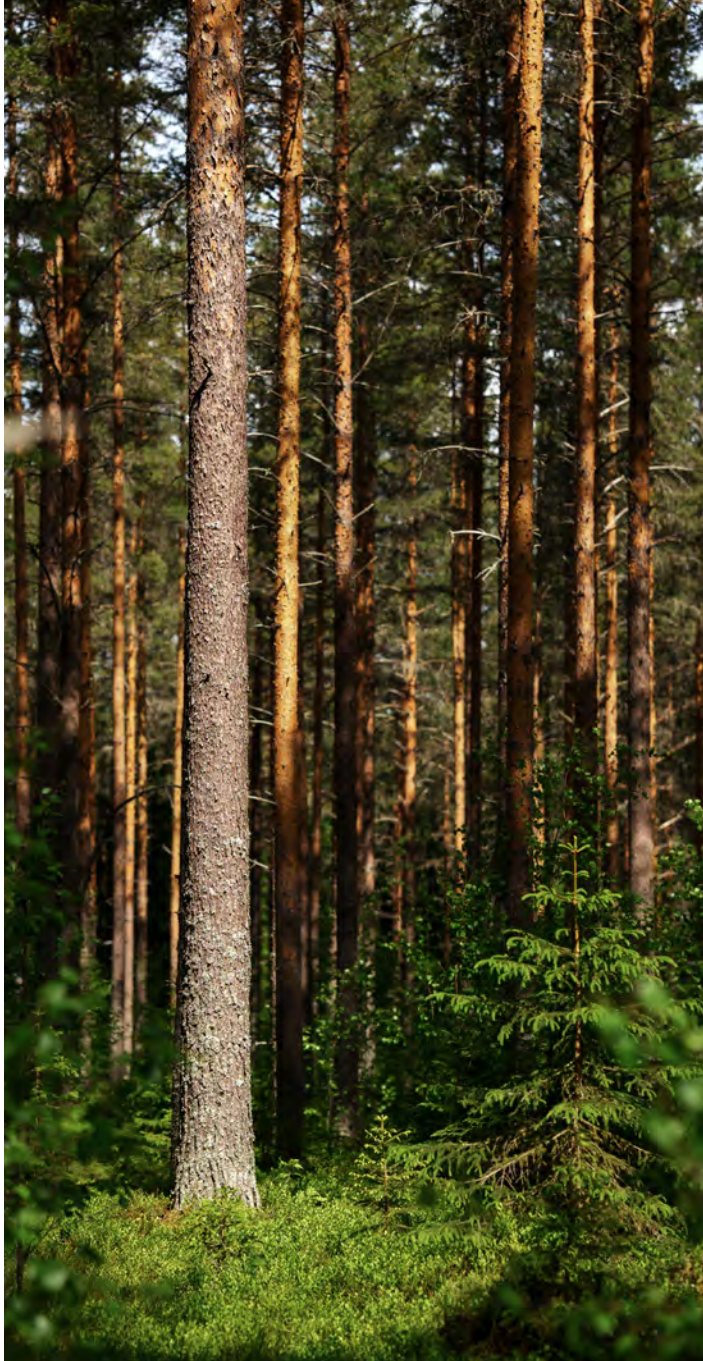
The three sawmills are close to the rural communities. To facilitate easy access, education, healthcare and well-being, Decolvenaere provides housing, schools, hospitals, food supply, sports facilities and furniture manufacturers for the more than 800 workers and their families. In total, Decolvenaere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

ORIGIN OF OUR WOOD

Scandinavian sourced wood

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.



ORIGIN OF OUR WOOD

Scandinavian sourced wood

With the goal of optimizing what the forest gives us so it will last for many generations to come, the sawmill selects trees early on that will become or remain wood products for diversity and food for wildlife.
Trees are cut with as little loss as possible.

When the log arrives at the sawmill, it is measured, sorted and merged with similar logs that are cut to optimize the amount of usable wood.

The logs are cut into boards and then dried until the desired level is reached.

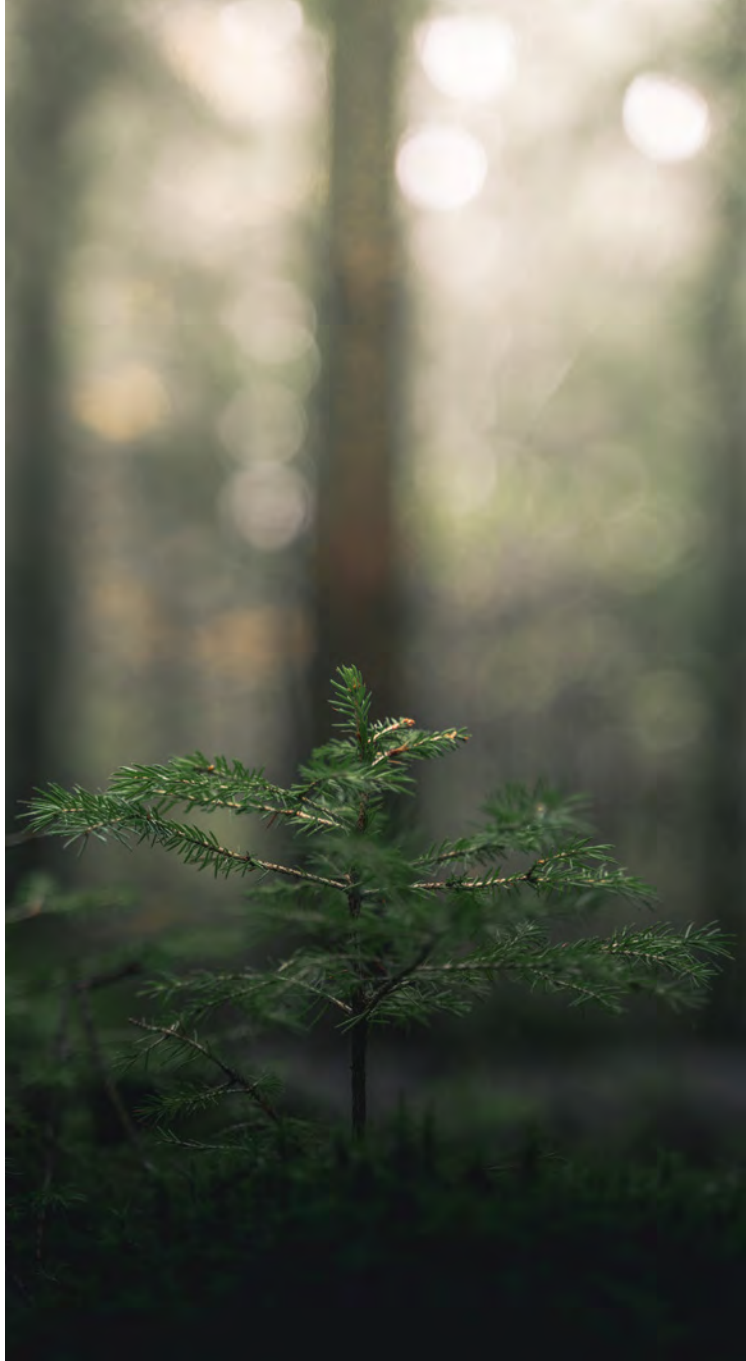
Materials that do not qualify as wood products go to pulp mills or are used as biofuel, an environmentally friendly alternative to oil and lignite. Chips from the planing mills are made into animal bedding.

By making maximum use of the forest, the forest owner gets the best possible compensation, while the sawmill takes responsibility for the entire forest cycle, from sapling to panel.

ORIGIN OF OUR WOOD

Scandinavian sourced wood

© Pictures: Norraskog



THE PROCESS

THERMO-D TREATMENT
OF EVERY FIBER

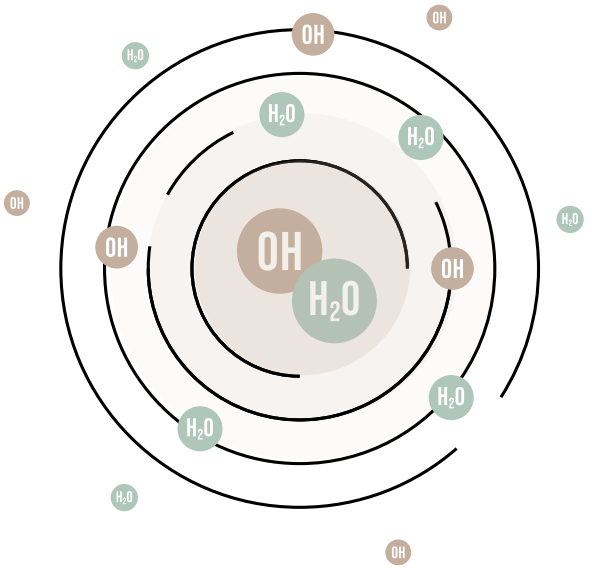
What is ThermoWood®?

ThermoWood® is a patented name 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.

ITWA TMT® ThermoWood

www.thermowood.fi

Download the ThermoWood® handbook



Consistent quality due to standard 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 independent third parties to maintain a high quality.

THERMO-D TREATMENT
OF EVERY FIBER

ThermoWood® process in 3 phases

PHASE 1

Timber dries and moisture is removed.

- High-temperature drying: 212-413,6°F (100-212°C)
- Moisture level: 20% -> 0%

PHASE 2

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

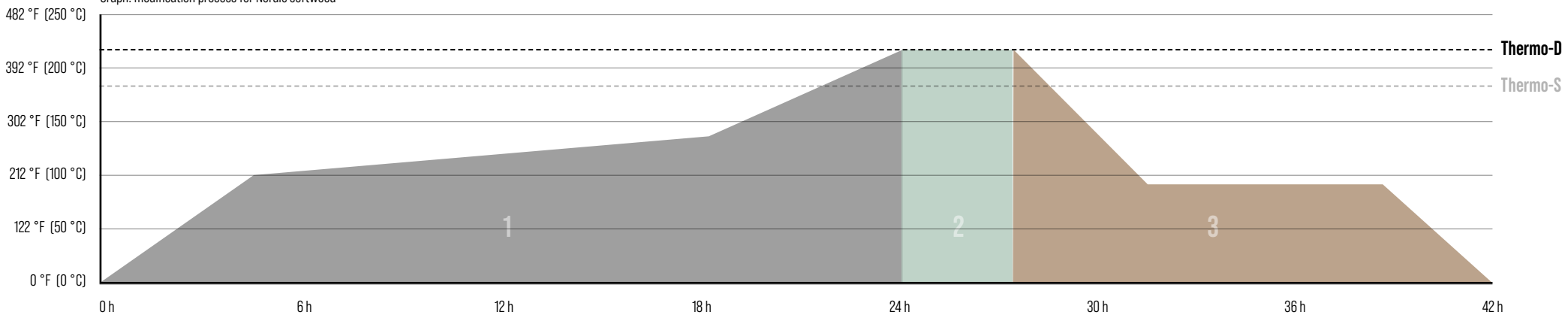
- Thermal modification: 413,6°F (212°C)
- Moisture level: 0%

PHASE 3

Temperature is lowered and the moisture content is increased with a water-spray system.

- Conditioning/cooling
- Moisture level: 0% -> 4-7%

Graph: modification process for Nordic softwood



THE THERMOWOOD® PROCESS, A PART OF

Our firm's DNA

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

LDC WOOD

THERMOWOOD®

5 reasons to love ThermoWood®

ThermoWood® preservation treats wood all the way to its core yielding stunning results.

Rot-resistant

LDCwood ThermoWood® has a low moisture content.

Dimensionally stable

The high temperature greatly reduces moisture and increases hardness values.

Easy to maintain

The wood lasts longer, requiring next to no maintenance.

Highly insulating

Its thermal conductivity is up to 20-25% lower than unmodified wood.

100% natural and durable

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

Photo: ThermoWood® pine · Thermo-D

LDC WOOD

THERMOWOOD®

Endures extreme weather conditions

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, ThermoWood® survives even the most extreme weather conditions.

Durability Class (EN 350)	Use Class (EN 335)	Examples of applications	LDCwood® products
1 Very durable	**3** Outdoors, exposed to weather		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 Little durable	**1** Indoors in dry conditions	Interior cladding	

PRODUCTS

COLLECTIONS

ALKE

ayous & fraké

LAGOM

pine & spruce

ALKE COLLECTION

Alke: 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 color. The robust color combined with the typical lines and pinholes 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 less irregular, more rustic character. You could say that fraké takes on a more 'historic', natural look thanks to the black streaks and pinholes while ayous has more of a modern look-and-feel. Ayous has a Janka hardness of 430 and would be closest compared to clear Western Red Cedar for appearance, density and workability.

LAGOM COLLECTION

Lagom (Swedish): 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 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 recognized 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 color, 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.

POSSIBILITIES
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.

Contact us with your dream patterns.

ROUGH SAWN THERMOWOOD®

ThermoWood® solutions are 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.

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™.

BURNBLOCK®

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

1. The ecological aspect: Burnblock® is 100% natural, biodegradable and non-toxic.
2. The reaction to fire class obtained by vacuum/pressure treatment also meets the requirements for indoor applications.
3. The treatment takes place on the same premises as the ThermoWood® process.

To inquire for North-America Safety Certificates, contact us

FINISHES

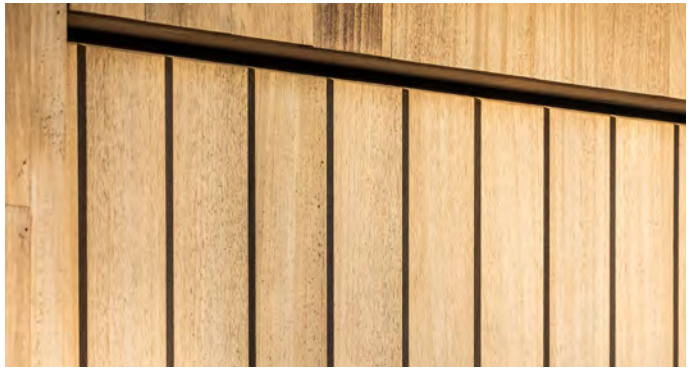
Pre-grayed

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

Brushed

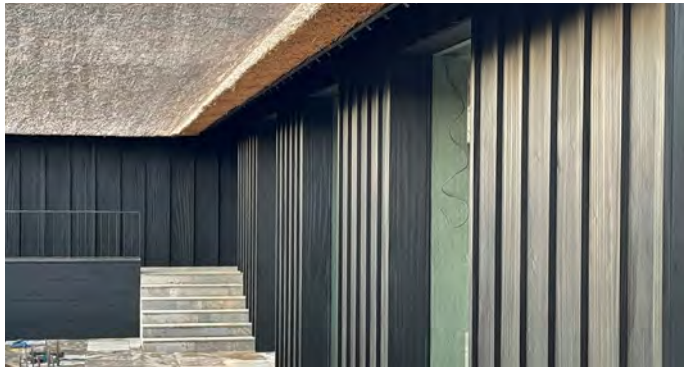
Brushing the wood grains adds to the natural character of the wood. In this process, the bristles remove more of the spring wood, while the harder late wood remains, leaving a rough bold texture.

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.

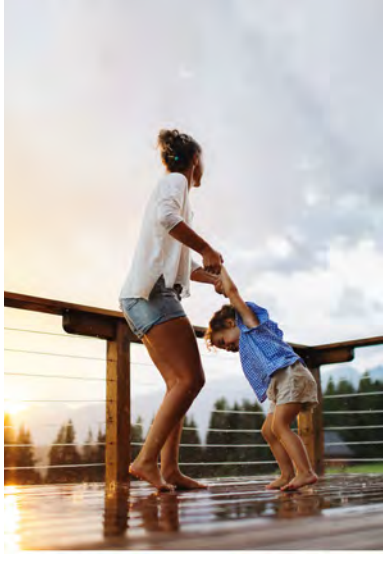


Oiled

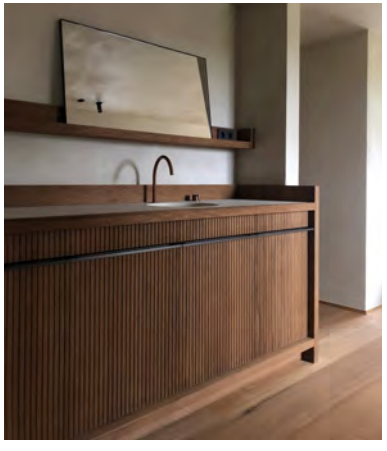
To counteract the aging of thermally treated wood, the application of an oil can be helpful without having a permanent effect. Think of it as sunscreen: by coating the wood and providing a buffer layer, the natural discoloration of thermally modified wood driven by UV light can be slowed down over time.

LDCWOOD IN USE

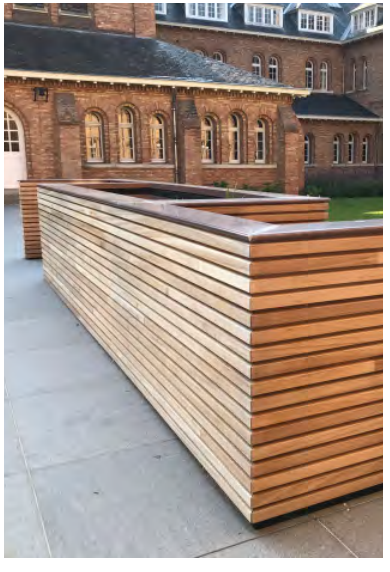
Cladding



Decking



Interior



Outdoor

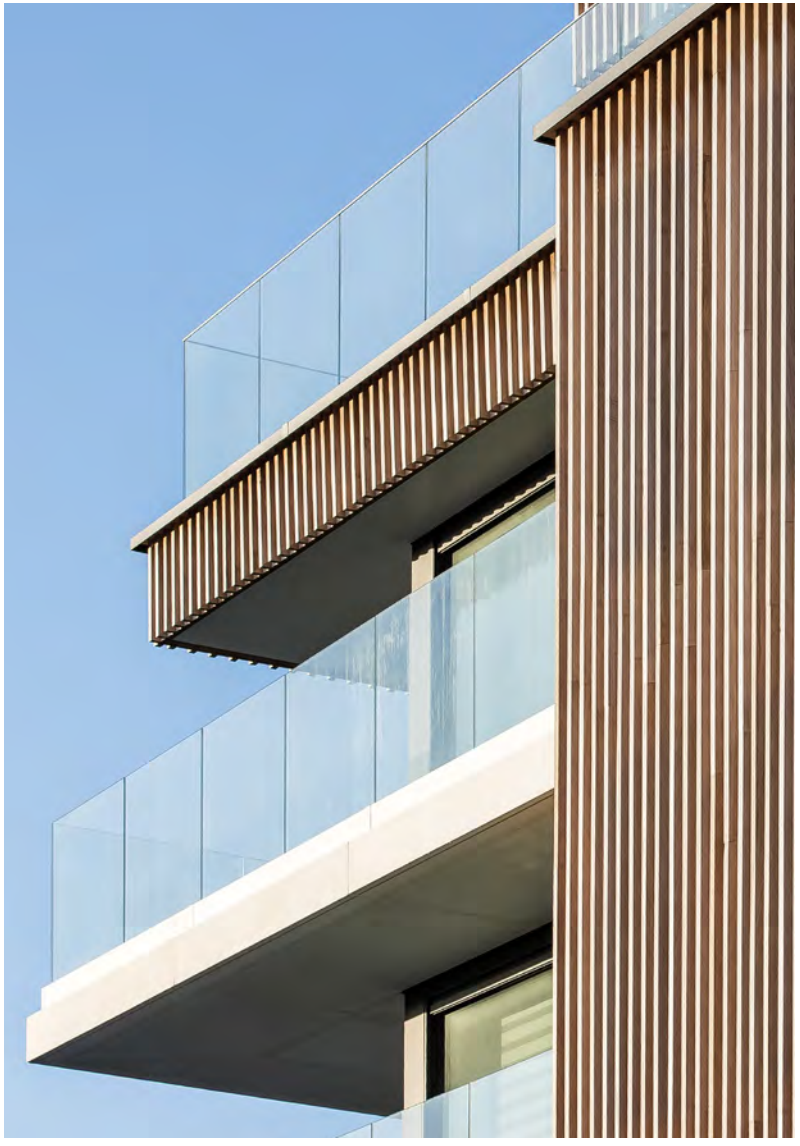
LDCWOOD IN USE

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

Photo: ThermoWood® ayous · Thermo-D



LDCWOOD IN USE

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

Photo: Decking ThermoWood® ash · Thermo-D
Cladding ThermoWood® pine · Thermo-D

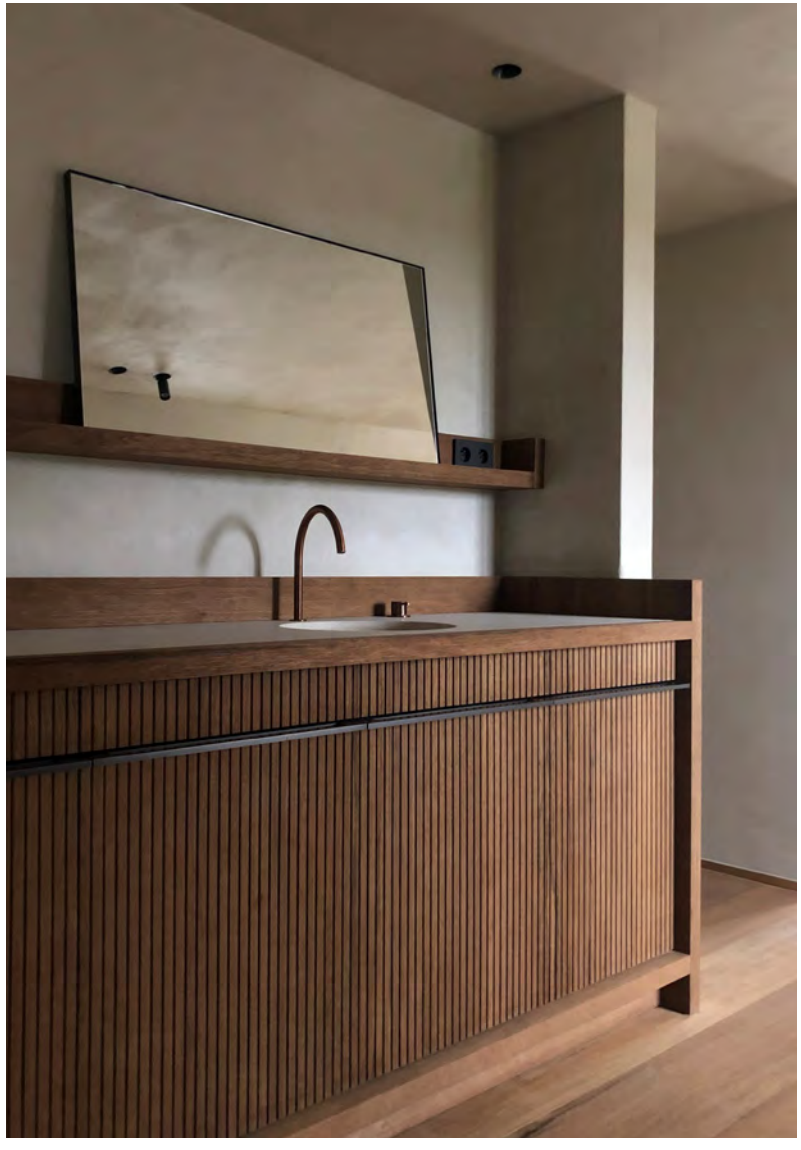
LDCWOOD IN USE

Interior

For interior applications, thermally modified wood is a joy to work with. The stability is stunning, and it won't warp. LDCwood 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

Photo: ThermoWood® fraké



LDCWOOD IN USE

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!

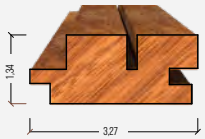
- Durable
- Rot resistant
- Dimensionally stable
- Low maintenance
- Signature creations

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

ALKE

CLADDING **FRAKÉ**

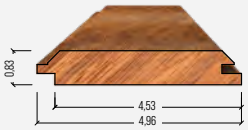
★ Durability class



GODO ★ II

1,34 x 3,27 " - (2,76)

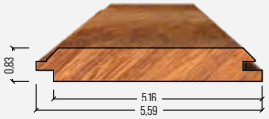
ThermoWood® fraké



EDEA ★ II

0,83 x 4,96 " - (4,53)

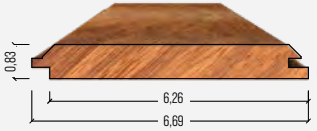
ThermoWood® fraké



MORA ★ II

0,83 x 5,59 " - (5,16)

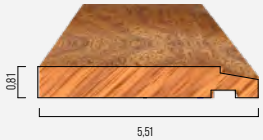
ThermoWood® fraké



BANA ★ II

0,83 x 6,69 " - (6,26)

ThermoWood® fraké



STORM1 ★ II

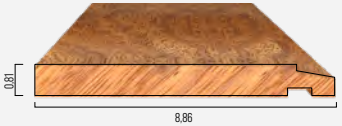
0,81 x 5,51 "

ThermoWood® fraké

STORM2 ★ II

0,81 x 6,50 "

ThermoWood® fraké



STORM3 ★ II

0,81 x 8,86 "

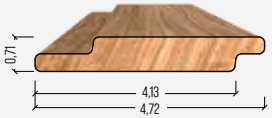
ThermoWood® fraké

ALKE

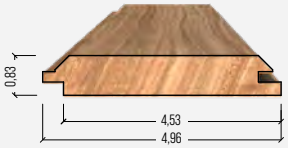
CLADDING **AYOUS**

★ Durability class

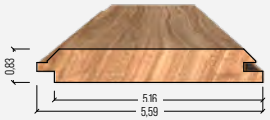
PARA ★ I
0,71 x 2,68 “
ThermoWood® ayous



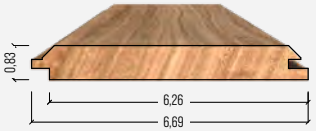
NOLA ★ I
0,71 x 4,72 “ - (4,13)
ThermoWood® ayous



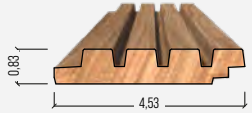
EDEA ★ I
0,83 x 4,96 “ - (4,53)
ThermoWood® ayous



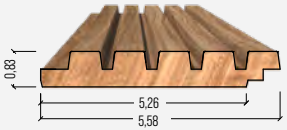
MORA ★ I
0,83 x 5,59 “ - (5,16)
ThermoWood® ayous



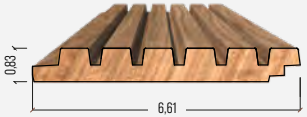
BANA ★ I
0,83 x 6,69 “ - (6,26)
ThermoWood® ayous



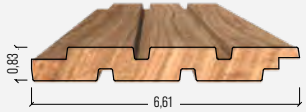
RIB4 ★ I
0,83 x 4,53 “ - (4,21)
ThermoWood® ayous



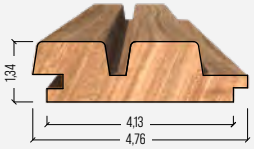
RIB5 ★ I
0,83 x 5,58 “ - (5,26)
ThermoWood® ayous



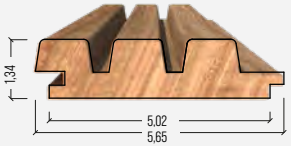
RIB6 ★ I
0,83 x 6,61 “ - (6,30)
ThermoWood® ayous



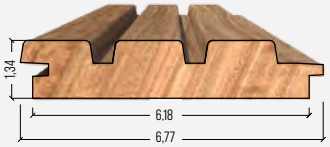
ZAZA ★ I
0,83 x 6,61 “ - (6,10)
ThermoWood® ayous



BELO ★ I
1,34 x 4,76 “ - (4,13)
ThermoWood® ayous



BOGO ★ I
1,34 x 5,65 “ - (5,02)
ThermoWood® ayous



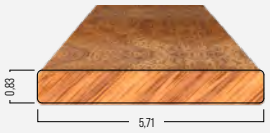
LOBO ★ I
1,34 x 6,77 “ - (6,18)
ThermoWood® ayous

FARO ★ I
1,34 x 7,33 “ - (6,69)
ThermoWood® ayous

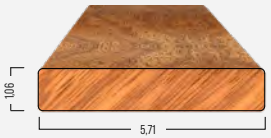
ALKE

DECKING **FRAKÉ**

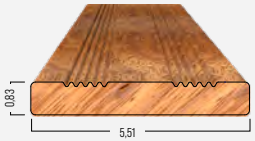
★ Durability class



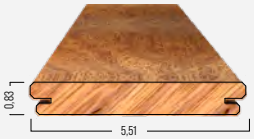
TERRAS 1 ★ II
0,83 x 5,71 “
ThermoWood® fraké



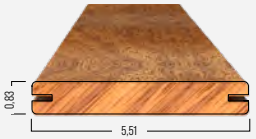
TERRAS 2 ★ II
1,06 x 5,71 “
ThermoWood® fraké



TERRAS 3 ★ II
0,83 x 5,51 ”
ThermoWood® fraké



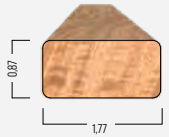
TERRAS 4 ★ II
0,83 x 5,51 “
ThermoWood® fraké



TERRAS 5 ★ II
0,83 x 5,51 “
ThermoWood® fraké

ALKE

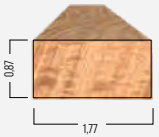
INTERIOR **AYOUS**



INTERIOR 1

0,87 x 1,77 “

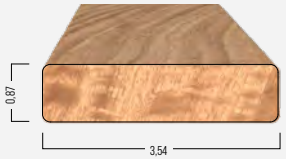
ThermoWood® ayous



INTERIOR 2

0,87 x 1,77 “

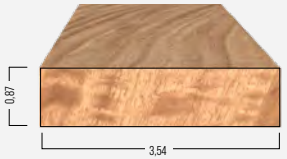
ThermoWood® ayous



INTERIOR 3

0,87 x 3,54 “

ThermoWood® ayous

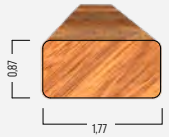


INTERIOR 4

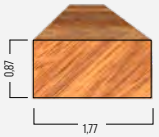
0,87 x 3,54 “

ThermoWood® ayous

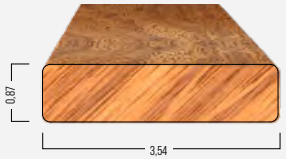
INTERIOR **FRAKÉ**



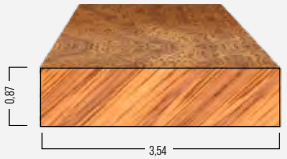
INTERIOR 1
0,87 x 1,77 “
ThermoWood® fraké



INTERIOR 2
0,87 x 1,77 “
ThermoWood® fraké



INTERIOR 3
0,87 x 3,54 “
ThermoWood® fraké

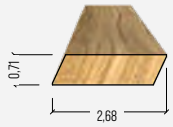


INTERIOR 4
0,87 x 3,54 “
ThermoWood® fraké

LAGOM

CLADDING **PINE/SPRUCE**

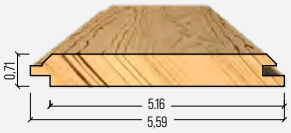
★ **Durability class**



PARA ★ I/II

0,71 x 2,68 “

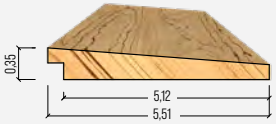
ThermoWood® pine/spruce



ALTA ★ I/II

0,71 x 5,59 “ (5,16)

ThermoWood® pine/spruce



TABY ★ I/II

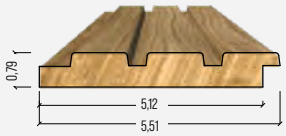
0,37 x 5,51 “ (5,12)

ThermoWood® pine/spruce

JAMY ★ I/II

0,45 x 7,48 “ (6,89)

ThermoWood® pine/spruce



KITE ★ I/II

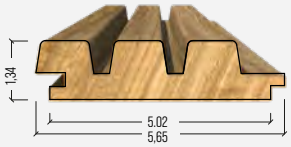
0,79 x 5,51 “ (5,12)

ThermoWood® pine/spruce

KYLE ★ I/II

1,06 x 5,65 “ (5,02)

ThermoWood® pine/spruce



OSLO ★ I/II

1,34x 5,65 “ (5,02)

ThermoWood® pine/spruce

BODO ★ I/II

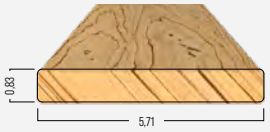
1,34x 7,33 “ (6,69)

ThermoWood® pine/spruce

LAGOM

DECKING **PINE/SPRUCE**

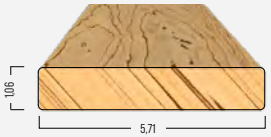
★ Durability class



TERRAS 1 ★ I/II

0,83 x 5,71 “

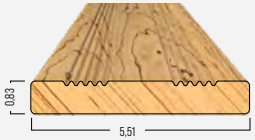
ThermoWood® pine/spruce



TERRAS 2 ★ I/II

1,06 x 5,71 “

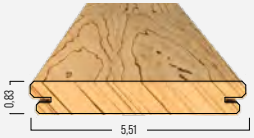
ThermoWood® pine/spruce



TERRAS 3 ★ I/II

0,83 x 5,51 “

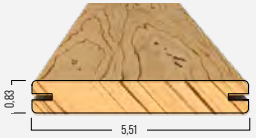
ThermoWood® pine/spruce



TERRAS 4 ★ I/II

0,83 x 5,51 “

ThermoWood® pine/spruce



TERRAS 5 ★ I/II

0,83 x 5,51 “

ThermoWood® pine/spruce

LAGOM

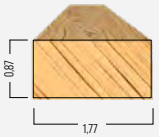
INTERIOR **PINE/SPRUCE**

★ Durability class

INTERIOR 1 ★ I/II

0,87 x 1,77 “

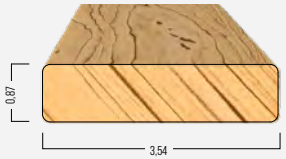
ThermoWood® pine/spruce



INTERIOR 2 ★ I/II

0,87 x 1,77 “

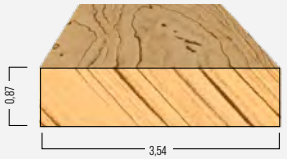
ThermoWood® pine/spruce



INTERIOR 3 ★ I/II

0,87 x 3,54 “

ThermoWood® pine/spruce



INTERIOR 4 ★ I/II

0,87 x 3,54 “

ThermoWood® pine/spruce

LDC WOOD

OVERVIEW CLADDING AND OUTDOOR

	ALKE		LAGOM	
	FRAKÉ	AYOUS	PINE	SPRUCE
ALTA			●	●
BANA		●		
BELO		●		
BODO			●	●
BOGO		●		
EDEA	●	●		
ELSA		●		
FARO		●		
GODO	●			
JAMY			●	●
KYLE			●	●
LOBO		●		
MORA	●	●		
NOLA		●		
OSLO			●	●
PARA		●	●	●
RIB4		●		
RIB5		●	●	●
RIB6		●		
STORM1	●			
STORM2	●			
STORM3	●			
TABY			●	●
ZAZA		●		

LDC WOOD

OVERVIEW INTERIOR

	ALKE		LAGOM	
	FRAKÉ	AYOUS	PINE	SPRUCE
INTERIOR 1	●	●	●	●
INTERIOR 2	●	●	●	●
INTERIOR 3	●	●	●	●
INTERIOR 4	●	●	●	●

OVERVIEW DECKING

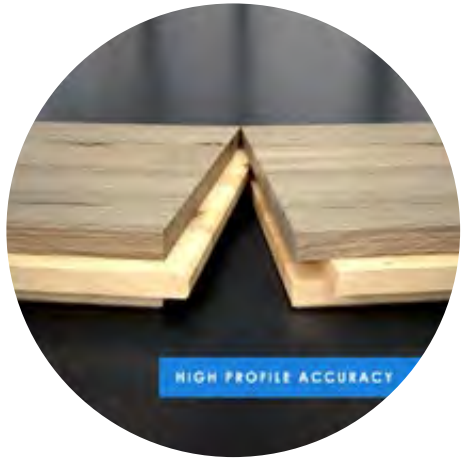
	ALKE		LAGOM	
	FRAKÉ	AYOUS	PINE	SPRUCE
DECKING 1	●		●	●
DECKING 2	●		●	●
DECKING 3	●		●	●
DECKING 4	●		●	●
DECKING 5	●		●	●

PLACEMENT & INSTALLATION

TONGUE-AND-GROOVE END JOINTS[1]

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.

[1] Consult the ThermoWood® handbook for detailed installation instructions.

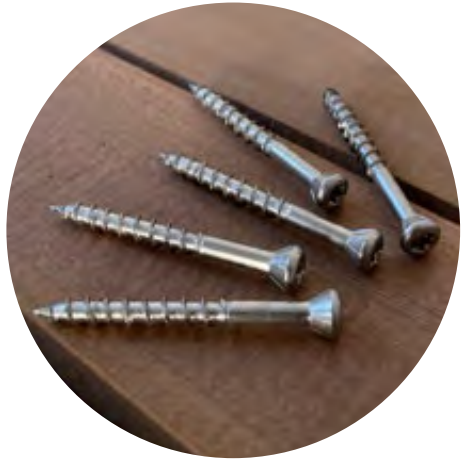


NAILS & SCREWS[1]

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.



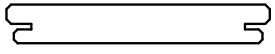
GRAD® & B-FIX[1]

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

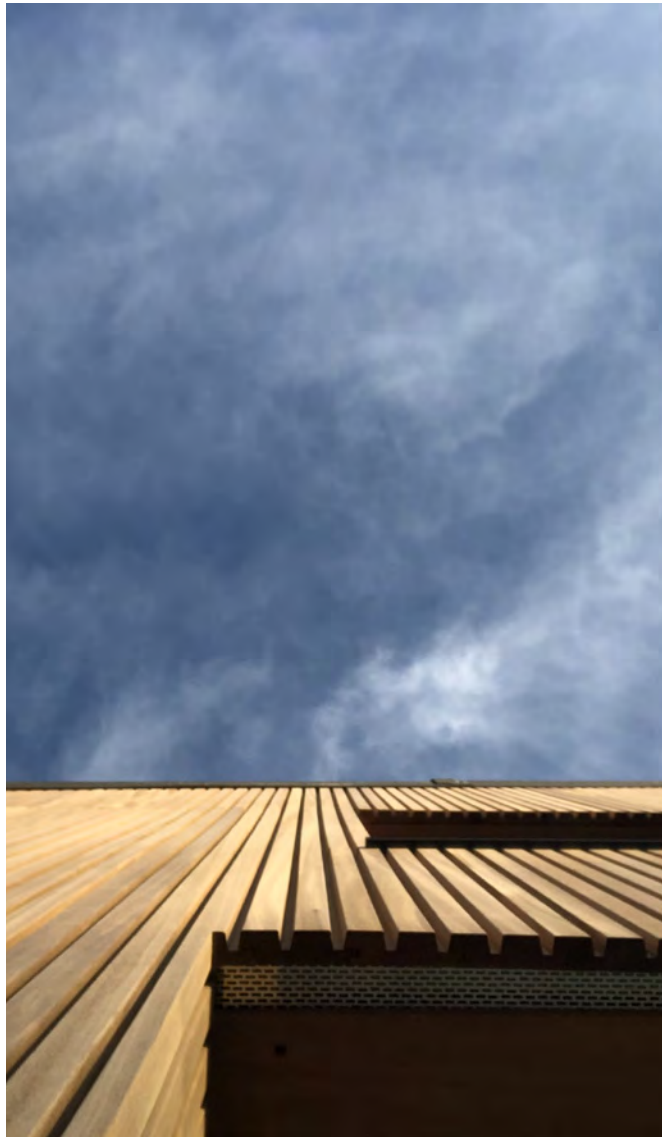
[1] Consult the ThermoWood® handbook for detailed installation instructions.

PRODUCT MAINTENANCE

PRODUCT MAINTENANCE

ThermoWood® needs no maintenance. In itself it is rot and insect resistant. This prolongs its life expectancy greatly, meaning that wooden constructions made with ThermoWood® are beneficial for the environment. They last longer than other wooden structures and as such reduce their carbon footprint even more.

Additionally, ThermoWood® ages with dignity. Without further finishing, it turns silver-grey over time due to UV-exposure.



THERMOWOOD®
IN PRACTICE

AG Campus

Brussels, Belgium

- ThermoWood® pine
- Thermo-D

Treated with fire retardant, Burnblock®, to the desired reaction to fire class.

Architect:

EVR Architects

Benoit Viane

- ThermoWood® fraké
- Thermo-D

Architect:

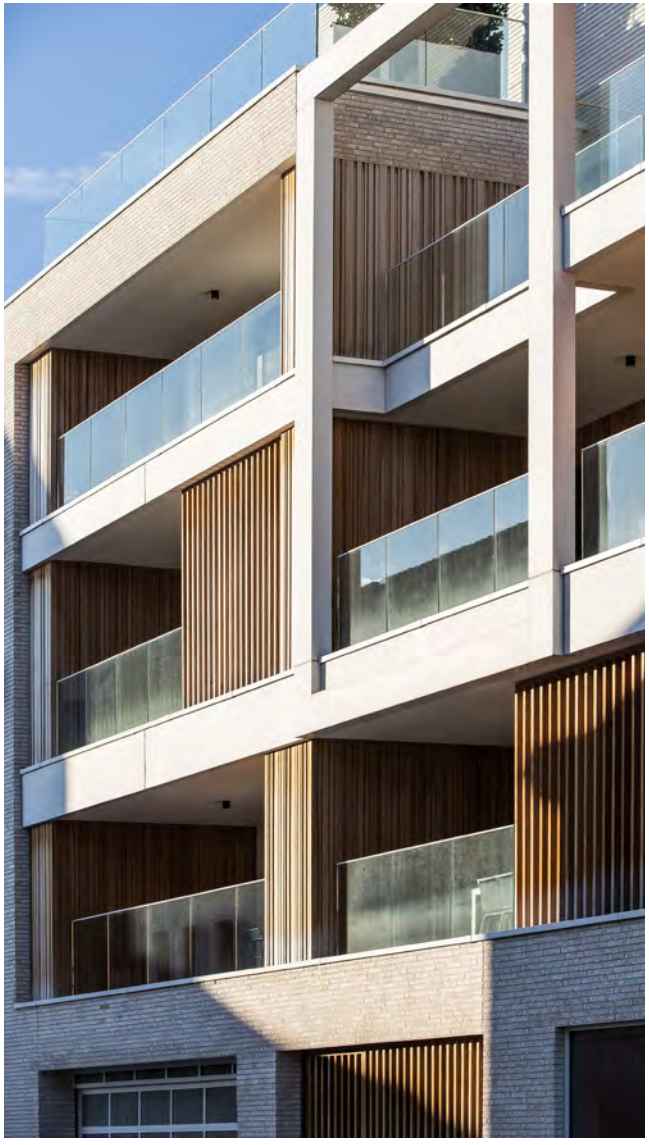
Benoit Viane

Benoit Viane

- ThermoWood® fraké
- Thermo-D

Architect:

Benoit Viane



Dockside Garden

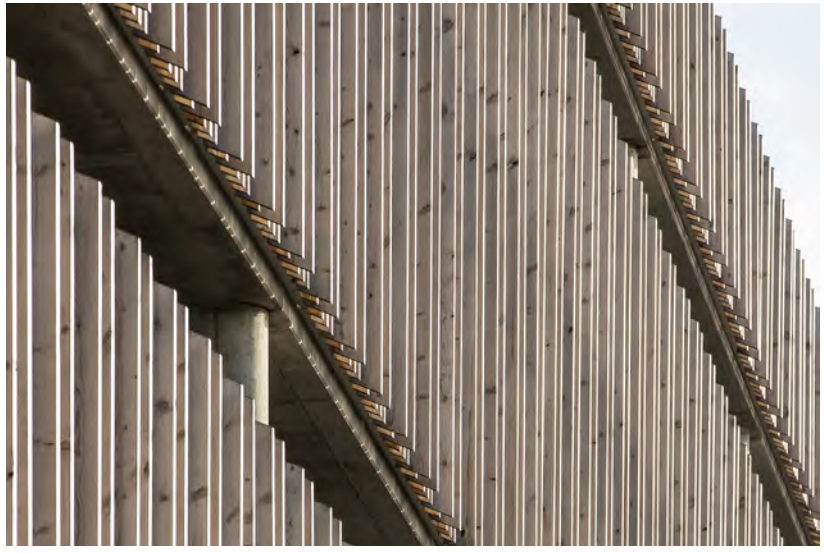
Ghent, Belgium

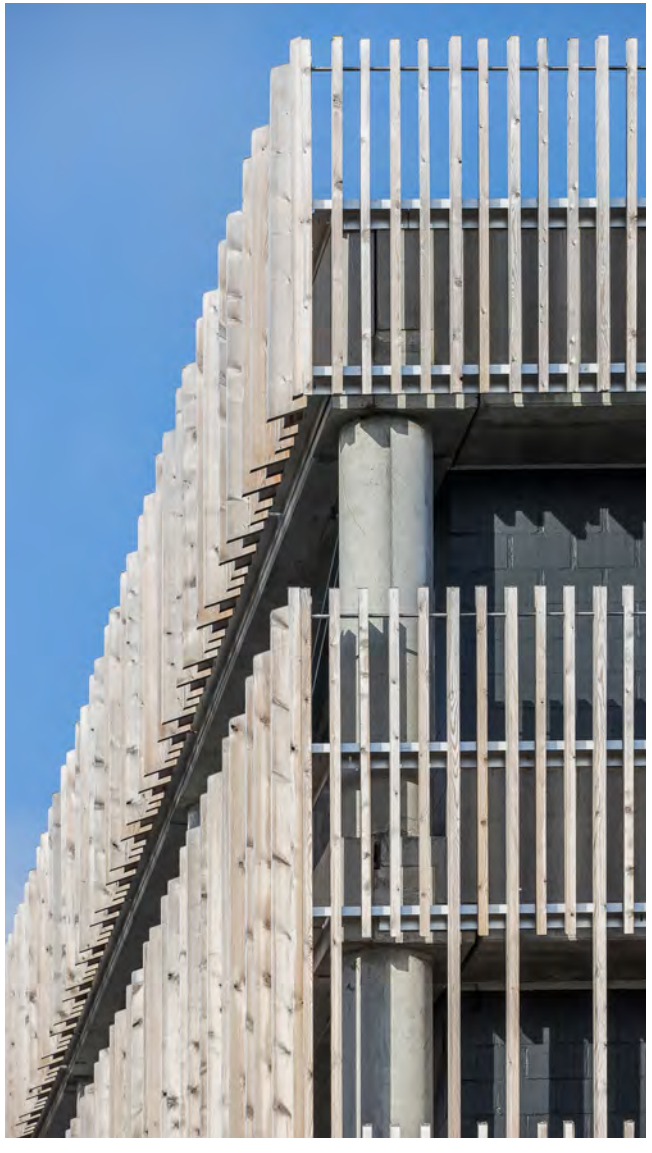
- ThermoWood® ayous
- Thermo-D

Treated with fire retardant, Burnblock®, to the desired reaction to fire class.

Architect:

Bontinck





Shuttle parking
Aalst, Belgium

- ThermoWood® spruce
- Thermo-D

Treated with fire retardant, Burnblock®, to the desired reaction to fire class.

Planed and machined on CNC ROBOT-Drive

Architect:
HUB Architecture BVBA

Gantoise Hockey
Ghent, Belgium

- ThermoWood® pine
- Thermo-D

Treated with fire retardant, Burnblock®, to the desired reaction to fire class.

Planed

Architect:
Servaas Vertongen

Maria Assumpta

Dilbeek, Belgium

- ThermoWood® ayous
- Thermo-D

Treated with fire retardant, Burnblock®, to the desired reaction to fire class.

Architect:

Laurijssens architect

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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 of 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.

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North America isn’t just ready for ThermoWood® ...
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