



**PLATOWOOD<sup>®</sup>**

THE ARCHITECT'S CHOICE





Platowood Pavilion, Arnhem (NL)  
An innovative showcase for our company  
Weeber architects  
Façade cladding  
Platowood Fraké



# PLATOWOOD

## The architect's choice

Platowood adds value to wood. Through a unique process using only heat and water from residual flows, we preserve fast-growing types of wood that naturally have a short lifespan. The excellent, dimensionally stable and aesthetic qualities that the wood takes on in this way, offers architects unlimited freedom of design. It can be applied indoors and outdoors in any climate. Wood by Platowood is fully recyclable and has a lifespan of at least 50 years, even without finishing work.

## Design with impact

Platowood is a pioneer in modifying wood and constantly developing to enable durable and innovative applications. By combining our knowledge, experience and love for wood, we enable architects and other clients to create designs with a lasting impact. This is achieved at our factory in the Netherlands, situated at the sustainable Industrial Park Kleefse Waard in Arnhem. In keeping close to the core and in conjunction with others, we are committed to a cleaner world and permanent carbon dioxide storage.



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Cover:  
W.I.N.D. House, Bergen (NL)  
UN Studio  
Façade cladding  
Platowood Fraké



# TYPES OF WOOD

Platowood uses three types of wood: Platowood Fraké, Platowood Spruce and Platowood Poplar. We only use fast-growing wood that comes from certified forests and thus contribute to the sustainable and responsible handling of this natural product. With our process we extend the lifespan to up to 50 years. Possible applications for our wood products are: roof and façade cladding, interiors, garden & landscaping, infrastructure.



## PLATOWOOD SPRUCE p 8

Vibrant and natural look, derived from certified North-European forests.

↑ Multifunctional Centre Plein 6, Noordwijk (NL)  
IAA Architecten  
Façade cladding  
Platowood Spruce



## PLATOWOOD FRAKÉ p 4

Sleek, stylish and an exotic look, derived from certified West-African forests.

↑ Beach houses, Cadzand-Bad (NL)  
MVSA Architects  
Façade cladding, durable frames, Blinds  
Platowood Fraké



## PLATOWOOD POPLAR p 12

Warm and peaceful look, derived from certified European forests.

↑ Monicahof Apartments, Utrecht (NL)  
Studio Ramin Visch  
Façade cladding  
Platowood Poplar  
FireProtect



# PLATOWOOD FRAKÉ

Fraké is a fast-growing type of wood from West Africa, which, in itself, only has very limited durability. Our process transforms this wood into a useful material that adds value. Platonising accentuates the subtle flame-like grain pattern that distinguishes this wood. Platowood Fraké has a warm and stylish look and the common pinstrips and pinholes give it a distinctive look.

Platowood Fraké is also most suitable for frames and doors (p 16) and patio areas.

Sustainability class: 1-2

“I don't know any other type of wood that has such a nice and warm initial color and also ages so beautifully and quickly.”

*Architect François Verhoeven*

Villa K340, The Hague (NL)  
François Verhoeven Architecten  
Façade cladding  
Platowood Fraké rough



Xaverianen Community Centre, Bruges (BE)  
POLO Architects  
Façade cladding and Columns  
Platowood Fraké



Residence, Eelderwolde (NL)  
Architectuurstudio SKA  
Façade cladding, Frames and Blinds  
Platowood Fraké





# PLATOWOOD SPRUCE

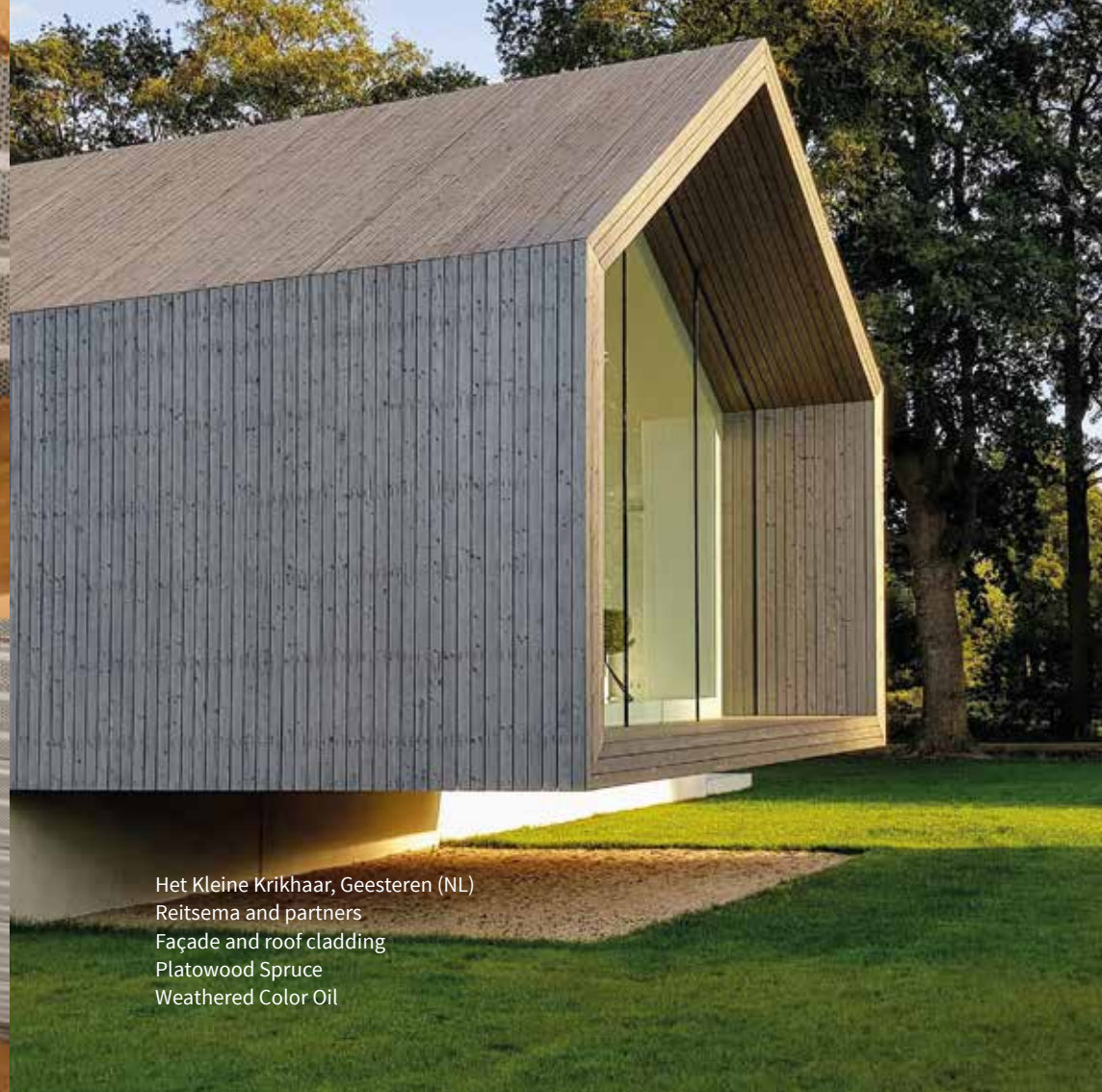
Platowood derives the coniferous Spruce wood from Scandinavia, where the wood, by nature, is already more robust than in Central Europe. By platonising spruce, it turns into an excellent and aesthetic wood product with very high dimensional stability. Typical of spruce, are the knots and possibly some small resin pockets and grain patterns. It makes Platowood Spruce a vibrant wood product.

Sustainability class: 1

Fontys campus Rachelsmolen, Eindhoven (NL)  
Façade cladding  
Platowood Spruce  
FireProtect







Het Kleine Krikhaar, Geesteren (NL)  
Reitsema and partners  
Façade and roof cladding  
Platowood Spruce  
Weathered Color Oil



Adventure House Scouting Estate, Zeewolde (NL)  
MOST Architecture + TOMDAVID Architecten  
Façade cladding and Interior  
Platowood Spruce



NIOO-KNAW, Wageningen (NL)  
Claus en Kaan Architecten  
Façade cladding and Interior  
Platowood Spruce  
FireProtect



# PLATOWOOD POPLAR

The European Poplar grows close to home. The even grain, light line patterns and refined color hues are distinctive for Platowood Poplar. Our process gives the wood a warm, golden tint. The wood product feels soft, is lightweight and has a peaceful look.

Sustainability class: 1

“We have consciously chosen Platowood because of its durable and circular character. Poplar has a warm color and an exceedingly nice and friendly look.”

*Architect Rob Janssen Bouwmeester*

Pinkeltje Day-care Centre, Voorburg (NL)  
Architect agency No Label  
Façade cladding  
Platowood Poplar





Villa, Okkenbroek (NL)  
Reitsema and partners  
Façade and roof cladding  
Platowood Poplar



City yard, Doesburg (NL)  
Façade cladding  
Platowood Poplar  
Weathered Color Oil



Monicahof Apartments, Utrecht (NL)  
Studio Ramin Visch  
Façade cladding  
Platowood Poplar  
FireProtect



# PLATOWOOD FRAME WOOD

Durable frames, windows and doors of high quality are made of platonised Fraké. As a result of our process, it is much more stable than other types of wood and we extend the lifespan to at least 50 years. Due to the dimensional stability of our frame wood, the architect has unlimited freedom of design and it is also suitable for floor-to-ceiling frames. Combined with Platowood Fraké façade cladding, a uniform architectural image is created.

## Ideal properties

We use finger joints and lamination to ensure an optimised product in easily processable lengths. This prevents any unnecessary wood losses. It can be applied without finishing work and ages nicely. Platowood Frame wood hardly shrinks and swells, has a high insulating value, is intrusion-resistant, and requires low-maintenance. A maintenance interval of up to 15 years is adequate. The frame wood is KOMO certified.



“I was looking for preserved wood that continues to look good without painting. Platowood is ideally suited to the strategy that we want to pursue in all projects: to use materials that are as crude and unprocessed as possible. I also think it's great to be able to make everything with Platowood.”

*Architect Rolf Reichardt*

Villa Ventura, Sint-Oedenrode (NL)  
RHAW architecture  
Frames and façade cladding  
Platowood Fraké and Platowood Spruce rough



Studio OOKarchitecten, Amersfoort (NL)  
OOKarchitecten  
Frames and doors  
Platowood Fraké



Klingelbeek Estate, Arnhem (NL)  
Dyvik Khalen Architects  
Frames  
Platowood Fraké



Het Platform, Amersfoort (NL)  
Space Encounters in collaboration with Schipper Bosch  
Frames and Façade cladding  
Platowood Fraké



# NATURAL AGEING

By platonising the wood it has a lifespan of at least 50 years and can also be used outdoors without applying finishing work. This means that this wood requires low-maintenance, but it is also fully recyclable. Good for People and our Planet. When exposed to the elements, the wood ages into a natural silver-grey tint, which is loved by many architects and users.

## Preservation of durable qualities

Ageing occurs due to the influence of sunlight, weather and wind. The course of the ageing process is therefore unique for every project. The common factor is that the wood weathers, without losing its durable qualities. Architects and clients often underline the fact that they allow the wood to age, because it re-emphasizes the natural appearance.



↓ Villa MG, Schiedam (NL)  
STATS Architecten  
Façade cladding  
Platowood Fraké

↑ Revis Lyceum, Doorn (NL)  
MoederscheimMoonen Architects  
Façade cladding and Interior  
Platowood Fraké  
FireProtect



“It was the first time we used wood from Platowood. The client wanted to use untreated wood, so we decided on Platowood Fraké, a beautiful and durable alternative to hardwood. Platowood wood is dimensionally stable and ages beautifully. It's the best preserved wood to be found.”

*Architect Ralph van de Donk*



# FINISHES



## WEATHERED COLOR

A pre-ager that ensures a smooth transition in the ageing process. The Weathered Color gradually degrades while the wood ages naturally in the meantime. Available in an oil and stain alternative.

↑ German War Cemetery, Ysselsteyn (NL)  
Novaedes Architecten  
incl. Façade cladding, Frames and Blinds  
Platowood Fraké  
Weathered Color Oil



## NATURAL COLOR

To retain the wood's warm color. Natural Color prevents the wood from ageing. Available in an oil and stain alternative.

↑ Hilversum Golf Club, Hilversum (NL)  
Bastiaan Jongerius Architecten in collaboration with Rappange & Partners Architecten  
and Oomen Ontwerpt  
Façade cladding, Interior and Blinds  
Platowood Fraké  
Natural Color Oil



## BURNED WOOD

A dark coloring with color fastness. Burned Wood gives the wood a rigorous and bold look. Available in an oil alternative.

↑ Villa, Noorden (NL)  
Väö architect & lab ng  
Façade cladding  
Platowood Fraké  
Burned Wood Oil



# FINISHES



## COLOR

An opaque coating system in all available RAL colors. Available in a stain alternative.

↑ Villa, Domburg (NL)  
ABCV Architectuur  
Façade cladding  
Platowood Fraké  
Color



## FIREPROTECT

An increasing number of projects require Euro fire classification B. Wood does not naturally comply with this, but when our FireProtect treatment is applied, it achieves this classification. The finishing work can be combined with the Weathered Color Stain.



← Floating Office, Rotterdam (NL)  
Powerhouse Company  
Façade cladding  
Platowood Spruce  
FireProtect + Weathered Color Stain

↑ Alfriston School, Buckinghamshire (UK)  
Duggan Morris Architects  
Façade and roof cladding  
Platowood Fraké  
FireProtect



# PLATONISING

Our 'platonising' (hydrothermal modification) process improves the qualities of wood. We do this in a completely environmentally-friendly way without chemical additives. After the process, the wood is extremely dimensionally stable and easily processable, making it suitable for the most innovative designs.

Platowood is the only company in the world that modifies wood in this sustainable way. The patented process takes place locally in our own factory in the Netherlands. In this way, we can guarantee the continuous quality of our wood products.



Steaming (hydrothermolysis)

## The process

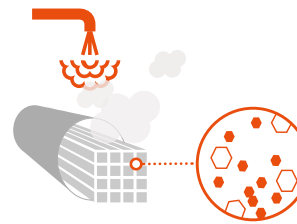
In simplistic terms, our process consists of three steps: steaming, drying and curing. The additional process step in relation to thermal modification renders the wood less brittle and gives it the Platowood quality.



Molecular structure of untreated wood

### Raw material

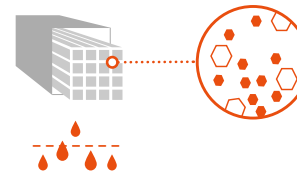
Fast-growing types of wood from sustainably managed, certified forests.



### Step 1

#### Steaming (hydrothermolysis)

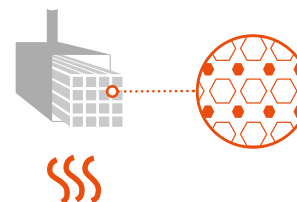
The wood is treated under pressure by hot steam in an autoclave. Naturally-present sugars – a culture medium for molds – are broken down.



### Step 2

#### Drying

After the hydrothermal treatment, the wood contains a lot of moisture. So, the wood is carefully and gradually dried in one of our drying kilns.



### Step 3

#### Curing

The wood is heated in the oven to 180 °C in a dry environment. New stable bonds come about in the wood. The relatively low temperature ensures that the wood remains strong and resilient after completion of the modification process.



### Result

Excellent, dimensionally stable and aesthetic wood for every design.



Villa K2, Eelderwolde (NL)  
Francois Verhoeven Architecten  
Façade cladding  
Platowood Fraké



Breezand beach houses, Vrouwenpolder (NL)  
WTS Architecten  
Façade cladding  
Platowood Fraké



Stories, Buiksloterham Amsterdam (NL)  
Olaf Gipsier Architects  
Façade cladding  
Platowood Spruce  
FireProtect + Weathered Color Stain





Bieduinen Residential Care Home, Putte (NL)  
Oomen Architecten  
Façade cladding  
Platowood Spruce

“The untreated wood relates to the surrounding nature and offers the inhabitants peace and tranquillity, which was a key starting point.”

*Architect Sander van Sambeek*

De Bocht, Amsterdam (NL)  
LEVS architecten  
Façade cladding  
Platowood Fraké  
FireProtect



# PROFILES



## Platonium 01 Channel siding

Dimensions (mm)	Effective dimension*	Fraké	Poplar	Spruce
18 x 90	75 + 4	✓	✓	✓
18 x 115	101 + 4	✓	✓	✓
18 x 140	125 + 4	✓	✓	✓
18 x 185	170 + 4	✓	✗	✓



## Platonium 02 Channel siding with false rebate

Dimensions (mm)	Effective dimension*	Fraké	Poplar	Spruce
18 x 115	101 + 4	✓	✓	✓
18 x 140	125 + 4	✓	✓	✓
18 x 185	170 + 4	✓	✗	✓



## Platonium 03 Rebated shiplap board

Dimensions (mm)	Effective dimension*	Fraké	Poplar	Spruce
18 x 140	125 + 4	✓	✓	✓

VIEW MORE  
PROJECTS AND  
APPLICATIONS AT  
PLATOWOOD.COM



### Platowood

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# PROFILES



**Platonium 01** Channel siding

Dimensions (mm)	Effective dimension*	Fraké	Poplar	Spruce
18 x 90	75 + 4	✓	✓	✓
18 x 115	101 + 4	✓	✓	✓
18 x 140	125 + 4	✓	✓	✓
18 x 185	170 + 4	✓	✗	✓



**Platonium 04** Rebated feather edge board

Dimensions (mm)	Effective dimension*	Fraké	Poplar	Spruce
9/20 x 140	125 + 4	✓	✗	✓
9/20 x 185	170 + 5	✓	✗	✓
13/26 x 185	170 + 5	✓	✗	✓



**Platonium 10** Castellated profile

Dimensions (mm)	Effective dimension*	Fraké	Poplar	Spruce
27 x 140	129 + 4	✓	✗	✓



**Platonium 02** Channel siding with false rebate

Dimensions (mm)	Effective dimension*	Fraké	Poplar	Spruce
18 x 115	101 + 4	✓	✓	✓
18 x 140	125 + 4	✓	✓	✓
18 x 185	170 + 4	✓	✗	✓



**Platonium 05** Planed on four sides

Dimensions (mm)	Fraké	Poplar	Spruce
18 x 52	✓	✓	✓
18 x 66	✓	✓	✓
18 x 90	✓	✓	✓
18 x 115	✓	✓	✓
18 x 140	✓	✓	✓
18 x 185	✓	✗	✓
27 x 140	✓	✗	✓
40 x 140	✓	✗	✓



**Platonium 16** Patio areas

Dimensions (mm)	Only in Fraké
27 x 140	✓



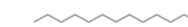
**Platonium 03** Rebated shiplap board

Dimensions (mm)	Effective dimension*	Fraké	Poplar	Spruce
18 x 140	125 + 4	✓	✓	✓



**Platonium 07** Rhombus

Dimensions (mm)	Fraké	Poplar	Spruce
18 x 66	✓	✓	✓
18 x 90	✓	✓	✓
18 x 115	✓	✓	✓
18 x 140	✓	✓	✓



**Do you have another profile in mind?**

Please contact us for the possibilities.

+ 31 88 60 500 60  
info@platowood.com

\* Effective dimension: the covering product size plus the clearance to be maintained when assembling.



## Together! for a sustainable economy

Platowood is part of Industrial Park Kleefse Waard (IPKW), the most sustainable business park in the Netherlands. It is not just any place, but a community with a mission: growing and innovating together in essential themes such as circularity and the raw materials transition. Together, we can fulfil our sustainability ambitions.



Dimensionally Stable



Easily Processable



Can be applied untreated



50-year lifespan



Fully recyclable



Without chemicals



Environmentally friendly



Up to 15-year guarantee



**How can we help you  
accomplish your project?**

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**PLATOWOOD®**