

- > embellish
- > protect
- > innovate

# Upgrade nature



LEMAÎTRE  
GROUP

# Experience the powerful combination of **Nature, Durability and Aesthetics**



In "Upgrade Nature" **we zoom in on the intrinsic beauty of wood** by offering a range of products that have been carefully coated.

## Upgrade Nature

We believe that in its purest form, wood is already perfect and our mission is to expand its applications through environmentally friendly fire-retardant and thermal treatments and coatings.

## Sustainable

We select wood from sustainably managed forests, prioritising both preserving our environment and delivering exceptional quality.

## Aesthetics

Our upgraded wood products offer endless creative possibilities. From refined furniture to flooring or striking architectural elements and wall and facade cladding, our solutions seamlessly match your vision.



## > Combine the right look with perfect protection.

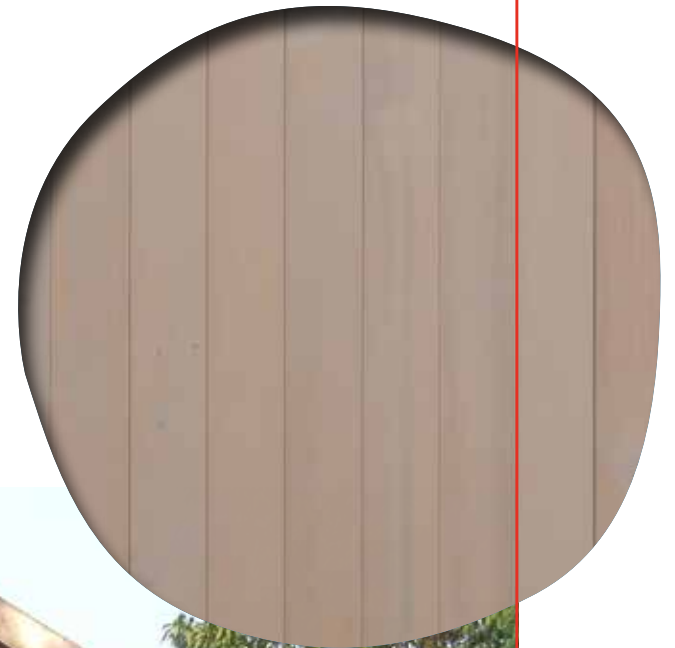


Lemahieu helps you make the right choices. Wood type, profile, maintenance, durability, ... Together, we make your project stand out.

## > Why coat your wooden facade?

Finishing exterior wood with a wax, stain, oil or varnish can offer many advantages. Outdoors, wood is exposed to dirt and various weather conditions including sunlight, rain and wind.

Build-up of dirt, water rings, uneven discolouration, growth of micro-organisms, undesired ageing, ... are disadvantageous properties that can be considerably improved thanks to a coating.



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A photograph of a modern building's exterior. On the right, there are vertical wooden slats. In the foreground, there's a stone-paved area. To the left, a wooden bench sits on a stone platform. A large glass window reflects the sky and trees. The text "Wood is timeless and a quality coating is the art of preserving that timelessness." is overlaid on the right side.

Wood is timeless  
and a quality coating  
is the art of preserving  
that timelessness.





# 1 | THE WOOD TYPE

## > Depending on the application, choosing the right type of wood is crucial.


You should take into account not only aesthetics and price but also durability and environmental responsibility. Choosing the right type of timber can not only extend the lifespan of the project but also have a long-term positive impact on the environment.

## > The durability of wood

| Durability class<br>(EN 350-1) | Usage class<br>(EN 335-1)   | Examples<br>of applications                                 | Products   |
|--------------------------------|---|---|--|
| <b>1</b> Very durable          | <b>5</b> Timber in contact with salt water<br><b>4</b> Timber in contact with fresh water | Facade cladding<br>Decking<br>Garden structures             | LDCwood® ThermoWood® Ayous<br>LDCwood® ThermoWood® Pine  |
| <b>2</b> Durable               | <b>3</b> Structures exposed to weather  | Facade cladding<br>Decking<br>Garden structures             | LDCwood® ThermoWood® Spruce<br>LDCwood® ThermoWood® Ash*<br>LDCwood® ThermoWood® Fraké<br>LDCwood® ThermoWood® poplar* |
| <b>3</b> Moderately durable    | <b>2</b> Roof carpentry   | Sauna structures<br>Exterior structures<br>and roof joinery | Lemahieu Douglas   |
| <b>4</b> Less durable          | <b>1</b> Timber for dry applications  | Interior wall cladding                                      |  |
| <b>5</b> Not durable           | <b>1</b> Timber for dry applications  | Interior wall covering                                      |  |

\* in a test phase





The right balance between  
durability, beauty and  
environmental friendliness.





## > Our wood products



### LDCwood® | ThermoWood® Fraké

Fraké that has been thermally modified has a warm, nutty colour. The robust colour and distinctive lines make Fraké very distinctive as cladding and perfect for lovers of wood with character.

Durability class: 2



### LDCwood® | ThermoWood® Ayous

This wood species has a slightly more regular and rustic character. Ayous is closest to knot-free Western Red Cedar in appearance, density and workability.

Durability class: 1



### LDCwood® | ThermoWood® Spruce

Scandinavian Spruce is high-quality wood with a light colour and thin grain. This species grows slowly. Spruce is naturally susceptible to blue mould, wood rot and insect attack, but the ThermoWood® treatment solves this completely. The result is a durable, easy-to-work wood product with well-integrated small knots.

Durability class: 2





## LDCwood® | ThermoWood® Pine

Scandinavian Red Pine can be recognised by the pinkish lines running through the wood. There are lighter and more darker lines in the wood, which give it a lot of character - even after thermal treatment.

Durability class: 1



## LDCwood® | ThermoWood® Ash

Ash wood is generally quite strong and thanks to its higher density it has an excellent rigidity, hardness and impact resistance. These properties are only enhanced by heat treatment. Not only is treated Ash excellent to work with, it also has a very distinctive grain, character and colour.

Durability class: 2\*



## Lemahieu Douglas

Douglas wood, derived from the Douglas fir, is known for its natural beauty and durability. With its warm colour and characteristic grain pattern, Douglas wood adds a rustic and natural look to your project. Douglas wood is also known for its natural durability. The wood contains resins that make it naturally resistant to moisture, insects and decay, making it very suitable for outdoor applications.

Durability class: 3

\* in a test phase



## > What is ThermoWood®?

ThermoWood® is not a type of wood, but a patented treatment applied to non-durable wood types such as Spruce, Pine and Ash. The treatment is based on water and heat and is 100% natural.

Without any chemicals, thermal modification improves the properties of the wood such as: increased durability, better dimensional stability and reduced tendency to shrink and expand.

ThermoWood® is an eco-friendly alternative to tropical hardwoods such as Ipé and Padauk.

## > More about LDCwood®

LDCwood® is the Belgian market leader in the production of ThermoWood®. As a member of the International ThermoWood® Association, the standardised production process is identical to the Finnish process, which is the reference for all thermal treatments. LDCwood® only modifies certified wood from sustainably managed forests.







THERMOWOOD®

# PROTECTED BY NATURE



## 2 | THE PROFILE

There is more to it than just the type of wood when choosing timber for façades and wall cladding. The profile chosen plays an essential role in both the aesthetics and functionality of the end result. We list the most common profiles:

### > Rebated feather edge: timeless elegance



LDC JAMY

Rebated feather edge profile is a classic choice that offers both a timeless look and effective water drainage. This profile creates overlapping boards that direct water away from façades. The result is a traditional, rustic look that lends itself to both rustic and modern architecture.

### > Flat: sleek simplicity



LDC BANA

The flat profile is the right choice for a tighter, minimalist look. This profile creates a smooth and even surface with no protruding ridges or overlaps. The clean lines fit well with modern designs and can bring a sense of serenity and simplicity to the overall aesthetic.


### > Ribbed: extra dimension



LDC SKYLINE

For those looking for extra dimension and texture, the ribbed profile offers an excellent option. With striking grooves and ridges, this profile adds a playful element to the facade or wall. This variation in texture can create a contemporary and dynamic look, especially when combined with modern architecture.





Each profile tells a story  
and defines the personality  
of a building.



### 3 | THE COLOR



> **Shades of Grey**  
Even weathering from the start



> **The New Black**  
For a sleek architectural look in black



The intrinsic beauty  
of wood, upgraded for  
your living experience.



> **Natural Look**

Preserving the natural look of the wood



> **World of Colors**

A design statement by using color

## 3 | THE COLOR

### > Wax

- Protection against mould and algae
- Protection against UV
- Self-cleaning
- Water-repellent
- Semi-transparent to opaque colours
- No film-forming topcoat
- Vapour open

### > Stain/varnish

- Protection against mould and algae
- Protection against UV
- Semi-film-forming
- Semi-transparent to opaque colours
- Moisture-regulating

### > Oil

- Protection against mould and algae
- Protection against UV
- The wood structure remains clearly visible
- An extra layer can be applied for more intense colour
- No film-forming topcoat
- Vapour open

### > Coating

- Protection against mould and algae
- Protection against UV
- Avoids infiltration of water
- Covering
- (semi-) Film-forming
- Unlimited colour choice from RAL colour range





## > Even weathering from the start

If you like greying wood, then the 'Shades of Grey' collection is the ideal choice.

By greying the wood in advance, you avoid color differences in different facade orientations.

The coating's protective effect will also significantly reduce the appearance of drying circles and stains.







# Shades of Grey



## a | SHADES OF GREY > ESSENTIAL



### **ThermoWood® Spruce**

> Stain/varnish

> Brushed

TH-SPR-TS5101-B



### **ThermoWood® Spruce**

> Stain/varnish

TH-SPR-TS5001



### **ThermoWood® Pine**

> Stain/varnish

> Brushed

TH-PIN-TS5101-B



### **ThermoWood® Pine**

> Stain/varnish

TH-PIN-TS5001



### **ThermoWood® Ayous**

> Stain/varnish

> Brushed

TH-AYO-TS5101-B



### **ThermoWood® Fraké**

> Stain/varnish

> Brushed

TH-FRA-TS5101-B





**ThermoWood® Fraké**

> Stain/varnish

TH-FRA-TS5001



**ThermoWood® Ash**

> Stain/varnish

> Brushed

TH-ASH-TS5101-B



**ThermoWood® Ash**

> Stain/varnish

TH-ASH-TS5001



**ThermoWood® Spruce**

> Stain/varnish

> Brushed

TH-SPR-TS5102-B



**ThermoWood® Spruce**

> Stain/varnish

TH-SPR-TS5002



**ThermoWood® Pine**

> Stain/varnish

> Brushed

TH-PIN-TS5102-B

a | SHADES OF GREY > **ESSENTIAL**



**ThermoWood® Pine**

> Wax  
TH-PIN-TS5002



**ThermoWood® Ayous**

> Wax  
> Brushed  
TH-AYO-TS5102-B



**ThermoWood® Fraké**

> Wax  
TH-FRA-TS5102-B



**ThermoWood® Fraké**

> Wax  
TH-FRA-TS5002



**ThermoWood® Ash**


> Wax  
> Brushed  
TH-ASH-TS5104-B



**ThermoWood® Ash**

> Wax  
TH-ASH-TS5004





High-quality pigmentation  
ensures a beautiful,  
evenly weathered facade.



# b | THE NEW BLACK

## > Sleek architecture

Black is extremely trendy. Sleek architecture and longevity, a stylish and timeless character... This collection has it all. You can combine it with numerous facade styles.





# The New Black





b | THE NEW BLACK > ESSENTIAL



**ThermoWood® Spruce**

- > Stain/varnish
- > Brushed

TH-SPR-TS6101-B



**ThermoWood® Spruce**

- > Stain/varnish
- TH-SPR-TS6001



**ThermoWood® Pine**

- > Stain/varnish
- > Brushed

TH-PIN-TS6101-B



**ThermoWood® Pine**

- > Stain/varnish
- TH-PIN-TS6001



**ThermoWood® Ayous**

- > Stain/varnish
- > Brushed

TH-AYO-TS6101-B



**ThermoWood® Fraké**

- > Stain/varnish
- > Brushed

TH-FRA-TS6101-B



**ThermoWood® Fraké**

> Stain/varnish

TH-FRA-TS6001



**ThermoWood® Ash**

> Stain/varnish

> Brushed

TH-ASH-TS6101-B



**ThermoWood® Ash**

> Stain/varnish

TH-ASH-TS6001



**Douglas**

> Stain/varnish

DOUGLA-TS6001

## c | NATURAL LOOK

### > Keeping the natural appearance of wood

By choosing the 'Natural Look' collection you retain the natural color of the wood. This warm, genuine, and timeless appearance complements any style of home.





# Natural Look

c | NATURAL LOOK > ESSENTIAL



**ThermoWood® Spruce**

- > Stain/varnish
- > Brushed

TH-SPR-TS7101-B



**ThermoWood® Pine**

- > Stain/varnish
- > Brushed

TH-PIN-TS7101-B



**ThermoWood® Ayous**

- > Stain/varnish
- > Brushed

TH-AYO-TS7101-B



**ThermoWood® Fraké**

- > Stain/varnish
- > Brushed

TH-FRA-TS7101-B



**ThermoWood® Fraké**

- > Stain/varnish

TH-FRA-TS7001



**ThermoWood® Ash**

- > Stain/varnish
- > Brushed

TH-ASH-TS7101-B





**ThermoWood® Ash**

> Stain/varnish

TH-ASH-TS7001

Preserving  
the warm  
look of wood.



U P G R A D E N A T U R E



c | NATURAL LOOK > **TRADITIONAL**



**ThermoWood® Spruce**

> Primer + oil

> Brushed

TH-SPR-TS7301-B



**ThermoWood® Spruce**

> Primer + oil

TH-SPR-TS7201



**ThermoWood® Pine**

> Primer + oil

> Brushed

TH-PIN-TS7301-B



**ThermoWood® Pine**

> Primer + oil

TH-PIN-TS7201



**ThermoWood® Ash**

> Primer + oil

> Brushed

TH-ASH-TS7303-B



**ThermoWood® Ash**

> Primer + oil

TH-ASH-TS7203



**ThermoWood® Ayous**

> Primer + oil

> Brushed

TH-AYO-TS7302-B



**ThermoWood® Fraké**

> Primer + oil

> Brushed

TH-FRA-TS7302-B



**ThermoWood® Fraké**

> Primer + oil

TH-FRA-TS7202

## > Unleash your creativity

A facade in color is a design statement, whether you go for a bright or slightly more subdued color.

The coating contains sufficient pigmentation to counteract natural greying. This finish provides the highest level of protection against all types of weather conditions.

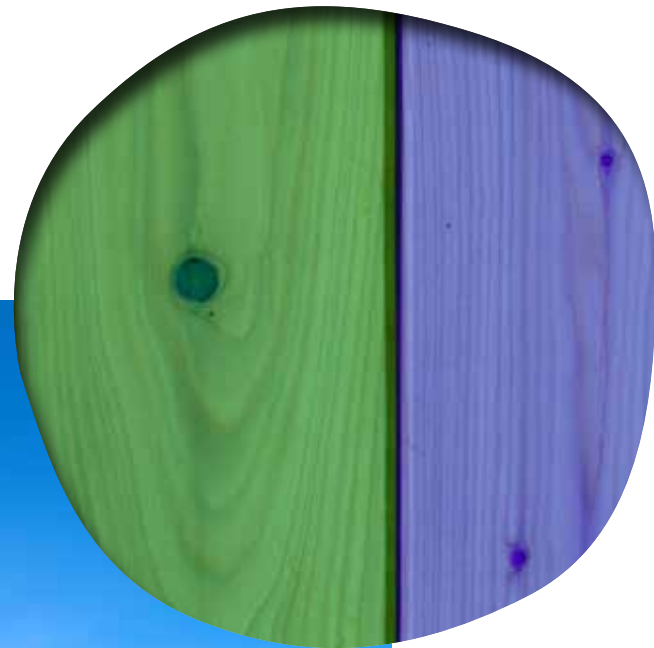
But how do you choose the most suitable color? What style are you aiming for with your facade?

Don't hesitate to reach out for additional information and color tips.

## > RAL colors

- > Ral color of your choice

- > Coating





# World of Colors

Unleash your creativity,  
it makes the world  
so much more colorful.



## 4 | BRUSHING

### > Brushing brings the texture of the wood to life.

Brushing wood removes the soft wood fibres and creates a rougher surface. This causes the pores of the wood to open up more, allowing the pigment to adhere better and deeper to the wood.

Brushing also offers nice aesthetic added value. Brushing also makes the wood more durable.



Brushed wood



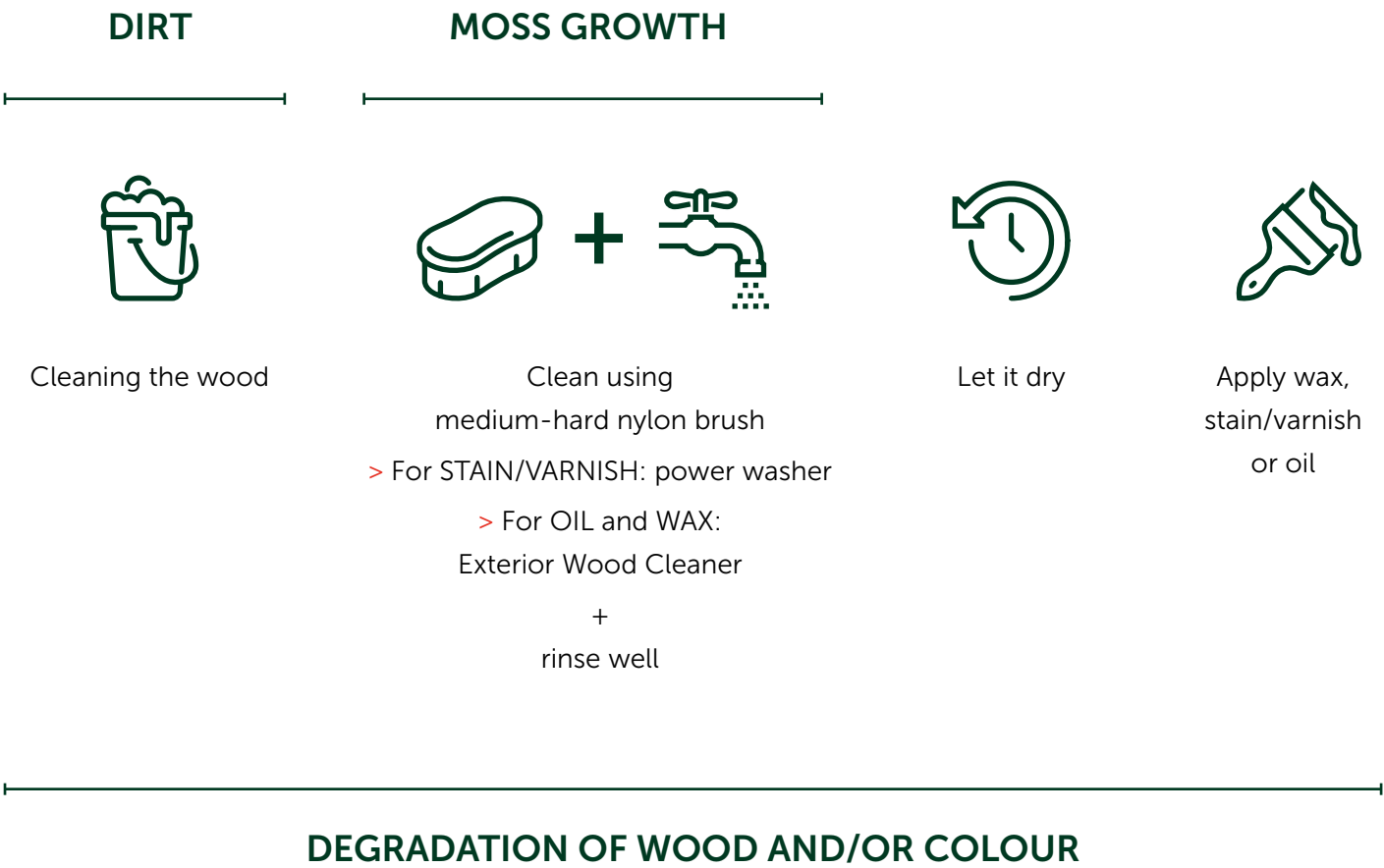
Unbrushed wood

To brush or  
not to brush?



# 5 | MAINTENANCE TIPS

Coated timber requires maintenance, depending on the circumstances and preferences.  
Below are some tips for basic maintenance of your coating in wax, stain or oil.



# Maintenance tips

> SHADES OF GREY

| Product code    | Type of wood       | Type of coating | Brushed | Durability class of wood according to EN 350-1 | Colourfastness <sup>1</sup> | Ease of maintenance <sup>2</sup> |
|-----------------|--------------------|-----------------|---------|--|-----------------------------|----------------------------------|
| TH-SPR-TS5101-B | ThermoWood® Spruce | stain/varnish   | yes     | 2  | ++                          | +++                              |
| TH-SPR-TS5001   | ThermoWood® Spruce | stain/varnish   | no      | 2  | ++                          | +++                              |
| TH-PIN-TS5101-B | ThermoWood® Pine   | stain/varnish   | yes     | 1  | ++                          | +++                              |
| TH-PIN-TS5001   | ThermoWood® Pine   | stain/varnish   | no      | 1  | ++                          | +++                              |
| TH-AYO-TS5101-B | ThermoWood® Ayous  | stain/varnish   | yes     | 1  | ++                          | +++                              |
| TH-FRA-TS5101-B | ThermoWood® Fraké  | stain/varnish   | yes     | 2  | ++                          | +++                              |
| TH-FRA-TS5001   | ThermoWood® Fraké  | stain/varnish   | no      | 2  | ++                          | +++                              |
| TH-ASH-TS5101-B | ThermoWood® Ash    | stain/varnish   | yes     | 2  | ++                          | +++                              |
| TH-ASH-TS5001   | ThermoWood® Ash    | stain/varnish   | no      | 2  | ++                          | +++                              |
| TH-SPR-TS5102-B | ThermoWood® Spruce | wax             | yes     | 2  | +                           | +++                              |
| TH-SPR-TS5002   | ThermoWood® Spruce | wax             | no      | 2  | +                           | +++                              |
| TH-PIN-TS5102-B | ThermoWood® Pine   | wax             | yes     | 1  | +                           | +++                              |
| TH-PIN-TS5002   | ThermoWood® Pine   | wax             | no      | 1  | +                           | +++                              |
| TH-AYO-TS5102-B | ThermoWood® Ayous  | wax             | yes     | 1  | +                           | +++                              |
| TH-FRA-TS5102-B | ThermoWood® Fraké  | wax             | yes     | 2  | +                           | +++                              |
| TH-FRA-TS5002   | ThermoWood® Fraké  | wax             | no      | 2  | +                           | +++                              |
| TH-ASH-TS5104-B | ThermoWood® Ash    | wax             | yes     | 2  | +                           | +++                              |
| TH-ASH-TS5004   | ThermoWood® Ash    | wax             | no      | 2  | +                           | +++                              |

<sup>1</sup>An even transition from pre-greying to natural greying due to weathering.  
<sup>2</sup> The frequency of implementation is depends greatly on wood type, location and orientation.

Durability class of wood according to EN 350-1

- > 1 (very durable: lifespan: 25 years or more)
- > 2 (durable: lifespan between 15 and 25 years)
- > 3 (moderately durable: lifespan between 10 and 15 years)

Colourfastness / Ease of maintenance

- > +++ good
- > ++ moderate
- > + limited



> THE NEW BLACK

| Product code    | Type of wood       | Type of coating | Brushed | Durability class of wood according to EN 350-1 | Colourfastness <sup>1</sup> | Ease of maintenance <sup>2</sup> |
|-----------------|--------------------|-----------------|---------|--|-----------------------------|----------------------------------|
| TH-SPR-TS6101-B | ThermoWood® Spruce | stain/varnish   | yes     | 2  | +++                         | +++                              |
| TH-SPR-TS6001   | ThermoWood® Spruce | stain/varnish   | yes     | 2  | +++                         | +++                              |
| TH-PIN-TS6101-B | ThermoWood® Pine   | stain/varnish   | yes     | 1  | +++                         | +++                              |
| TH-PIN-TS6001   | ThermoWood® Pine   | stain/varnish   | yes     | 1  | +++                         | +++                              |
| TH-AYO-TS6101-B | ThermoWood® Ayous  | stain/varnish   | yes     | 1  | +++                         | +++                              |
| TH-FRA-TS6101-B | ThermoWood® Fraké  | stain/varnish   | yes     | 2  | +++                         | +++                              |
| TH-FRA-TS6001   | ThermoWood® Fraké  | stain/varnish   | no      | 2  | +++                         | +++                              |
| TH-ASH-TS6101-B | ThermoWood® Spruce | stain/varnish   | yes     | 2  | +++                         | +++                              |
| TH-ASH-TS6001   | ThermoWood® Ash    | stain/varnish   | no      | 2  | +++                         | +++                              |
| DOUGLA-TS6001   | Douglas            | stain/varnish   | yes     | 3  | +++                         | +++                              |

> NATURAL LOOK

| Product code    | Type of wood       | Type of coating | Brushed | Durability class of wood according to EN 350-1 | Colourfastness <sup>1</sup> | Ease of maintenance <sup>2</sup> |
|-----------------|--------------------|-----------------|---------|--|-----------------------------|----------------------------------|
| TH-SPR-TS7101-B | ThermoWood® Spruce | stain/varnish   | yes     | 2  | ++                          | ++                               |
| TH-PIN-TS7101-B | ThermoWood® Pine   | stain/varnish   | yes     | 1  | ++                          | ++                               |
| TH-AYO-TS7101-B | ThermoWood® Ayous  | stain/varnish   | yes     | 1  | ++                          | ++                               |
| TH-FRA-TS7101-B | ThermoWood® Fraké  | stain/varnish   | yes     | 2  | ++                          | ++                               |
| TH-FRA-TS7001   | ThermoWood® Fraké  | stain/varnish   | no      | 2  | ++                          | ++                               |
| TH-ASH-TS7101-B | ThermoWood® Ash    | stain/varnish   | yes     | 2  | ++                          | ++                               |
| TH-ASH-TS7001   | ThermoWood® Ash    | stain/varnish   | no      | 2  | ++                          | ++                               |
| TH-SPR-TS7301-B | ThermoWood® Spruce | primer + oil    | yes     | 2  | +++                         | +++                              |
| TH-SPR-TS7201   | ThermoWood® Spruce | primer + oil    | no      | 2  | +++                         | +++                              |
| TH-PIN-TS7301-B | ThermoWood® Pine   | primer + oil    | yes     | 1  | +++                         | +++                              |
| TH-PIN-TS7201   | ThermoWood® Pine   | primer + oil    | no      | 1  | +++                         | +++                              |
| TH-ASH-TS7303-B | ThermoWood® Ash    | primer + oil    | yes     | 2  | +++                         | +++                              |
| TH-ASH-TS7203   | ThermoWood® Ash    | primer + oil    | no      | 2  | +++                         | +++                              |
| TH-AYO-TS7302-B | ThermoWood® Ayous  | primer + oil    | yes     | 1  | +++                         | +++                              |
| TH-FRA-TS7302-B | ThermoWood® Fraké  | primer + oil    | yes     | 2  | +++                         | +++                              |
| TH-FRA-TS7202   | ThermoWood® Fraké  | primer + oil    | no      | 2  | +++                         | +++                              |

## > About Lemahieu Group

At Lemahieu Group, "wood" is at the heart of everything we create. Our baseline demonstrates our respect for this natural product and our mission to broaden its use in an environmentally friendly and sustainable way. We have been importing, processing and preserving for the timber trade and the timber processing industry since 1932.

Knowledge of wood and craftsmanship are the foundation of **LEMAHIEU** products. Innovation, quality and customisation are at the core of our machinery and ensure an ever innovative product range. We offer solutions for construction, facade, interior and exterior: sawing, planing, dipping, impregnation, fire-retardant treatment and CNC machining.

Besides standard panels, **LEMPAN** also offers special products such as Okoume plywood or MDF TRICOYA from MEDITE.

**LDCwood**® ThermoWood® is the Belgian market leader in the production of ThermoWood® and has been a member of the International ThermoWood® Association since its establishment in 2016.

**JenoWood** is our sales hub in the Netherlands for all our wood products.

We are all FSC® (C001899), PEFC (PEFC/07-31-24), OLB and ISO 14001 certified. Read our sustainable story on **lemahieu.be**

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[www.jenowood.nl](http://www.jenowood.nl)

CREATED BY NATURE  
REDEFINED BY  
LEMAHIEU GROUP







In collaboration with

**timfin**



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GROUP**