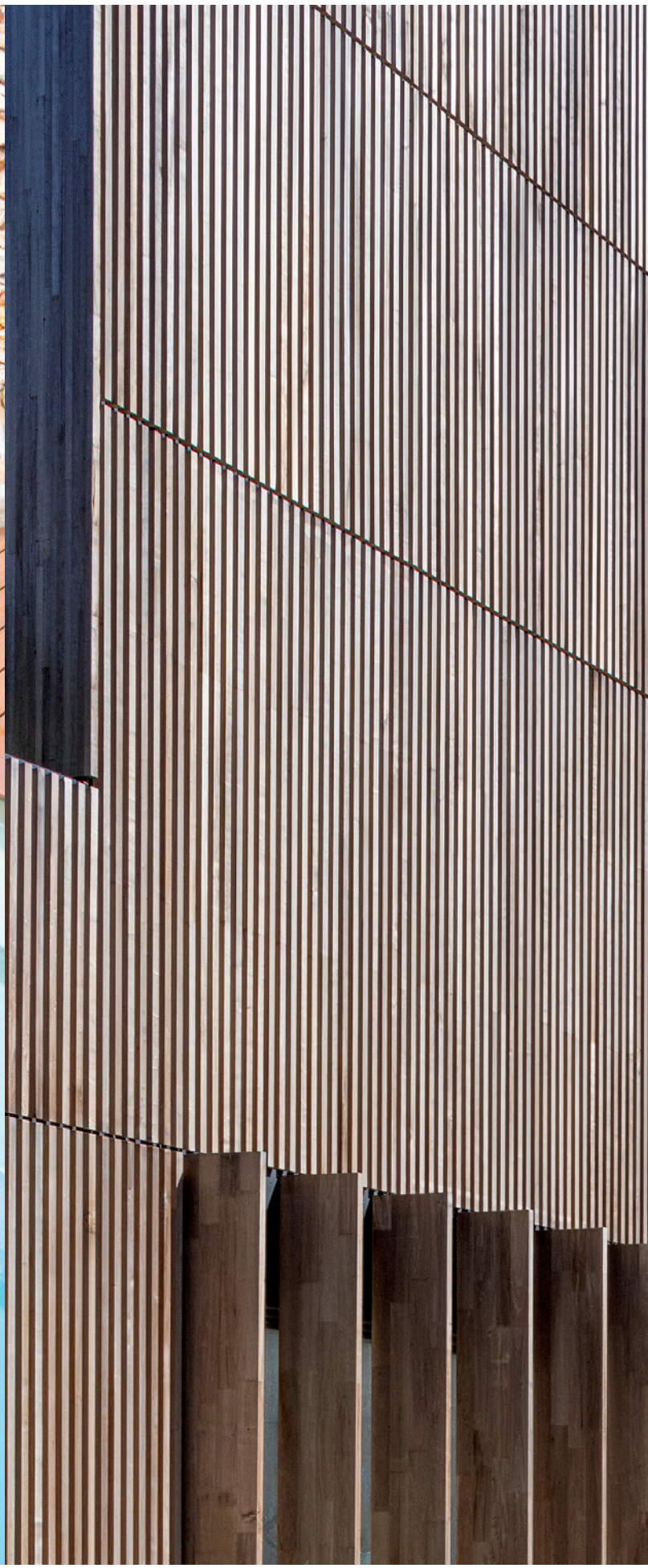
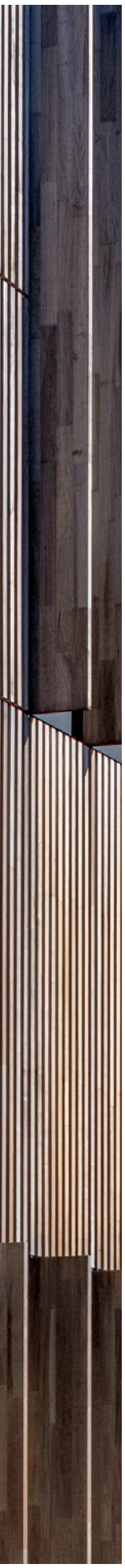
INSPIRATIONS CATALOGUE

Inspirations

Wood Cladding & Decking

DUCERF GROUPE





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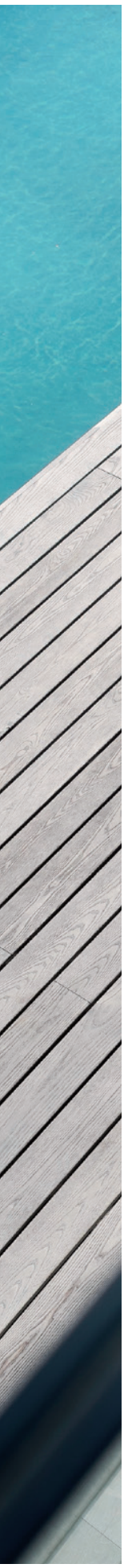


Editorial

Because wood has inspired us since 1885

Edouard Ducerf

CEO of Ducerf Group

// I am optimistic about the future of the wood industry and the wood construction sector. The trend toward more sustainable and environmentally friendly construction favors the use of wood, a renewable and ecological material.

We anticipate continued growth in demand for wood solutions in construction, furniture, and interior decoration.

To seize these opportunities, it will be crucial to innovate, guarantee supply sustainability, and promote the benefits of wood to consumers and professionals.

However, we must be realistic about the forest's capacity to produce to meet this growing demand, and therefore we must improve our processes not to produce more but to produce better while respecting available resources.

Wood has a key role to play in the transition to a greener and more sustainable economy, and we will do our utmost to support the market and our clients in this transition. \\

Our Commitments

Be a local and committed actor

Reduce our environmental footprint and act in favor of sustainable development

Guarantee customer satisfaction, offer innovative and quality products

Attract, develop and retain employees

Who are we?

Based in Burgundy, we have been sawyers and manufacturers of solid wood products since 1885.

We master the entire wood transformation process through our various production sites. Specialized in primary and secondary processing of hardwood, with oak as our main species, we offer technical and aesthetic solutions to professionals in development, merchants, industrialists, craftsmen, architects, landscapers... through a wide range of products.

Innovation and environmental commitment

Innovation is at the heart of our DNA. New solutions, custom products... Our company puts its expertise at the service of creation and its clients. Benefit from real long-term support and all our commercial expertise.

Concerned about the environment, the group adopts an eco-responsible approach daily.

Our Certifications

For many years, the Ducerf Group has developed with the constant concern of offering very high quality products while being part of an ecological and sustainable approach that preserves the environment, the sector's economy, and the well-being of future generations.

We have been committed to sustainable development for several years: Ducerf sawmill was the first French sawmill certified PEFC in 2002.

FSC www.fsc.org FSC® C002893 La marque de la gestion forestière responsable

PEFC 10-31-029 Promouvoir la gestion durable de la forêt www.pefc-france.org

FABRIQUÉ EN FRANCE

Solid wood products for sustainable architecture

Environmental Response

A renewable material belonging to the biosourced family, wood durably stores atmospheric carbon, thus contributing to the fight against the greenhouse effect, both during its growth and in its use as structural timber.

French forests offer a diversity of sustainably managed species that can be used as cladding. The use of local species, made possible by natural High Temperature Treatment (HTT), encourages the creation of added value on French territory, reduces transport, and favors short circuits.

Cladding and decking boards require little transformation, further reducing the carbon footprint and meeting RE2020 requirements. At end of life, boards can be reused or recycled, extending the beneficial effects of the product.

Durability and Aesthetics

Wood is an ideal choice for all your development projects. Some species like oak are naturally durable.

For species more sensitive to outdoor conditions, such as ash or poplar, we have chosen High Temperature Treatment, 100% natural with no chemical additives.

Our products require no maintenance, except if you wish to avoid graying. (see finishes page). It is important to anticipate this natural aesthetic evolution to make the right decisions upstream and consider maintenance frequency if deemed relevant. You can customize your projects according to your creativity.

Design also plays a crucial role in ensuring homogeneous and satisfactory evolution: cladding installation direction, roof overhangs presence, profiles used, etc. **To ensure work durability, it is essential to respect the rules of art stated in DTU 41.2.**

Environmental and Health Declaration Sheet

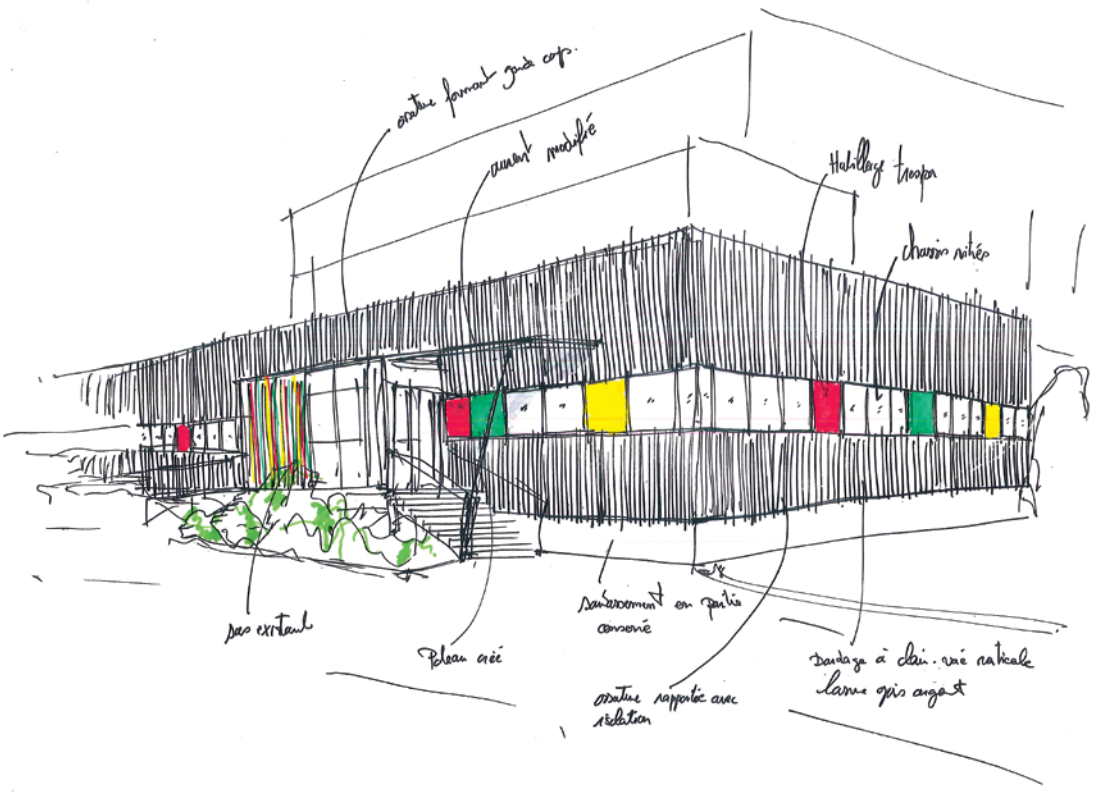
An Environmental and Health Declaration Sheet (FDES) is a type III environmental declaration according to ISO14025 standard. It contains Life Cycle Analysis results of a product as well as health information for calculating the environmental and health performance of buildings for their eco-design.

They constitute an irreplaceable tool for evaluating buildings' environmental performance.

Concerning our products, collective FDES produced by the National Wood Federation are available for download on the INIES database. These FDES are configurable for your projects on DE-boisdefrance.fr.

Ducerf Group Accompanies You

Our design office accompanies you in realizing your projects by providing technical, aesthetic, and economic solutions.



© Olivier Le Gallée Architecture / CETIC project

High Temperature Treatment Mastery

ThermoProcess is a wood treatment process by high-temperature heating. It causes modifications in wood characteristics that make it more stable and durable. The process also improves impermeability and modifies the wood's aesthetic appearance.

Over 15 Years of Experience

ThermoProcess implementation occurs in 3 precisely controlled stages using high-tech equipment:

1. Temperature Rise

The kiln rises very rapidly in temperature to reach 100°C with water vapor. Then, complete wood drying occurs during a more gradual temperature rise to 130°C. The superheated steam atmosphere with low oxygen content prevents cracks and affects reactions induced in the wood. At the end of this phase, wood moisture content tends toward 0%. Proper management of this stage is essential for wood transformation, and its duration depends on a combination of parameters such as: initial wood moisture content, species, and dimensions of treated lumber.

2. High Temperature Treatment

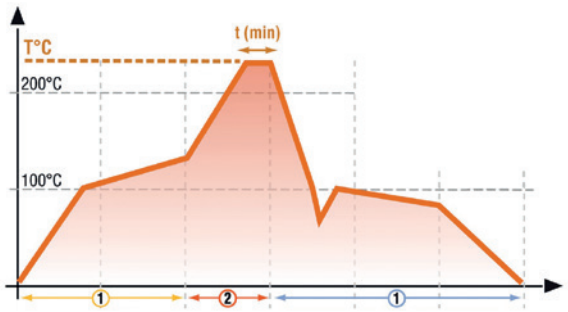
From approximately 150°C, modifications and transformations inside the wood occur. The kiln temperature is then brought between 160°C and 230°C depending on the desired treatment according to species and finished product use.

The selected temperature is maintained stably for +/- 2 hours, depending on desired characteristics. During this phase, precise installation control with, for example, water vapor input prevents wood carbonization.

3. Cooling and Re-humidification

During this final stage, temperature decrease inside the kiln is accompanied by cold water mist spraying. Slight moisture recovery in wood occurs from 90 to 80°C. A new short heating phase is then conducted to guarantee proper wood re-humidification (only for certain species sensitive to checking).

Depending on treatment conditions and desired characteristics, this phase lasts 5 to 15 hours.



4. Benefits

HTT treatment gives wood remarkable properties:

- Better resistance to fungal attacks and xylophagous insects
- Better dimensional stability
- Increased durability
- Equilibrium moisture reduced by approximately 50%
- New natural and homogeneous colors reminiscent of tropical woods
- 100% natural and easily recyclable material
- Reduction of extractives (tannins, resins)
- Suitable for gluing and receiving finishing products
- Increased wood stiffness
- Reduced breaking stress
- Volumetric mass reduced by approximately 10%

5. Species Characteristics

Species	Oak (excl. sapwood)	Oak HTT	Ash HTT	Poplar HTT	Acacia	Maritime Pine HTT	Douglas
Volumetric mass kg/m³	700 - 800	600 - 700	550 - 650	350 - 400	720 - 800	500	500
Young's Modulus MPa	12,500	14,250	19,000	10,000	13,600	11,000	11,100
Monnin Hardness	Semi-hard to hard (3<d<5N/mm)	Semi-hard wood (3<d<5N/mm)	Semi-hard wood (3<d<6N/mm)	Very soft wood (0,5<d<3N/mm)	Hard wood (5<d<9,5N/mm)	2,3 (soft wood)	2,5 (soft wood)
Stability	Average	Good	Good	Good	Poor	Average	Average
Fungal durability and use class:							
Class 3a	> 100 years	> 100 years	> 100 years	> 100 years	> 100 years	< 50 and 100 years >	< 50 and 100 years >
Class 3b	< 50 and 100 years >	< 50 and 100 years >	< 50 and 100 years >	< 50 and 100 years >	< 50 and 100 years >	< 50 and 100 years >	< 10 and 50 years>
Class 4	< 10 and 50 years>	< 10 and 50 years>	< 10 and 50 years>	< 10 and 50 years>	< 10 and 50 years>	< 10 and 50 years>	< à 10 years
Uses	Decking Cladding	Cladding	Decking Cladding	Cladding	Decking Cladding	Decking Cladding	Decking Cladding
Fixing Aptitude	Pre-drilling recommended	Pre-drilling recommended	Pre-drilling recommended	Pneumatic nailing	Pre-drilling recommended	Pre-drilling recommended	Pneumatic nailing

Partner

Our partner Bois Durables de Bourgogne is the only manufacturer certified CTB High Temperature Wood by FCBA for ash HTT lumber.

BOIS DURABLES DE BOURGOGNE — CTB CERTIFIÉ PAR FCBA BOIS HAUTE TEMPÉRATURE


We manufacture solid
local wood cladding
and decking boards
for all your interior
and exterior
development projects.

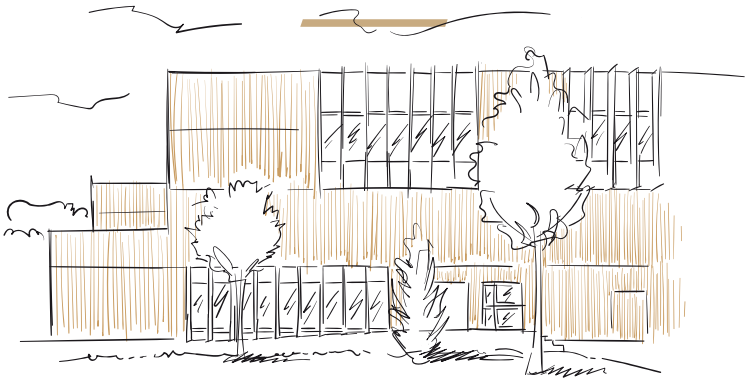
Buildings open to the public

Offices

Residential

© Viviane Poullin Architecte

Inspiration 1



Le Gallo sports complex

Ducerf poplar HTT cladding was prescribed for cladding the Le Gallo sports complex in Boulogne-Billancourt during its restructuring. The choice of poplar HTT harmonizes with other materials used and elegantly emphasizes the different structured spaces of this sports park.

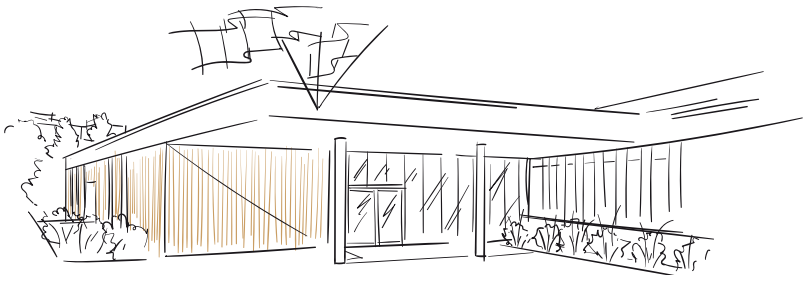
The massiveness of volumes and lightness of walls, the permanent play of solids and transparent spaces confer a certain serenity and wellness atmosphere.

Products:
Poplar HTT cladding, BARD 105 profile variant
and planed 4-face strips cut to length,
solid or glued laminated boards depending on sections.
Sections: 80 x 40 mm and 60 x 55 mm

Design and installation:
Bruno Mader Architects Office,
Cruard Charpente Constructions Bois

Photo credits:
Ducerf Group

Inspiration 2



Marie Curie school group

The complete restructuring and expansion of the Marie Curie school group in Saint-Germain-en-Laye is a good example of public achievement. For this project, hardwood cladding was prescribed, covering external thermal insulation. The choice was poplar HTT, which has many advantages for public constructions of this scale.

This pre-grayed wood combines aesthetics, durability, and performance, making it an ideal choice for projects that are both functional and environmentally friendly.

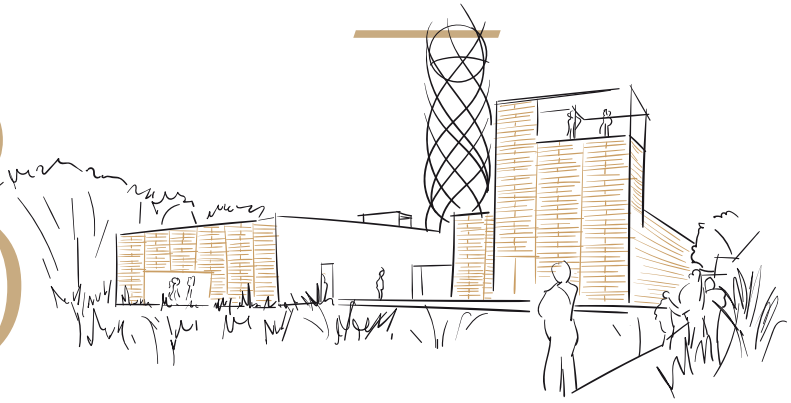
Products:
BARD 100 profile cladding in poplar HTT -
Ecological finish: Old wood gray
Sections: 65 mm width x 25 mm thickness

Project management:
City of St Germain-en-Laye (78)

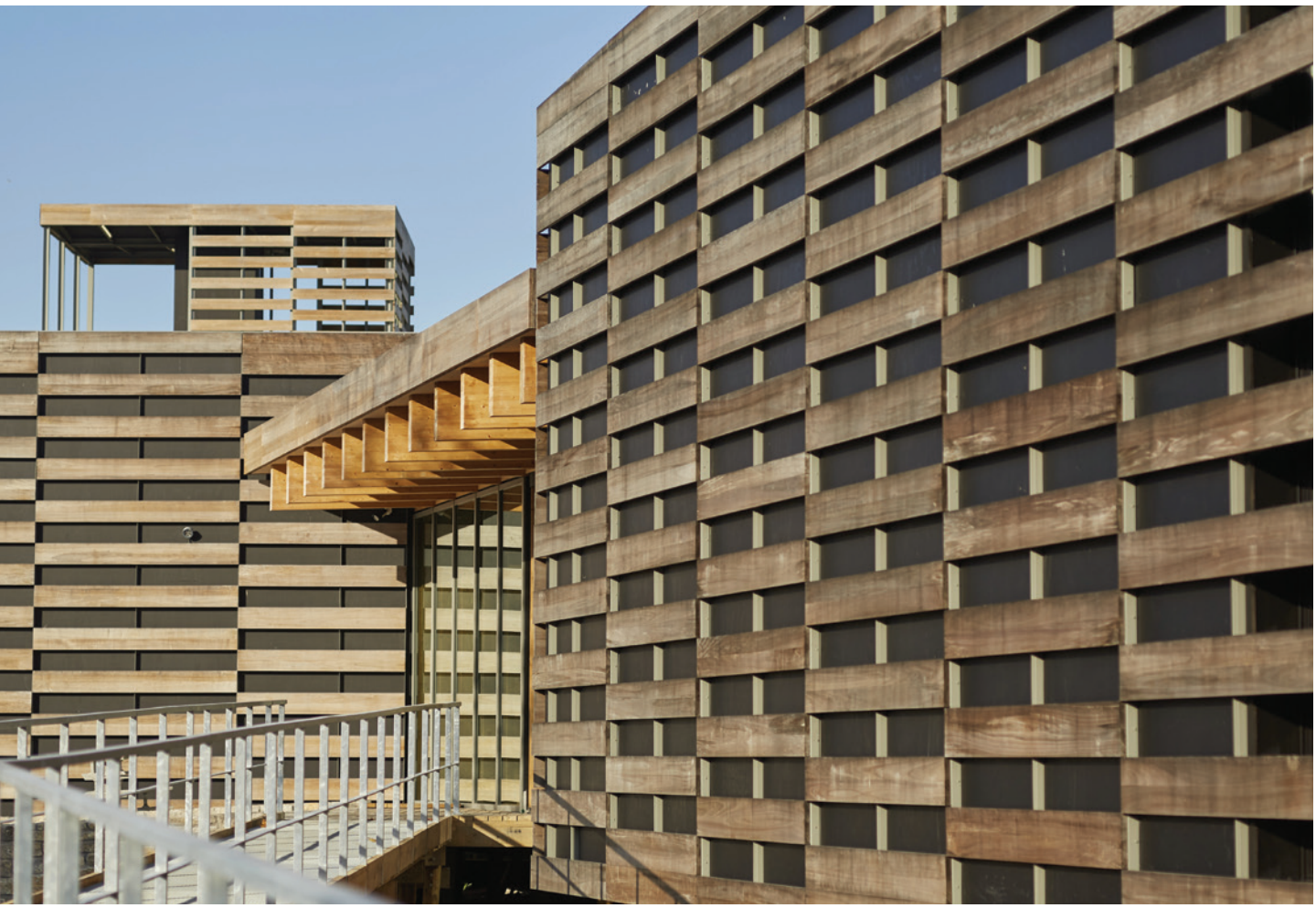
Architect design
Olivier Desaleux, Desaleux-Soares Associated Architects,
Paris 18th and Lusso & Laurent mandated Architects (93)
Cruard Charpente Constructions Bois

Installation:
Cruard Charpente Constructions Bois (53)

Inspiration 3



Terre d'Estuaire Center



The center was designed to resonate with nature, all development was thus designed to be respectful of the site. To adapt to the terrain nature, the building was constructed on stilts. The building's wood structure is spruce.

The arrangement of these decorative panels in alternating installation gives much lightness to the building and allows it to blend completely into its environment, not forgetting the warm side brought by wood. The installation choice of these poplar cladding boards creates a superb light play inside the building.

Ducerf Products:
Poplar A/B TH cladding

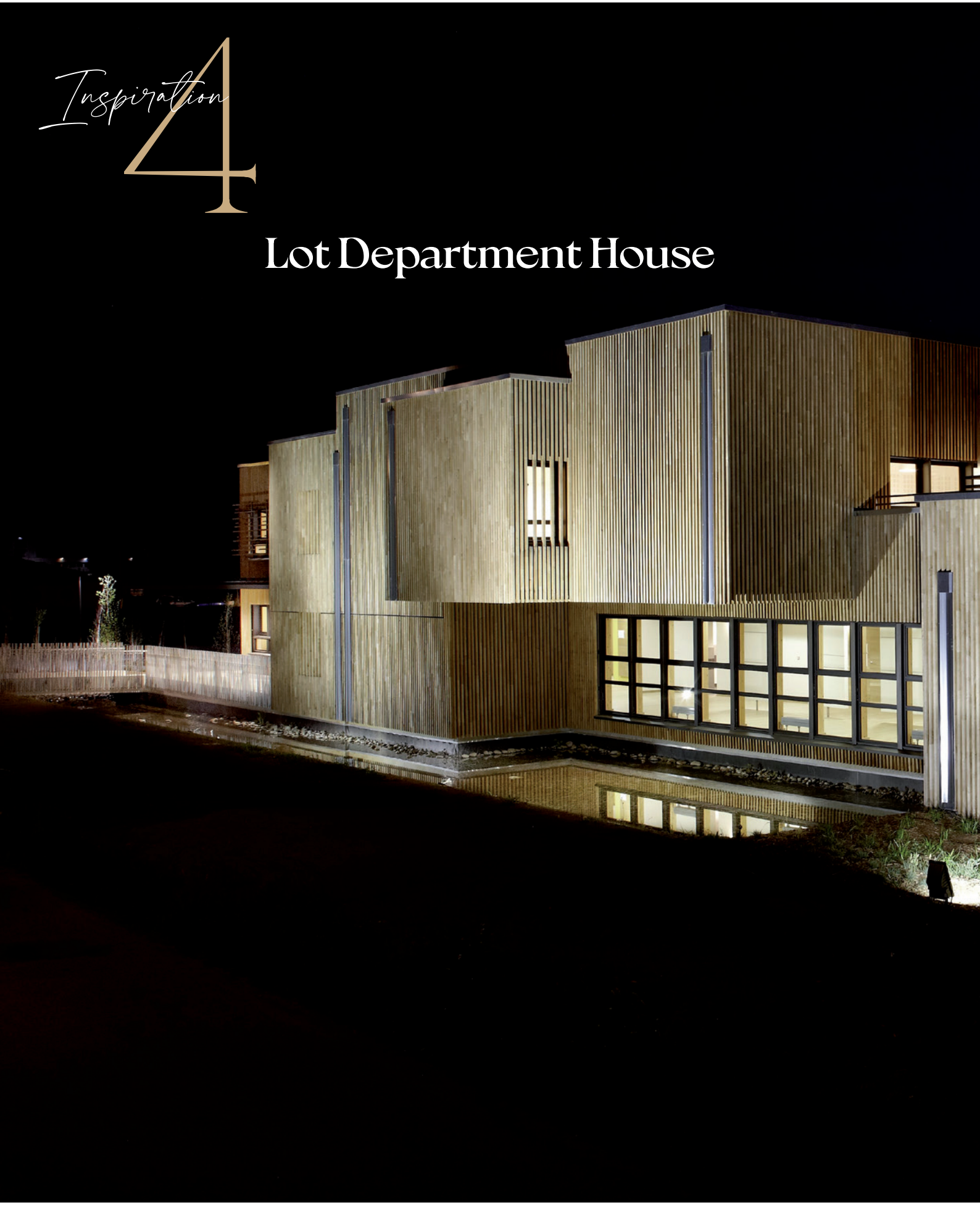
Design:
Bruno Mader Architects Office

Installer:
Cruard Charpente Constructions Bois – (53)

Photo credits:
Julien Gazeau – Hadrien Brunner – Aurelien Mahot – Terre d'estuaire

Inspiration 4

Lot Department House

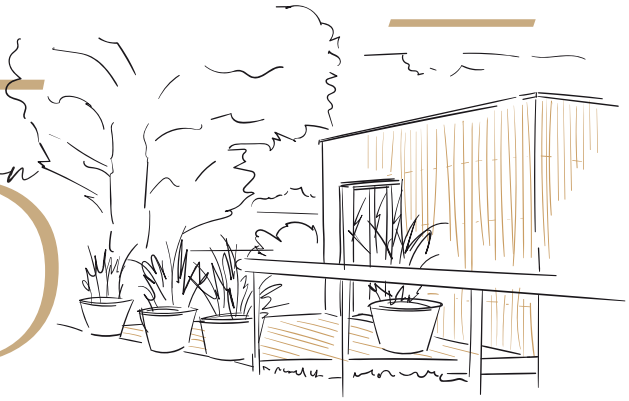


Products:
BARD 105 claire-voie type profile in natural oak joined

Architects:
phBa Agency – Philippe BERGES and Caroline LAFON Architects

Photo credits:
Nelly BLAYA – Lot General Council,
Philippe BERGES Architect

Inspiration 5



Haras de la Côte

Nestled in the heart of a preserved landscape, Haras de la Côte extends over 12 hectares. Between its two riding arenas, a wooden cottage was erected to welcome clients and guests during events. Entirely built in hardwood, poplar and thermo-treated ash, this project integrates harmoniously with the surrounding nature.

Its wood cladding and terrace combine aesthetics and environmental respect.

The facade and terrace, aging with elegance, take on a natural gray patina outside, contrasting with the warmth of chocolate cladding inside, thus reinforcing the charm and authenticity of the place.

Ducerf Products:
Ash HTT terrace and poplar HTT cladding

Project owner:
Laurent Guillet

Photo credits:
Claus Photography


Inspiration 6
Lucia Park

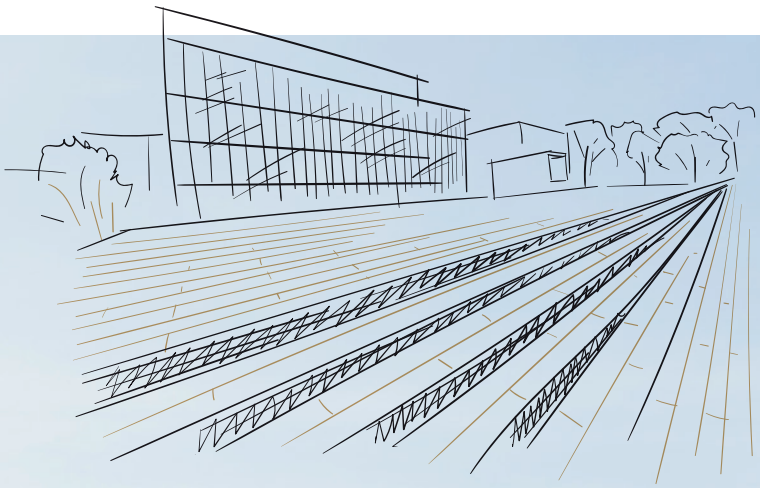
Park Lucia®, a magnificent site on the island of beauty Corsica where luxury rental villas blend into their environment. For the Casa Lucia owner and architect, the choice of wood was obvious for exterior development and respecting landscape balance. A little paradise!

High temperature treated wood cladding and decking boards are here subtly used to enhance volumes, harmonize with country stone or concrete parts, and accentuate the opposition of vertical/horizontal lines of the villa.

Products:
Ash HTT terrace smooth board profile B-Fix® – 21 mm x 140 mm – B-Fix® invisible fixing
BARD 104 poplar HTT cladding with Rubio Monocoat "Red Cedar" finish – 21 mm x 120 mm (110 visible width) – B-Fix® invisible fixing

Photo credits:
Park Lucia

Inspiration 7



Quinconces Terrace

In the heart of the historic city of Le Mans, a major project came to life, creating a 1,200 m² French ash wood terrace. This renovation project became necessary due to terrace deformation, which constituted a potential risk for the public and made access difficult for people with reduced mobility.

This wooden terrace is located behind the Quinconces cultural space in Le Mans. This project, much more than simple urban development, highlights wood's natural beauty and emphasizes the importance of its use in public spaces.

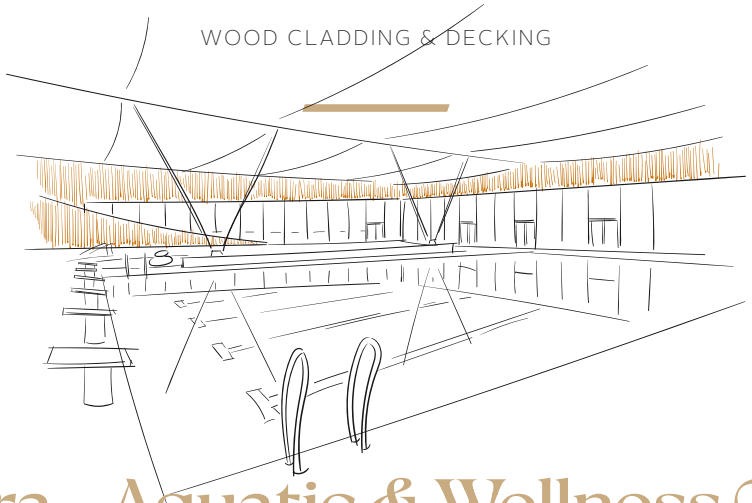
Products:
Ash HTT terrace, custom grooved profile

Project owner:
Le Mans Metropole Sustainable Management Direction, urban services and heritage, Architecture and Technical Services

Installer:
Dorize Charpente Couverture

Photo credits:
Paul Hamelin Photographer

Inspiration 8



Palestra – Aquatic & Wellness Center

The architecture firm sought a solution combining aesthetics and compliance with fire resistance requirements for aquatic and relaxation basin spaces. We met this challenge by integrating intumescent finishes, which improve wood cladding fire reaction.

Thanks to Fibex 2467 finish, our boards obtained M1 classification, thus meeting strict fire standards for a public establishment.

This claire-voie type cladding also offers remarkable acoustic comfort, reducing resonance to create a more peaceful atmosphere conducive to relaxation.

Products:
Oak and maritime pine batten cladding – Fibex 2467 intumescent finish

Project management:
Chaumont Agglomeration

Design:
Chabanne Architecture Agency

Photo credits:
Erwann Pencreach

Inspiration 9

Gautier Transports

The Gautier Transports (TCDA Group) headquarters project pushes the limits of traditional architecture by using wood cladding.

This bold choice offers a striking contrast with its environment and brings warmth and authenticity to the entire building.

Ducerf Product:
Poplar HTT cladding board

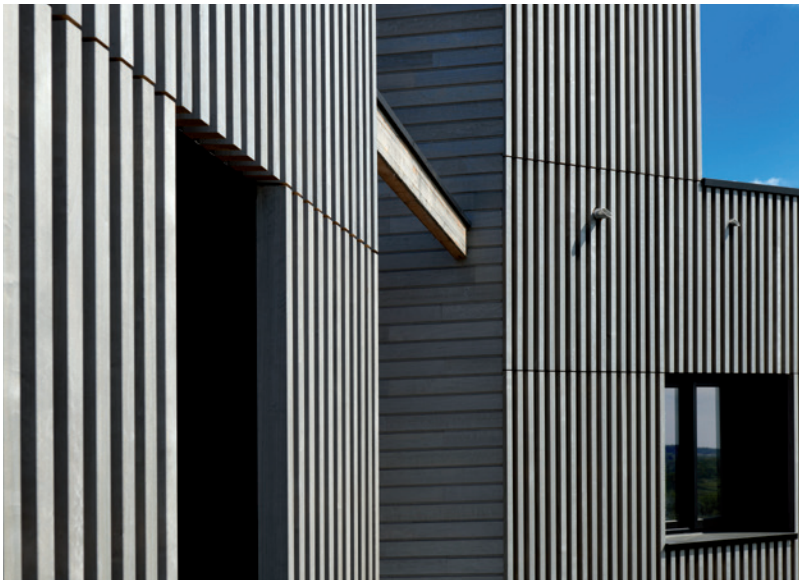
Design:
Architect Silvia Rio - La Fabrik d'architectures

Photo credits:
Christopher Guillou

Inspiration 10

ilicut

ILICUT, specialist in solid wood cutting and machining, marks a turning point with the inauguration of its new production site. The bold use of wood cladding offers this structure a unique design, combining aesthetics and technicality. Thanks to a varied selection of profiles and species, the facade comes alive, rhythmed by colors and installations alternating vertical and horizontal. Noble materials like poplar and ash, enhanced by elegant finishes, bring visual harmony, testifying to ILICUT's know-how and innovation in woodworking.



Products:
70x50 mm square battens planed 4 faces and 2 chamfers (Type BARD 105) in solid with old wood gray finish /
Poplar AB HTT cladding – Elegie Profile – 130 x 21 mm section with old wood gray finish /
Ash HTT cladding – Elegie Profile – 130 x 21 mm section with Rubio Monocoat IPE look oil finish

Design:
BBZ architecture (69)

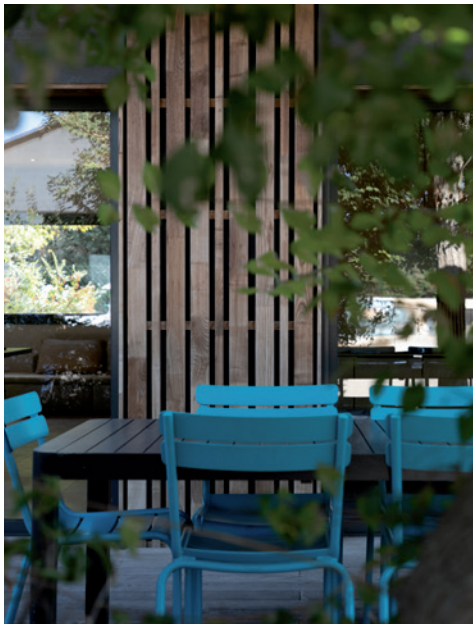
Photo credits:
Ilicut

Inspiration 11

Mistral Panels

Specialist in sustainable building solutions, Mistral Panels teams offer a quality alternative to traditional plaster or coating finishes. For their showroom they chose our ash HTT cladding and terraces. This wood finish choice is not limited to visual aspect, but also offers functional and ecological advantages.

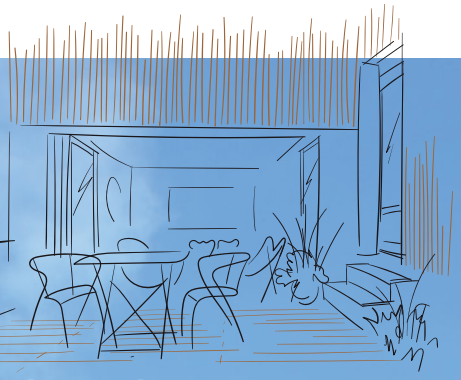
Here the use of ash HTT cladding boards in 3 different widths rhythms the facade and brings it a singular signature!



Products:
Ash HTT cladding and terrace

Project owner:
Mistral Panels

Photo credits:
Mathilde Lebreuil



Inspiration 12

Pré-St-Gervais individual House

For the renovation and expansion of this individual residence, poplar HTT cladding was chosen to instill a warm and intimate atmosphere to the exterior space. This material offers not only natural aesthetics but also increased durability thanks to its thermal treatment, making it particularly suitable for the region's climatic variations. The use of this both durable and elegant material shows a will to design thoughtfully, integrating modern elements while respecting the place's authenticity.

Products:
BARD 105 profile poplar HTT cladding
Sections: 65 x 20 mm, solid boards

Design:
Verdier & Rebière Architects I.Boulanger Architect

Photo credits:
Nicolas Fussler Photographer /
Verdier-Rebière Architects / I. Boulanger Architect

Inspiration 13

Ecological architect house

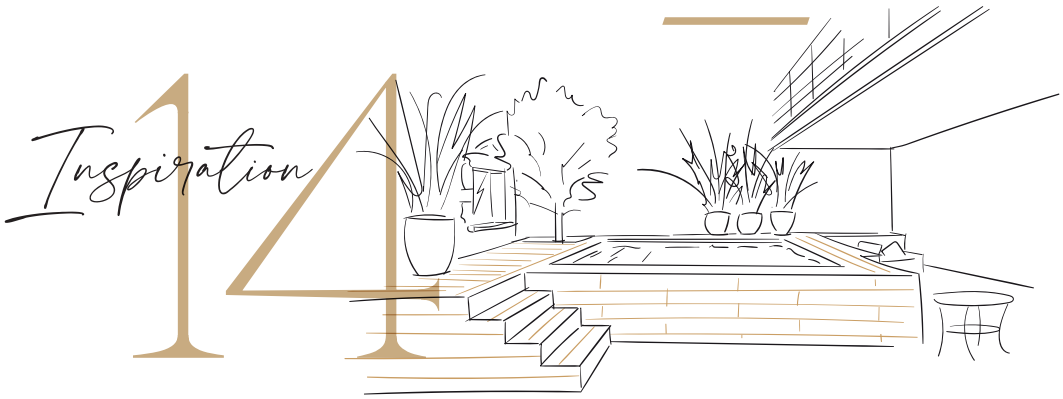
Architect Emeline Poulain and her partner undertook an ambitious life project on a Natura 2000 site, with a view of the Gironde estuary. Deeply committed ecologically, they wanted a house in perfect harmony with this exceptional environment, minimizing their ecological impact as much as possible.

Their vision: a house open to nature, built with local and French materials. We proposed our ash cladding, naturally treated at high temperature. This local hardwood, durable and resistant to insects and fungi, adapts perfectly to interior and exterior developments, while respecting their ecological values.

Products:
Ash HTT cladding, ash HTT panel shelves

Project owner and design:
Emeline Poulain – Ressources architecture

Photo credits:
Julia Hasse



Patio with swimming pool

How to create a warm atmosphere for relaxation moments and summer evenings with friends when you have little space?

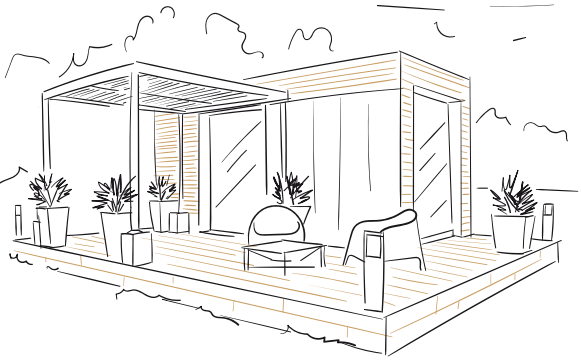
This is the challenge this individual met for his town house's interior courtyard in the heart of Cluny. The challenge was to preserve traditional stone walls, dress the pool, best arrange spaces, vegetate the place and enhance materials.

The choice was primarily a local hardwood species treated by high temperature for its technical, aesthetic and ecological advantages.

Products:
Ash HTT terrace boards Smooth face profile with invisible fixing, straight cut at end, continuous boards, 140x21mm section / Finish: IPE Look Saturabois®

Photo credits:
Piscinelle Project – Veronica Gloria

Inspiration 15



Lodges in Move

The company developing the "Lodges In Move" brand chose "BARD 106 CARBON finish" cladding as part of its activity renovating containers into eco-lodges. This black exterior wood cladding is durable and ecological. Thanks to its singular manufacturing process, it combines HTT treatment technique with Deep Black finish application.

This process highlights wood grain and rough sawing appearance, revealing reflections between deep black and ebony according to sun orientation.

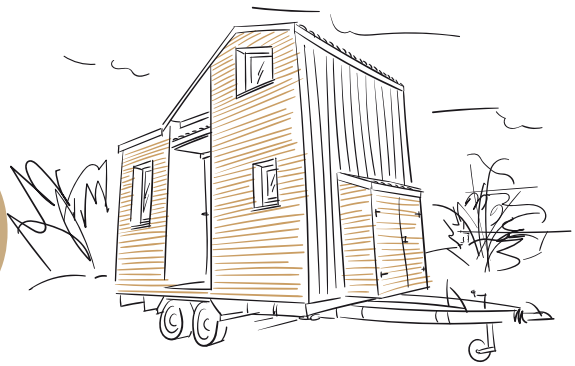
This poplar HTT profile is a real asset for architects as it adapts to all contemporary architectural designs.

Products:
BARD 106 CARBON poplar HTT profile cladding

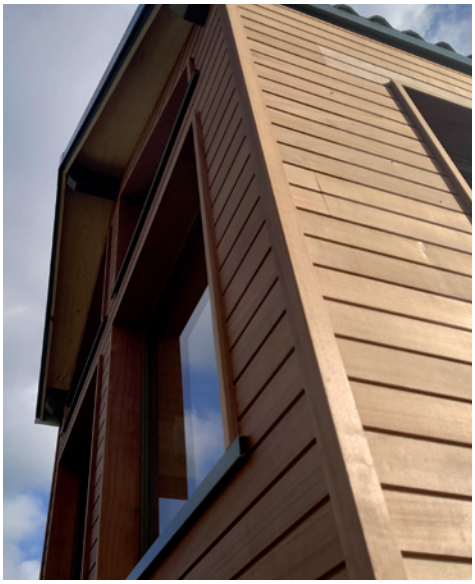
Project owner:
SAS COME – Emmanuel Mehu

Photo credits:
SAS COME – Lodges in Move

Inspiration 16



Tybivouac



Designer and manufacturer of nomadic and eco-responsible micro-habitats, TYBIVOUAC is above all a brand with strong identity.

This profile can respond to many project typologies but its lightness is its main advantage.

Products:
"Tiny house" profile cladding in poplar HTT

Designer and Manufacturer:
Tybivouac / Rodolphe Duranceau and Jimmy Lugaz.

Photo Credits:
Tybivouac

Inspiration 17

Various Oak decking

© Société Limeul-Dietmar Feichtinger Architectes

Oak's natural durability is particularly appreciated for this type of work. Our oak decking is acclaimed for manufacturing walkways, pontoons, terraces or public passages.

To meet all exterior development needs, they are available rough, planed or planed/grooved.

© AGPU Paysage & Urbanisme

© JY. Coudurier

© JY. Coudurier

© Charrier Bois

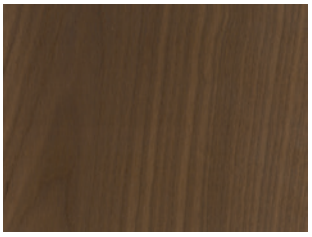
© Jérôme Aubanel

Products:
Rough oak decking

Cladding Profiles

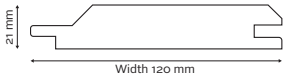
Oak QF2

Ash HTT A/B

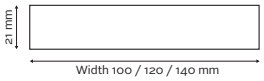


Poplar HTT A/B

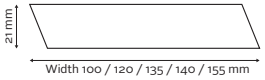
ELEGIE
Flat profile



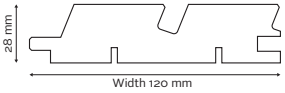
BARD 100
Flat profile



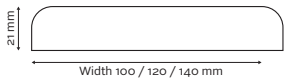
BARD 101
Parallelogram profile



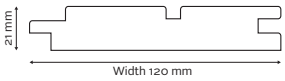
BARD 102
Claire-voie type profile



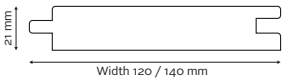
BARD 103
Rounded profile



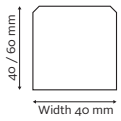
BARD 104
Vertical claire-voie type profile



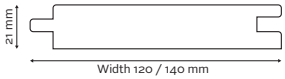
BARD 104 bis
Vertical profile



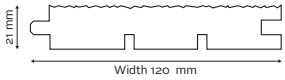
BARD 105
Rectangle profile



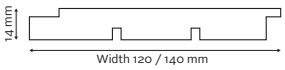
BARD 106 CARBON
Interlocking profile



BARD 107 TEXTURE
Interlocking profile



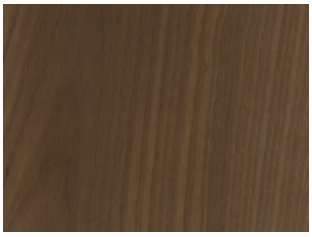
BARD TINY
Interlocking profile



Decking Profiles

Natural Oak

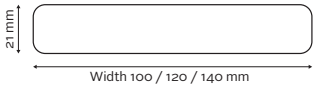
Ash HTT



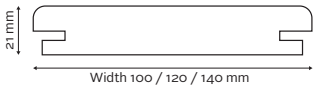
Natural Acacia

Smooth-faced decking board

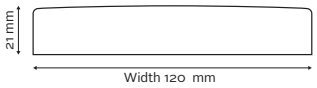
Grooved face board traditional fixing



Grooved face board invisible fixing B-Fix®

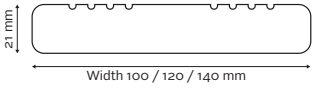


Curved board smooth face
(available in traditional or invisible fixing)

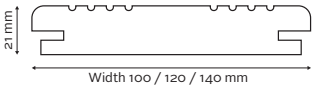


Grooved decking board

Grooved face board traditional fixing



Grooved face board invisible fixing B-Fix®

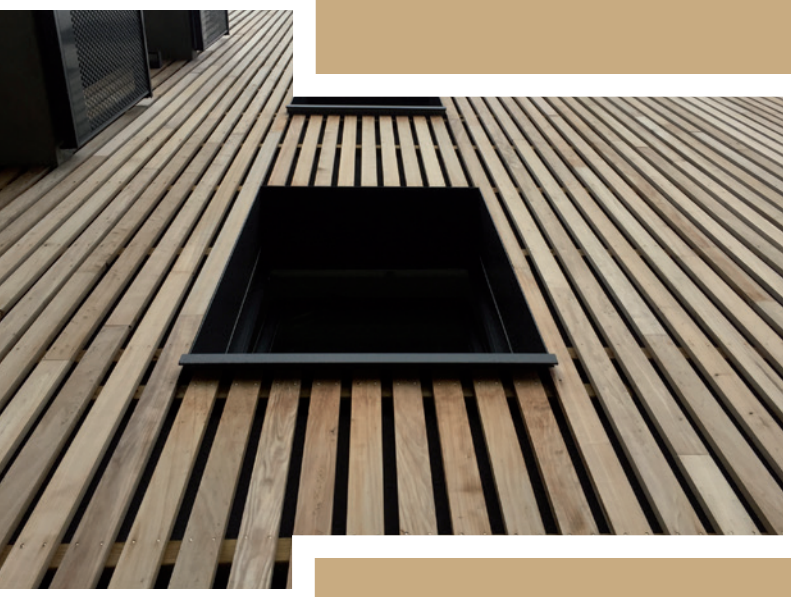


Project evolution?

Thanks to HTT treatment, cladding and decking boards will evolve toward a natural patina in very homogeneous gray tones.

What is wood graying?
Wood is a living material that evolves and patinates over time.

Whatever the species, natural resin contained in wood fades over time and takes on a gray tint. This is due to UV and weather, notably humidity. This does not alter wood quality and durability but gives it a silver-gray appearance.



3 solutions are available:

1. I want immediately grayed wood
2. I let the wood gray naturally
3. I want to preserve the original appearance or color it

Technical and aesthetic finishes

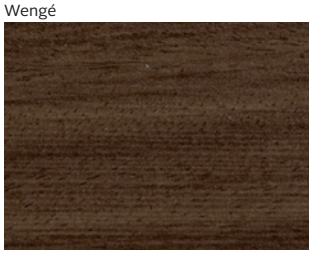
To meet your project needs, our products can receive technical and aesthetic finishes.

To maintain, protect or revive your exterior HTT woods, we offer a range of stains easy to implement, durable and easy to maintain. Manual application or via our service provider for a ready-to-use product

Examples of colors

sikkens
WOOD COATINGS

Here are some color examples, other shades are available, consult us to receive the complete color chart.

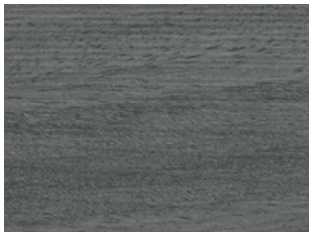

Wengé

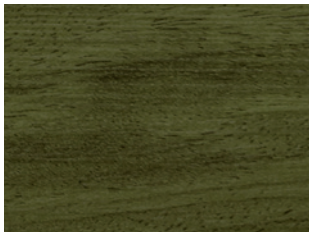

Sandstone


Rock


Concrete Grey


Cinnamon


Graphite


Forest Green


Rich Saffron

- In cladding, a maintenance coat from 3 to 5 years depending on exposure.
- In decking, a maintenance coat every 2 years maximum.

If wood is indeed combustible, it offers excellent fire performance compared to other construction materials. It notably has **a strong capacity to maintain its mechanical properties under fire effects**, ensuring great work stability. Wood has as assets very low thermal expansion and very low thermal conductivity. Moreover, unlike many other materials, wood releases 1500 times fewer toxic gases. It transmits heat 10 times slower than concrete and 250 times slower than steel.

Hardwood cladding boards with thickness > 18 mm are classified M3. In case of regulatory constraints concerning public establishments, **applying intumescent finishes is possible for interior use**. They improve cladding fire reaction by slowing flame progression. **This finish achieves M1 classification or B-s1,do in Euroclass**.

Inspirations

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