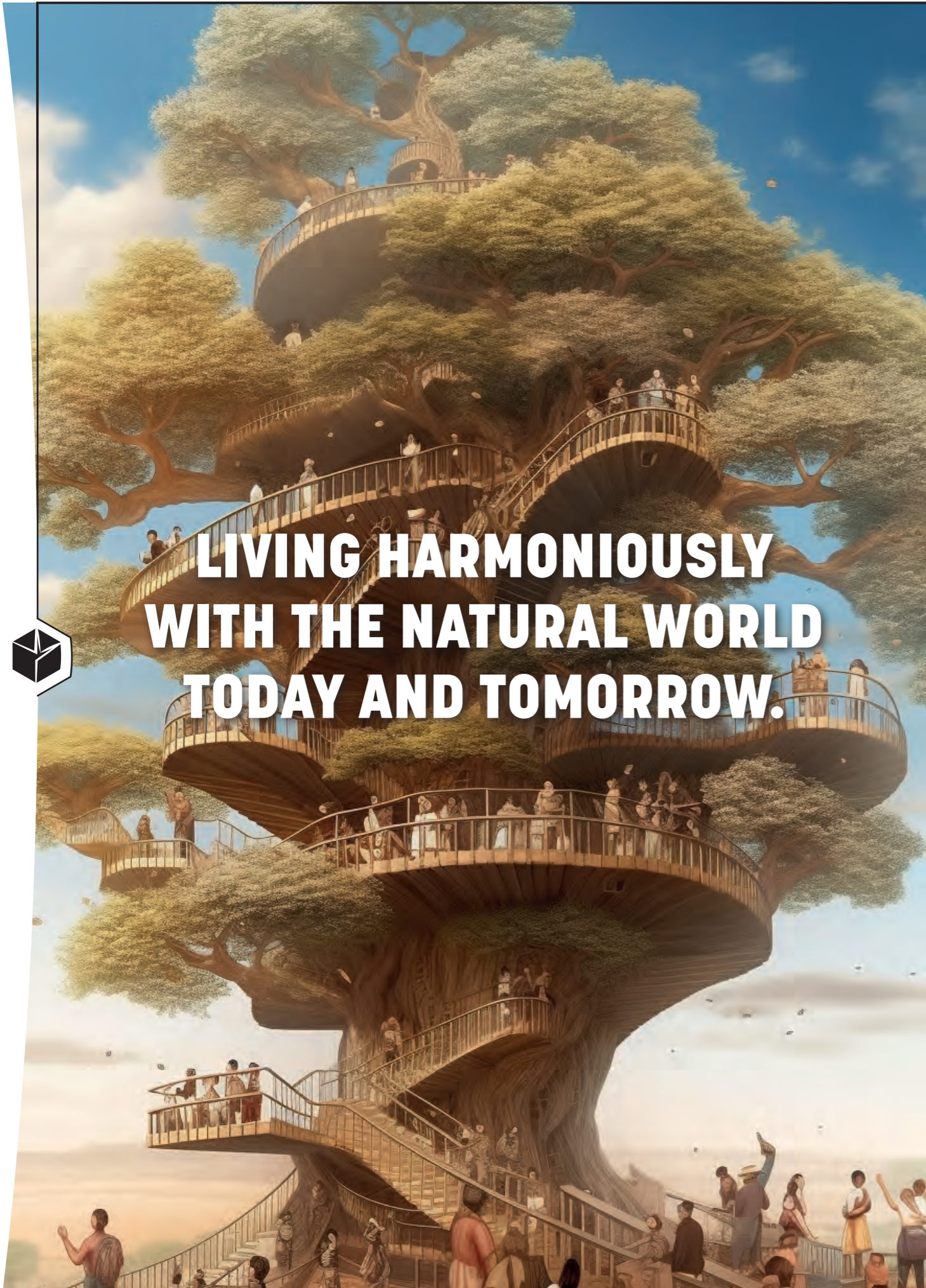


PROFESSIONAL'S GUIDE

WOOD **BUILDING** SOLUTIONS



SINBPLA
Depuis 1959



LIVING HARMONIOUSLY WITH THE NATURAL WORLD TODAY AND TOMORROW.



This image was generated using artificial intelligence. When we asked it about the visual interpretation of our purpose, it came up with this image: the tree at the centre, wood for living, and people living together in harmony with nature around them!

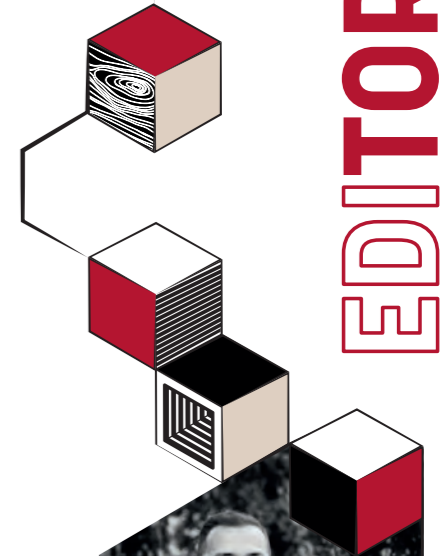
I'm certain of one thing: the future is wood and low carbon.

Wood is more than just a technical solution. It is the signature of environmental performance, with style. It's a low-carbon material that creates emotion and can be used to create projects that reflect your personality. In fact, we see it everywhere: furniture, hotel and restaurant fittings, buildings, decks, decorations, etc. It has become a real trend for a good reason: its performance means you can do more with less. Wood is therefore a responsible material that offers reliable, efficient and economically rational solutions.

Our aim is to use wood to provide affordable environmental solutions for your projects.

Our new Guides put the spotlight on an exceptional, low-carbon, high-quality offering that's right up to date with the times. The range is now divided into 'Timber Construction Solutions' and 'Design Timber Solutions'. These guides go further to offer the products and services you need: with more achievements, more arguments, more testimonials, more concrete information... to help you make the right choices.

I look forward to talking to you about them,



EDITORIAL



BENJAMIN BODET

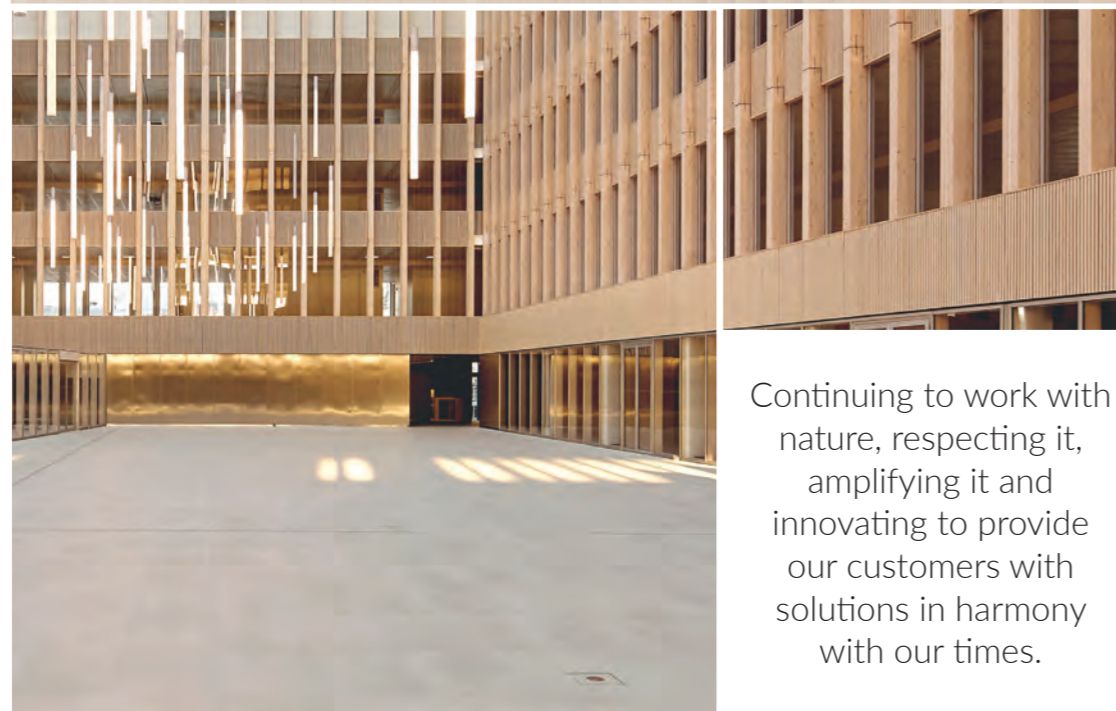
General Manager
ISB Group

FROM PINAULT TO ISB

1962. François Pinault founded Etablissements Pinault, specialising in northern woods. The company diversifies into timber processing and trading and becomes PBM.

2003. Pinault Bois Matériaux (PBM) was bought by the British group Wolseley.

2015. Management buy out Wolseley's timber business. ISB was born. The "Innovation et Solutions Bois" adventure begins.



Continuing to work with nature, respecting it, amplifying it and innovating to provide our customers with solutions in harmony with our times.

*2023 revenue and volume

BENCHMARK FOR WOOD & LOW CARBON

LOW CARBON FOR EVERYONE

A specialist in wood solutions in France, the ISB Group selects the best woods and manufactures reliable, sustainable products to provide low-carbon solutions tailored to the needs of the construction, design and industrial sectors. But above all, ISB is driven by its passion for wood. A natural, renewable, carbon-storing material that can be used for structures, cladding, furniture, packaging and formwork. A material that adds a subtle charm to people's living environment. A miraculous material!

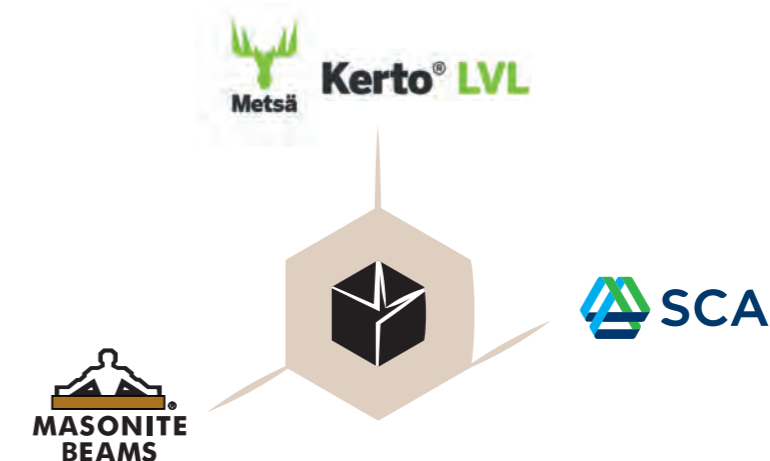
We are working to turn this material into products and then into solutions. Solutions that are technically efficient, naturally responsible and necessarily competitive. Because our ambition is to democratise these solutions, ensuring that tomorrow is wood and low-carbon.

Today, we bring together the best of the timber industry, from raw material to finished product, to offer you what you need, when you need it.

TWO BRANDS, EXCELLENCE PARTNERS, ONE GROUP

Two activities provide a comprehensive solution: **Sinbpla** selects and supplies high quality panels and timber for industry and Construction Solutions; **Silverwood** is a French manufacturer specialising in Interior and Exterior Design Solutions.

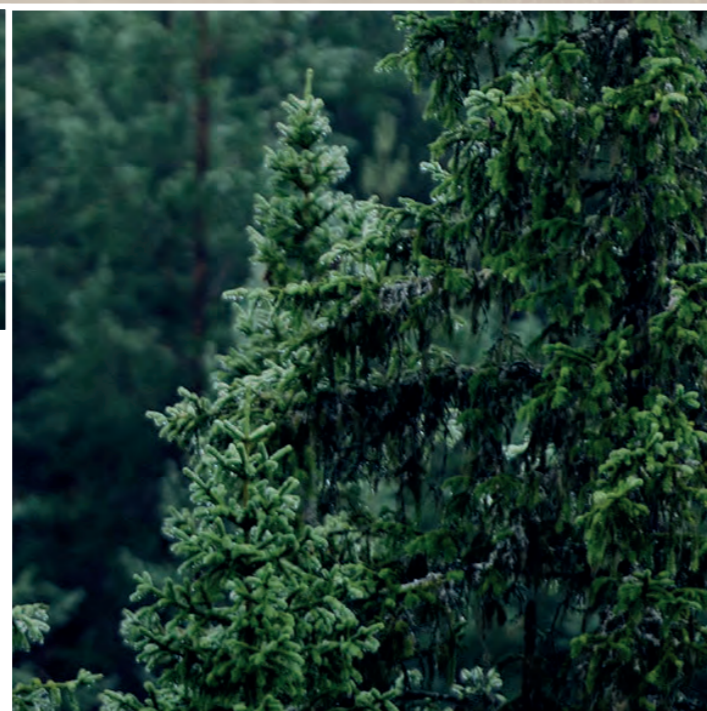
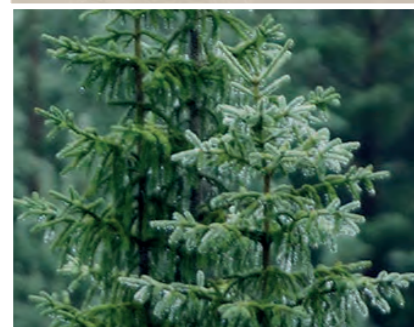
ISB draws upon partnerships of excellence with leading European manufacturers to offer the most comprehensive range of products. Here are a few examples: SCA, a Group shareholder since 2019, is an essential supplier of high-quality Northern wood. Metsä Wood, a specialist in lumber and engineered products, is distributed in France by ISB. Masonite Beams distributes its Swelite® I-beams exclusively through ISB.



HIGH ADDED VALUES

PROTECTING THE RESOURCE

Warnings about deforestation and the degradation of biodiversity are multiplying. Since 2007, the Group has redoubled its efforts to guarantee the integrity and responsibility of its wood supplies, anticipating the European Union's Wood Regulation by 3 years, which checks on the legality of wood.



As part of the Group's CSR Charter, the 17 SDGs** are subject to **continuous improvement and assessed annually.**

* Our certified products are available on request
**Sustainable Development Goals established by the UN (United Nations)

THE RIGHT WOOD

Wood is 'good': it grows, stores carbon and retains soil and water. It can also be processed using very little energy and has hundreds of uses... But there is no such thing as 'the right wood'. There are many types of wood with different properties: their density, hardness, mechanical properties, natural or imparted durability and appearance will determine their intended use. It's all about making the right choice.

The best species are selected in Europe and in France to offer products that are adapted to their use, but which above all know how to make their qualities (aesthetic, physical, mechanical, etc.) last for a long time.

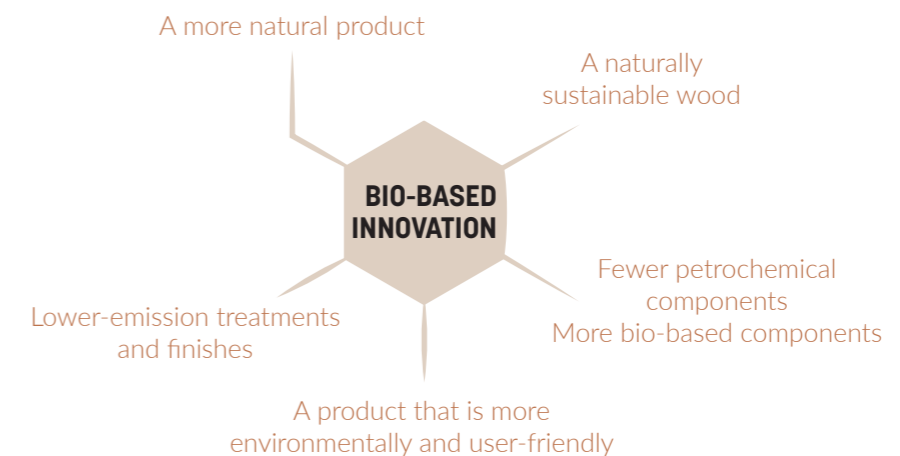
ISB timber and products meet strict requirements in terms of respect for the law and human rights, impact on the environment and biodiversity, and forest renewal.

HIGH PERFORMANCE/LOW IMPACT

Wood is an effective solution here and now for 'living in the world differently' and preserving the environment.

- 1/ Because it is a renewable material in a world where resources are becoming increasingly scarce.
- 2/ Because in order to grow, trees take up CO₂, release oxygen and store carbon.
- 3/ Because if we transform this tree into wood, then into a product, the carbon remains captive in the product.
- 4/ Because wood is a "naturally capable" material: it requires little processing to be fit for purpose. So little energy, so low carbon emissions.

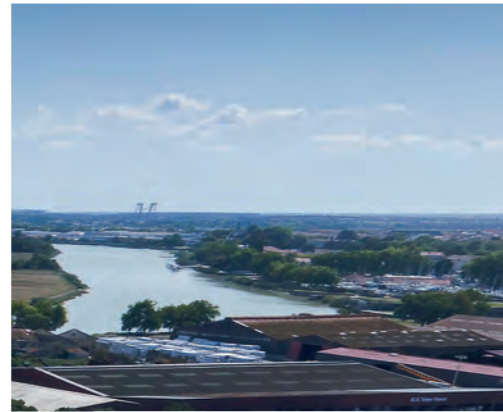
Better? The Group has adopted a CSR (Corporate Social Responsibility) Charter for 2022: responsible purchasing, low-carbon transport, employee safety, bio-based innovation, environmental impact, etc.



THE MEANS TO ACHIEVE YOUR AMBITIONS

ISB SITES

- 5 production sites
- 4 storage platforms
- 5 sales agencies
- 4 maritime supply sites



165,000
m³/year

of products processed in France

400
"ISBiens"

240
people

manufacture, store and deliver our products

ISB TOOLS

- 13 planing lines
- 7 autoclave stations
- 3 finishing lines
- 1 machining line for structural products
- 1 wood printing line



SKILLS AND KNOW-HOW

ISB Group's soul? 400 men and women who stand out for their expertise and know-how. Every day, they search for and find the wood, select, supply, store, transform the material, plane it, cut it, adapt it, pack it and deliver it to you. Better? They advise you and imagine what could be possible in the future to make our timber solutions even more profitable for you.

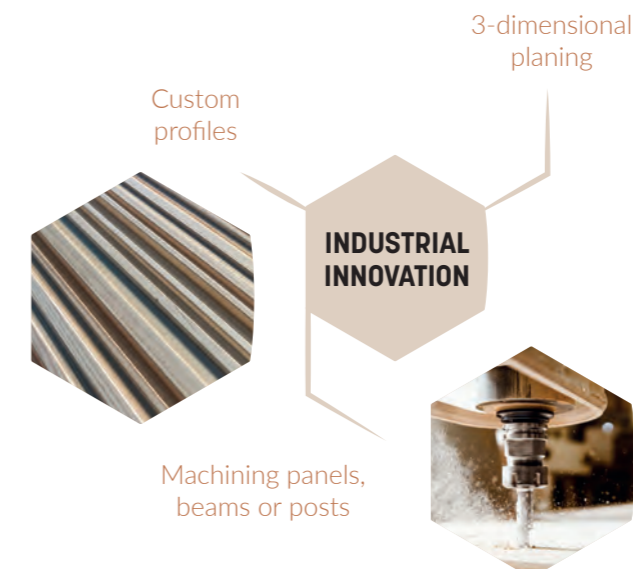
Purchasing, Production, Marketing, Sales, Communication and the Supply Chain bring together experts and enthusiasts of the wood industry to guide you, advise you and help you choose, understand and adapt a solution to your needs... right through to the project. They are your best partners.

Close to you, 70 talented people make up our sales and marketing teams: they are on the ground to meet your expectations.

INDUSTRIAL PERFORMANCE AND FRENCH QUALITY

All ISB Group sites are located in France. 5 factories manufacture the products in France. More than just a location, French manufacturing is a choice that guarantees a high level of quality and compliance with standards and regulations. In these factories, industrial capacity is constantly being improved to meet your expectations as closely as possible.

To meet your bespoke needs for landscaping solutions, the Moulit factory makes profiles to order, as well as patterns and textures for customised cladding, panelling, decking or fencing. For construction, the Honfleur factory offers hyper-adaptation of all timber structure products: edging, sizing, reservations, cutting of curved structures, preparation of assemblies... from product to solution.



CUSTOMISED SOLUTIONS

ISB offers intelligent solutions. What more do they offer? Expertise and skills: sourcing, logistics, together with advice, selection assistance, calculation, pre-sizing to find the right compromise, then the right price. And finally, to adapt to your needs.

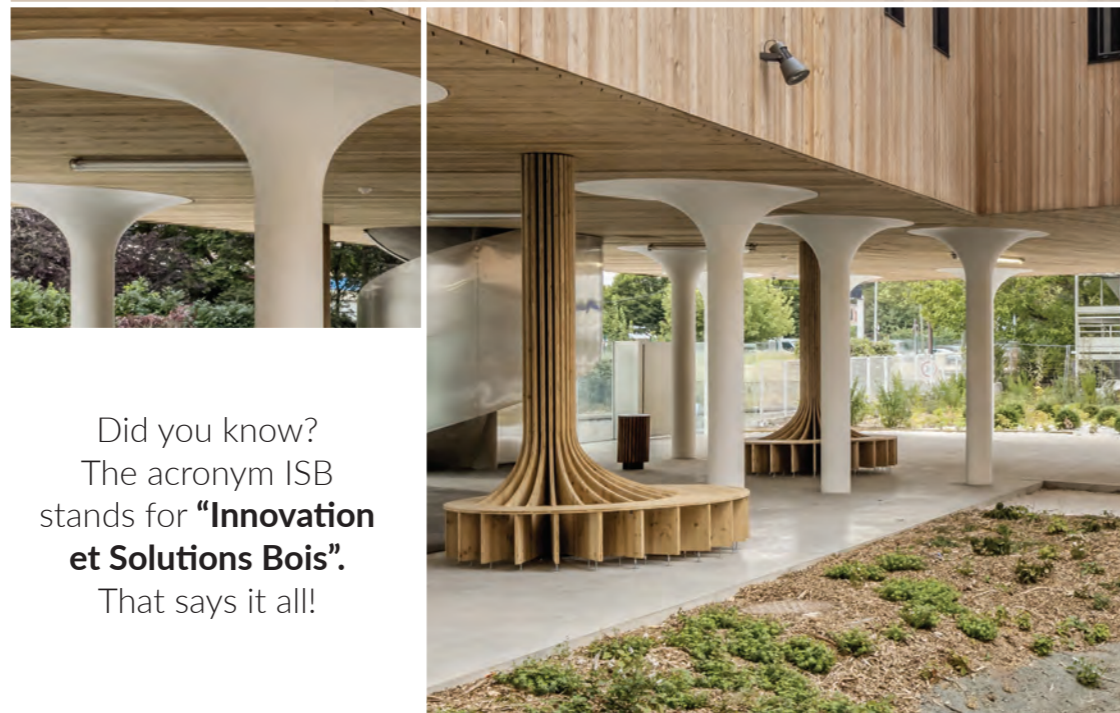


INNOVATION

Woodafix™
The new generation of decoration. A complete solution with wall panels that can be easily clipped together using the installation kit.

SOLUTION

Fire Solutions Guide
A guide to help you better understand the challenges of fire safety and help you choose a safe, compliant solution, whatever the project.



Did you know?
The acronym ISB stands for **“Innovation et Solutions Bois”**.
That says it all!

YOUR PROJECTS OUR SOLUTIONS

WOOD BUILDING SOLUTIONS

Sinbpla expertise enables ISB to offer the widest range of components available: Northern wood and French wood, wooden frameworks, structural products, joinery timber, carpentry timber, roofing timber and panels. In addition? Selection assistance, proposing variants, pre-dimensioning then machining: services and expertise **Sinbpla** transform products into tailor-made solutions.

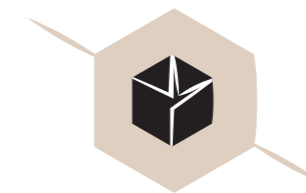
Every year, 260,000 m³ of timber and panels for Construction Solutions are sourced by our purchasing department and then stored on our logistics platforms.

A storage area of over 200,000 m² features 100,000 m³ of stock for Construction Solutions and 40,000 m³ of stock for Design Solutions. This will enable us to respond as closely as possible to site requirements, with maximum responsiveness.

WOOD LIVING SOLUTIONS

Specialist in planed products, **Silverwood** is the French manufacturer of Wood Solutions for interior and exterior design. Cladding, panelling and decking make up an extensive range, in which only sustainable, high-quality species are processed. More than just wood: treatments, finishes, colours, dimensions, standard or customised profiles, customisation, surface treatment, installation kits... are all possibilities offered by Design Solutions.


Treatment and finish products are progressing at ISB, where chemical components are gradually being replaced by bio-based molecules. The result is 3 new saturators and 2 treatment products that are more respectful of the environment and the user.



ROOFING FRAME JOINERY

A selection of high-performance woods to meet the requirements of both carpentry and joinery.


Northern Woods are renowned for their mechanical and physical qualities, which make them ideal for joinery, carpentry and roofing.

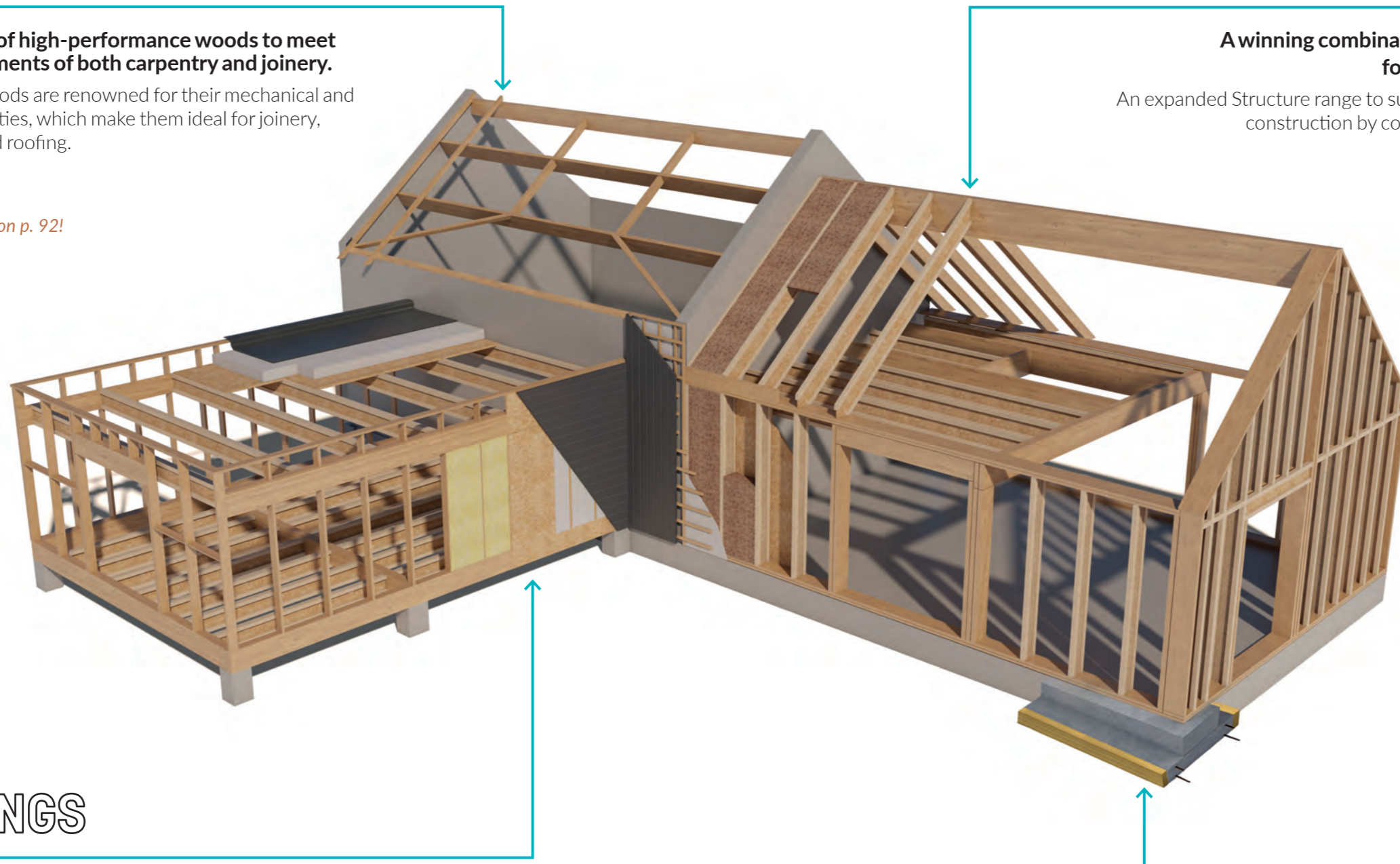
 See you on p. 92!

STRUCTURE

A winning combination of products and solutions for all timber structure projects!

An expanded Structure range to support the development of timber construction by combining complementary services.


 See you on p. 16!



FITTINGS

Let our team of specialists guide you to help you choose the right panel for the right use!


Sinbpla imports and markets a very wide range of plywood and panels for multiple uses: joinery, interior and exterior design, packaging, fittings, events, etc.

 See you on p. 42!

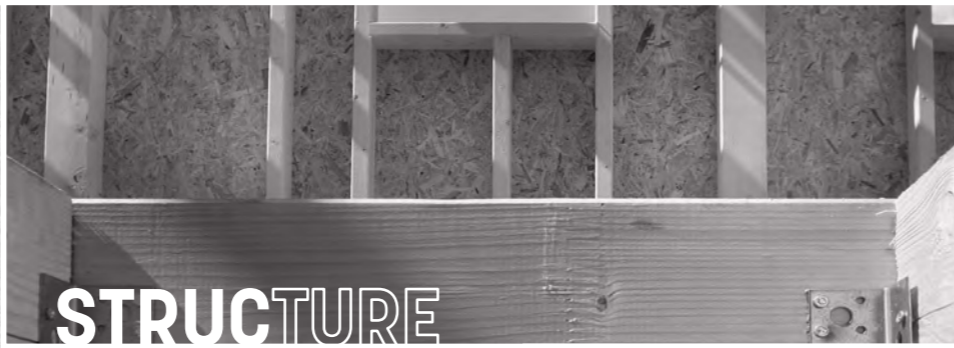
FORMWORK

Specific uses for specific products!

Non-slip plywood, beams and 3-ply panels, perfectly suited to formwork.

 See you on p. 76!

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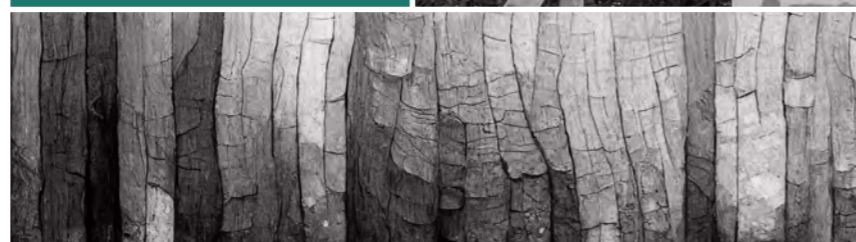
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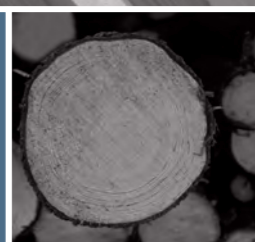
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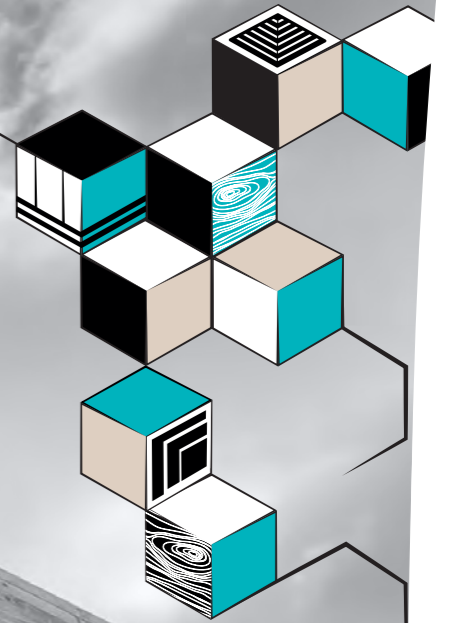


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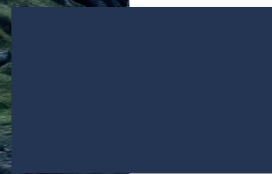
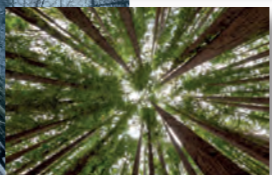
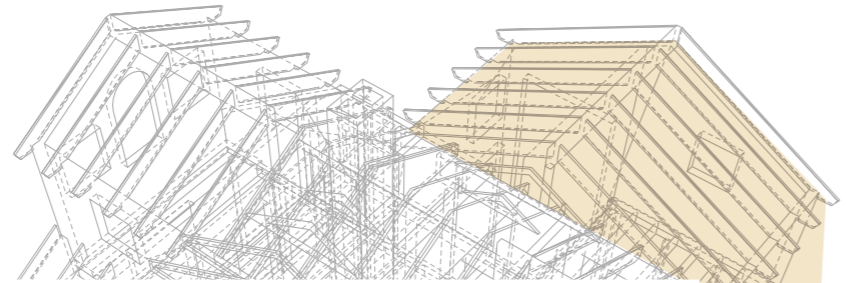


 **Contacts**
See you on p. 138!

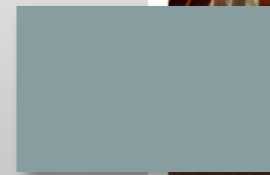
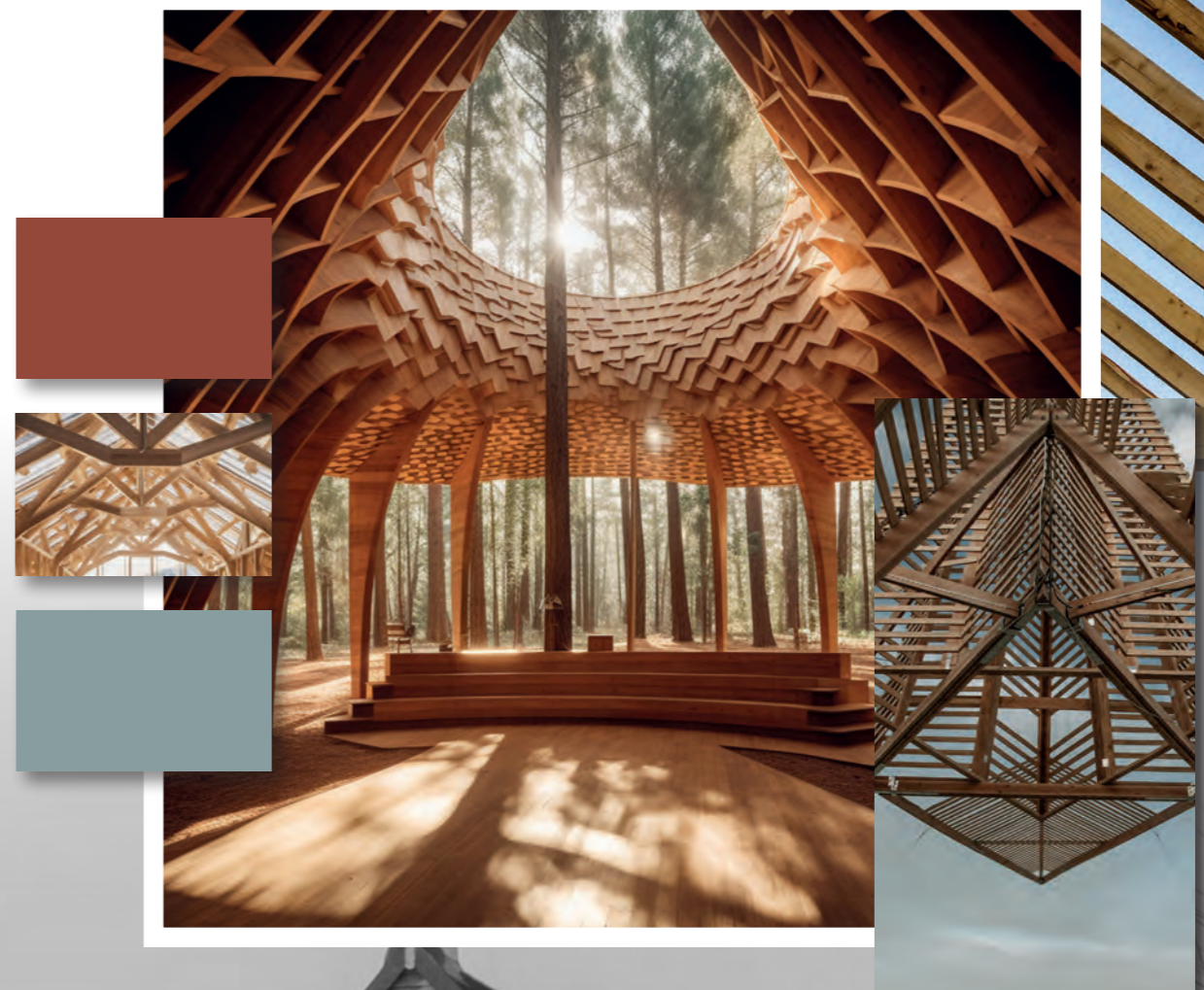
STRUCTURE



INSPIRATION



PAST, PRESENT
FUTURE



“Being modern is not a fashion, it's a state.
We need to understand history, and those who understand history know how to find continuity between what was, what is and what will be.”
Le Corbusier

SELECTION



A FEW WORDS FROM

CHRISTOPHE COPPET

SA COPPET (79)
Timber frame company
www.sacoppet.fr



PROJECT

Reconstruction of the Emmanuel Dupaty school in Blanquefort (33)
Amount: € 28,552,279
Contractor: Conseil départemental de la Gironde (Gironde Departmental Council)
Commissioned architect: TLR Architecture

The choice of Kerto® LVL quickly became apparent to us during the design phase, as a replacement for OSB panels. We had a very large surface area of panels to install on a tight schedule during the winter. We therefore had to optimise the lifting times on the one hand, and meet the deadlines by reducing the time spent using the tower crane used by the structural work package on the other. We put up 300 m² of panels every day!

We chose Kerto® panels because they could be manufactured in large sizes while still meeting the optimisation requirements. We sent a list of parts numbered by roof and zoning, enabling us to organise the storage areas as soon as they were unloaded on site. In addition, the 27mm cross-laminated Kerto® panel selected complied with the technical specifications requested, i.e. a panel forming a 'diaphragm' in the roof and supporting a waterproofing membrane, to accommodate either a green roof or photovoltaic panels.

The most technically efficient structural solution. Kerto® LVL is a multifunctional component thanks to its many possible types and sections in beams or panels. Large-format production allows for multiple and varied uses, opening up a whole new range of possibilities for prefabrication professionals and project designers.

See you on p.22



This is a frugal and economical solution because it saves a lot of material compared with a rectangular section and makes it easier to drill holes or transit fluids. Its reliability and versatility mean it can be used effectively in a wide range of construction solutions.

See you on p.24



This is an environmentally-friendly solution, as the raw material is minimally processed and sorted by recycling wood of the wrong length. A wide range of standardised cross-sections is available for timber-frame construction and traditional carpentry. The concept of a long length means that users don't need to have several "massive" lengths.

See you on p.34



LAMINATED VENEER LUMBER KERTO® LVL

NORWAY SPRUCE

CHARACTERISTICS

LVL: Laminated Veneer Lumber

3 mm thick mechanically graded peeled veneer bonded with a phenol-formaldehyde adhesive, resistant to weather and boiling water.

LVL-S: Veneers oriented in the same direction

LVL-Q: At least 20% cross-laminated at 90°

"As peeled" surface finish

APPLICATIONS

Frame walls and facades

Long-span floor joists

Structural members/Reinforcements

Posts/Trusses/Tapered beams

Load-bearing floor or roof panels

PERFORMANCES

CE marking NF EN 14374

Kerto Eurofins certificate no. EUFI29-20000676-C

SERVICES

Wide choice of stored sections

Intermediate lengths, up to 13.50 m

Other types and sizes, optical sanding on request

Class 2 treatment on request

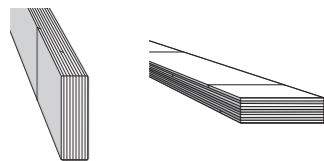
Split pallet

CNC machining

PROFILES

Type S

Type Q



COMPLIANCE AND GUARANTEES



PRODUCT AVAILABILITY



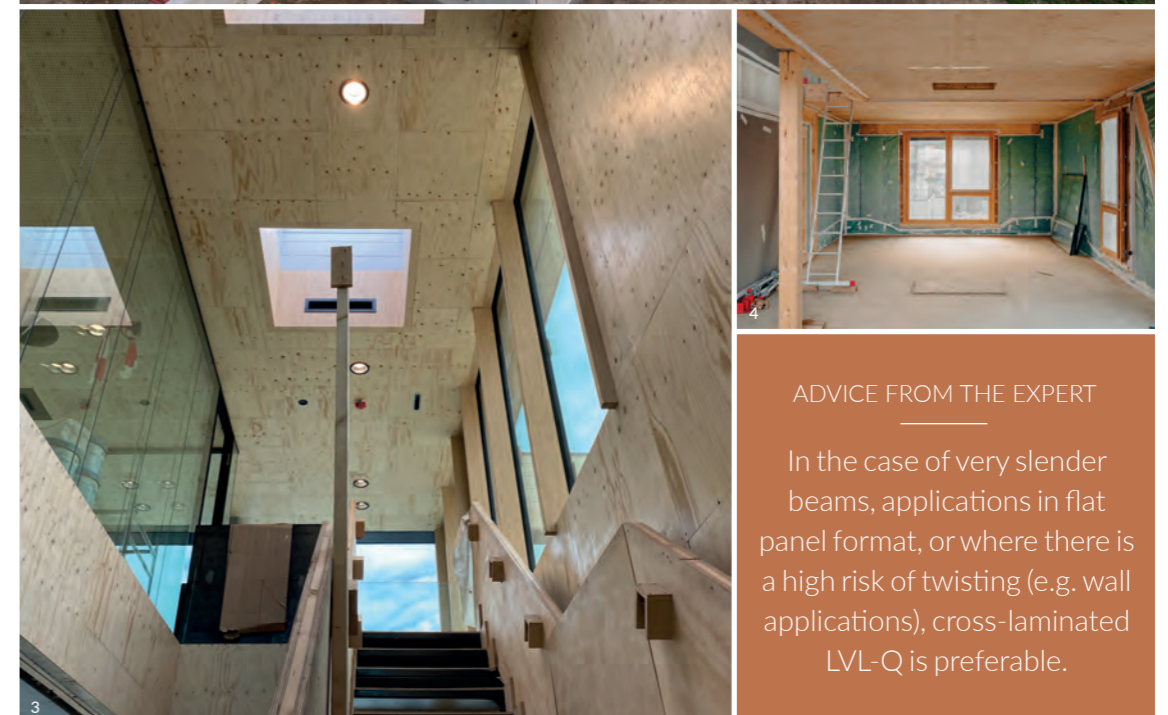
Type S

Type Q

FORMAT	TYPE	TH.	WDTH.
PANELS		27 mm	1,820 mm
			2,400 mm
	LVL-Q	39 mm	1,820 mm
			2,400 mm
		45 mm	1,820 mm
			2,400 mm
BEAMS	LVL-S	75 mm	1,250 mm
			1,820 mm
			225 mm
			260 mm
			300 mm
			360 mm
			300 mm
			300 mm
	LVL-Q	39 mm	350 mm
			400 mm
			240 mm
			300 mm
		350 mm	
		360 mm	
	LVL-S		400 mm
			450 mm
	75 mm		250 mm
			300 mm
			350 mm
			400 mm
	450 mm		
	600 mm		

+FEATURES

Very high mechanical performance and dimensional stability.



ADVICE FROM THE EXPERT

In the case of very slender beams, applications in flat panel format, or where there is a high risk of twisting (e.g. wall applications), cross-laminated LVL-Q is preferable.

1. Kerto® Q frame, APAW, Poulingue / 2. Roof and waterproofing support in Kerto® L27 mm, panel format. TLR Architecture, Coppet SA
 3. Floors, walls and roof in Kerto®, Metsä Wood, ©Leonard Fäustle / 4. Kerto® flooring, Gipen-Roux

SWELITE® I-BEAM

NORWAY SPRUCE FRAMES + WOOD-BASED PANEL CORE

CHARACTERISTICS

Solide Norway spruce frames C30 or C18 (depending on beam reference), planed on 4 sides with chamfers
10 mm central core in OSB/3 or P5 panel

APPLICATIONS

Medium-span floor joists
Terrace roof beams
Load-bearing rafters or purlins for pitched roofs
Framing uprights for walls (MOB/FOB/exterior insulation)

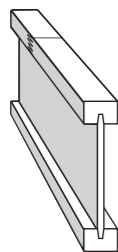
PERFORMANCES

Use in service classes 1 and 2 as defined by Eurocode 5
CE marking relating to the European Technical Assessment (ETA no. 12/0018)
Technical Application Document (DTA no. 3.3/21-1040) can be downloaded free of charge from the CSTB website

SERVICES

Wide choice of stored sections
Intermediate lengths, up to 13.50 m
Other sizes on request
Class 2 treatment on request
Split pallet

PROFILE



COMPLIANCE AND GUARANTEES



PRODUCT AVAILABILITY



OSB/3 core p5 core

TYPE	MECH. CLASS		WDTH.	HGT.
	TIE BEAMS	CORE		
R	C18	P5	47 mm	200 mm
HL	C18	OSB/3	47 mm	360 mm
H	C30	P5	47 mm	240 mm
HM	C30	OSB/3	60 mm	360 mm
HI	C30	P5	70 mm	220 mm
				240 mm
				300 mm
HB	C30	OSB/3	97 mm	250 mm
				300 mm
				350 mm
HB	C30	OSB/3	97 mm	400 mm
				450 mm

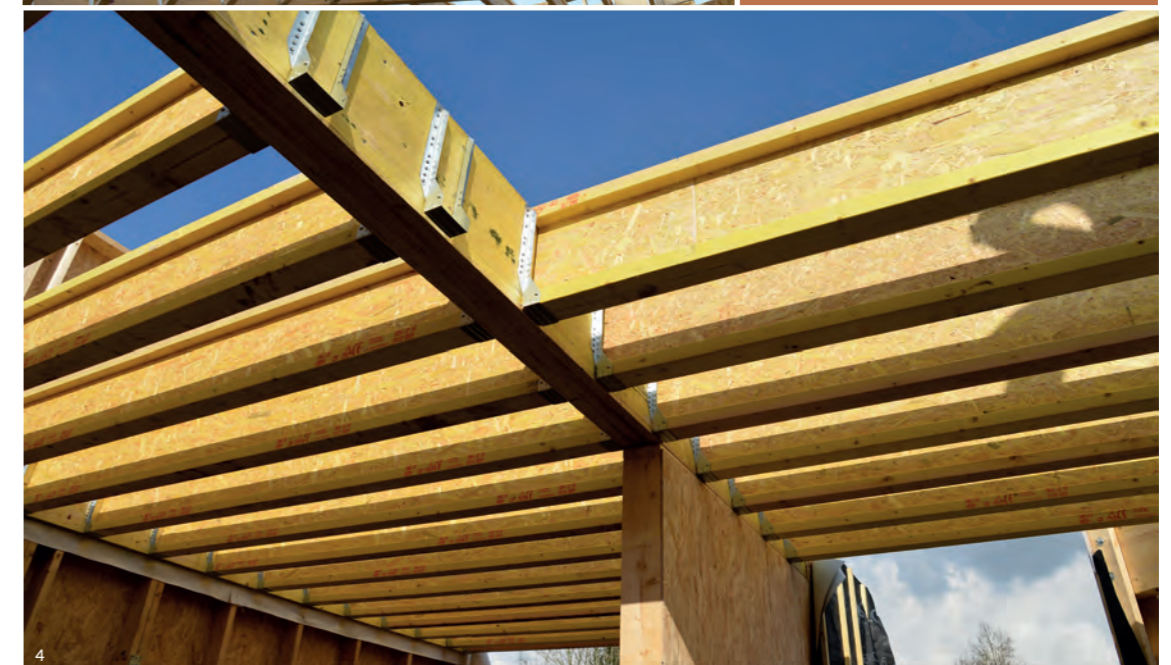
+FEATURES

Lightweight, dimensionally stable beams, with a profile that makes them easy to install.
An intelligent, material-saving structural product.



ADVICE FROM THE EXPERT

This product is ideal for use in a wide range of residential building solutions, whether for renovation or new builds.



1. Load-bearing rafters "L'invitation au voyage (Honfleur)"/2 and 3. Frame uprights/4. Floor joists

GLULAM TIMBER

NORWAY SPRUCE

CHARACTERISTICS

Dry wood, obtained by end-to-end jointing and bonding strips of wood, each no more than 45 mm thick

Wood planed on 4 sides with chamfers

Surface quality visible

APPLICATIONS

Structural elements of timber constructions

Large spans for heavily loaded joists/purlins/beams

PERFORMANCES

Mechanical class GL24h

CE marking NF EN 14080

SERVICES

Wide choice of stored sections

Intermediate lengths, up to 13.50 m

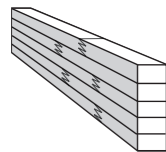
Other dimensions or mechanical classes on request

Class 3.1 treatment on request

Split pallet

CNC machining

PROFILE



PRODUCT AVAILABILITY



TH.	WDTH.	MECH. CLASS
80 mm	240 mm	GL24h
	280 mm	
	225 mm	
	270 mm	
90 mm	320 mm	
	360 mm	
	400 mm	
	280 mm	
120 mm	320 mm	
	360 mm	
	400 mm	
	440 mm	
140 mm	480 mm	
	240 mm	
	360 mm	
	400 mm	
	440 mm	
	520 mm	

+FEATURES

High mechanical performance to meet the technical challenges of projects, with a low environmental impact product.



ADVICE FROM THE EXPERT

The large cross-sections of the glulam beams provide good fire resistance for the structure if there is a high risk of fire.

1. Long-span purlins/2. Load-bearing floor beams

COMPLIANCE AND GUARANTEES



PLYWOOD

NORWAY SPRUCE, SCOTS PINE, DOUGLAS FIR

CHARACTERISTICS

Dry wood, made up of linear elements reconstituted by gluing together solid wood strips thicker than 45 mm, whether or not end-to-end jointed at the time of manufacture.

Wood planed on 4 sides with chamfers

Surface quality visible

APPLICATIONS

Small to medium-span floor joists

Structural members

Posts

PERFORMANCES

Mechanical class C18 slats for Douglas fir and C24 slats for Norway spruce and Scots pine

CE marking NF EN 14080

SERVICES

Wide choice of stored sections

Intermediate lengths, up to 13.50 m

Class 3.1 treatment on request

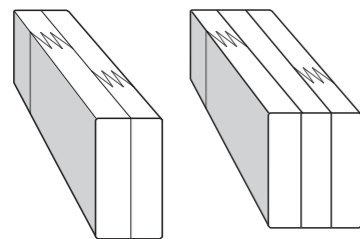
Split pallet

CNC machining

PROFILES

Duolam

Triolam



PRODUCT AVAILABILITY



Duolam

Triolam

SPECIES			TH.	WDTH.
NORWAY SPRUCE	SCOTS PINE	DOUGLAS FIR		
	✓			120 mm
	✓		70 mm	140 mm
	✓			190 mm
	✓			240 mm
✓				120 mm
✓			80 mm	200 mm
✓		✓		220 mm
✓				240 mm
	✓		90 mm	90 mm
✓				200 mm
✓			100 mm	220 mm
✓				240 mm
✓				280 mm
✓	✓	✓		120 mm
✓		✓	120 mm	240 mm
✓				260 mm
✓	✓	✓		140 mm
✓			140 mm	200 mm
✓				280 mm
✓		✓	160 mm	160 mm
✓				280 mm
✓			180 mm	180 mm
✓	✓	✓		200 mm
✓			200 mm	240 mm
✓				280 mm
✓			240 mm	240 mm

+FEATURES

The bonding of solid wood with controlled characteristics means that thicker materials can be used to meet project requirements. Available in French Wood and Northern Wood.



ADVICE FROM THE EXPERT

Plywood (reconstituted solid wood or RSW) has square (for posts) or rectangular (for beams) cross-sections.

1 and 2 Norway spruce traditional framing members



PROCESS PANEL

OSB/3

CHARACTERISTICS

Composition: strips of wood oriented in 3 criss-cross layers (80% softwood, 20% hardwood)

Straight-edged panels or 4-sided tongue-and-groove tiles

APPLICATIONS

Frame backing board

Load-bearing floor or roof panels

Structural use: Yes

PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1

Reaction to fire: D-s2, d0 if th. > 9 mm

Use class: Class 2 dry/wet environment

CE marking 2+ NF EN 13986

SERVICES

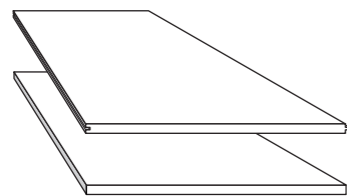
On request:

OSB/4

Fire-resistance

Anti-termite treatment

PROFILES



COMPLIANCE AND GUARANTEES



*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)

+FEATURES

The panel that complements the wood-frame system, preferred for its performance-cost ratio.



ADVICE FROM THE EXPERT

Limit exposure to weather during the construction phase, to preserve all its characteristics.



1, 2 and 3. Backing board panels for timber-framed walls

PROCESS PANELS

MFP P5

CHARACTERISTICS

Composition: Mostly recycled bonded fine flake board
Straight-edged panels or 4-sided tongue-and-groove tiles

APPLICATIONS

Frame backing board
Load-bearing floor or roof panels
Structural use: Yes

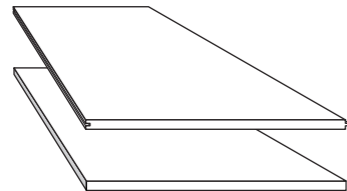
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1
Reaction to fire: D-s2, d0 if th. > 9 mm
Use class: Class 2 dry/wet environment
CE marking 2+ NF EN 13986

SERVICES

Fire-resistance on request
Cut to size

PROFILES



COMPLIANCE AND GUARANTEES



*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)

PRODUCT AVAILABILITY



OPERATIONS	TH.
2.800 x 1.196 m	12 mm
3.300 x 1.196 m	12 mm
	19 mm
2.500 x 0.615 m	22 mm

Other formats and thicknesses on request

+FEATURES

This panel is doubly low-carbon, as it is produced mainly from recycled wood.



ADVICE FROM THE EXPERT

Unlike other structural panels, MFP is isotropic: it can be installed in any direction, which optimises the use of materials.

1 and 2 Backing board panels for timber-framed walls

SOLID STRUCTURAL TIMBER

NORWAY SPRUCE, SCOTS PINE

CHARACTERISTICS

Sawn timber where the singularities not allowed for the relevant tensile grade are eliminated by end-to-end jointing the boards

Wood planed on 4 sides with chamfers

APPLICATIONS

Frame walls and facades

Small-span floor joists

Structural members

PERFORMANCES

Mechanical class C24

CE marking NF EN 15497

SERVICES

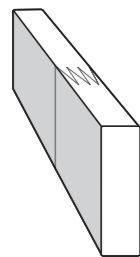
Wide choice of stored sections

Intermediate lengths, up to 13.50 m

Treatment up to Class 3.1 for Norway spruce and up to Class 4 for Scots Pine (depending on product)

CNC machining

PROFILE



COMPLIANCE AND GUARANTEES



PRODUCT AVAILABILITY



SPECIES		TH.	WDTH.
NORWAY SPRUCE	SCOTS PINE		
✓			70 mm
✓			95 mm
✓	✓		120 mm
✓	✓		145 mm
✓		45 mm	160 mm
✓			170 mm
✓			180 mm
✓			195 mm
✓			200 mm
✓	✓		220 mm
✓		58 mm	90 mm
✓			40 mm
✓	✓		80 mm
✓			95 mm
✓			100 mm
✓		60 mm	145 mm
✓			160 mm
✓			170 mm
✓	✓		180 mm
✓			200 mm
✓			220 mm
✓			240 mm
✓		70 mm	195 mm
✓			220 mm
✓			100 mm
✓			120 mm
✓		80 mm	160 mm
✓			200 mm
✓	✓		220 mm
✓			240 mm
✓			200 mm
✓	✓	100 mm	220 mm
✓			240 mm
✓		120 mm	220 mm

+FEATURES

The species selected meet the requirements of the structure. The manufacturing technique makes them even more efficient by reducing the natural characteristics of the wood.



ADVICE FROM THE EXPERT

Long lengths optimise site throughput.

1 and 2 Norway spruce finger-jointing/3. Norway spruce flooring components

SOLID WOODEN FRAMEWORK

NORWAY SPRUCE, DOUGLAS FIR

CHARACTERISTICS

- Sawn timber from larger logs
- Wood planed on 4 sides with chamfers

APPLICATIONS

- Frame walls and facades
- Small-span floor joists
- Structural members

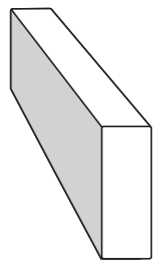
PERFORMANCES

- Mechanical class C24
- CE marking NF EN 14081

SERVICES

- Wide choice of stored sections
- Lengths up to 6 m
- Treatment up to Class 3.1 for Norway spruce and up to Class 3.2 for Douglas fir on request
- CNC machining

PROFILE



PRODUCT AVAILABILITY



SPECIES	TH.	WDTH.	MECH. CLASS
NORWAY SPRUCE		95 mm	C24
		120 mm	
		145 mm	
		195 mm	
DOUGLAS FIR	45 mm	220 mm	C24
		95 mm	
		120 mm	
		145 mm	
		220 mm	

+FEATURES

Minimally processed, particularly low-carbon wood, available in Northern Wood and French Wood.



ADVICE FROM THE EXPERT

A dry, lightweight solution, timber framing is being used more and more in renovation projects to raise the height of buildings or houses.



1, 2 and 3. Vertical uprights and horizontal rails for timber-framed walls

COMPLIANCE AND GUARANTEES



OUR MACHINING SOLUTIONS

SINBPLA PRECISION MANUFACTURES ALL TIMBER STRUCTURE PRODUCTS FOR YOUR SITES

In order to meet the increased demands of the timber construction sector, it has become essential for materials and/or construction systems (including 2D to 5D prefabrication) to be produced with a high degree of precision, incorporating the specific features of the project, in order to facilitate and make reliable implementation on site.

Thanks to our new 5-axis CNC machine, we can help you develop your projects with:

- Machining solutions tailored to your needs
- Cleaner construction sites
- Reduced on-site intervention times
- Optimised management of materials.

In addition, class 2 colourless treatment is available for formats up to 1.15 x 13.50 m.

BEAM OR POST APPLICATIONS

	FULL-LENGTH EDGING	
	Optimising beams in a panel	
	Circular saw	
	SAWN TO SPECIFICATIONS	
	Optimising offcuts	
	Circular saw, milling cutter	
	DIAGONAL CUT	
	Porch posts, tapered beams	
	Circular saw, milling cutter	
	CURVED STRUCTURE	
	Reinforcement of trusses and/or porch posts	
	Spindle moulding machine, milling cutter	
	ASSEMBLY: NOTCHING/DRILLING	
	Beam end assembly	
	Drill, milling cutter	

PANEL APPLICATIONS

	SIZING	
	Structural panels for floors, roofs or walls	
	Drill, circular saw, milling cutter	
	RESERVATION	
	Hopper	
	Circular saw, milling cutter	
	RESERVATION	
	Opening doors and windows	
	Circular saw, milling cutter	
	ROUTING	
	Grooves for electrical installations	
	Spindle moulding machine, milling cutter	
	ASSEMBLY: BARGE	
	Half-timbered, rebate	
	Joint cover for panel-to-panel assembly	
	Spindle moulding machine, milling cutter	

Our CNC machine uses 4 main tools: the drill, circular saw, milling cutter and the spindle moulding machine. They allow complex 5-axis machining operations to be carried out with maximum precision and flexibility. Our tolerances are of the order of 1 mm (2 mm for angled cuts).

Sinbpla can cut, drill and notch all structural wood products up to a maximum size:
Length: 13.50 m • Width: 2,500 mm • Thickness: 220 mm

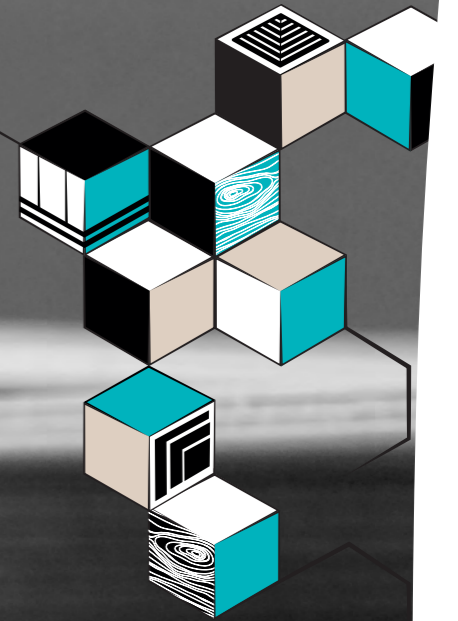
PRODUCTS

PRODUCT	ASSESSMENT/ PRODUCT STANDARD	PERFORMANCE/ MECHANICAL CLASS	COMPONENTS/ USES
 SOLID WOOD SOLID STRUCTURAL TIMBER (BMA)	NF EN 14081 NF EN 15497	C24	Timber-framed wall or façade Traditional framework
 WOOD PLYWOOD (RSW)	NF EN 14080	C24	Flooring Frame Post
 SWELITE® I-BEAM	ETA no. 12/0018	Wood composite beam (see ETA)	Floor joist Terrace roof joist-purlin Load-bearing rafter Purlin (medium range) Frame upright (timber-framed wall or façade)
 WOOD GLULAM TIMBER (GLT)	NF EN 14080	GL24h (edge-mounted)	Long-span purlin or joist Load-bearing beam (head beam, ridge tile, truss)
 LAMINATED VENEER LUMBER KERTO®-LVL	NF EN 14374	Type S (edge-mounted)	Floor joist, beam and head beam Terrace roof joist purlin Load-bearing rafter Long-span purlin, ridge beam, truss Structural tie-beam Lintel, reinforcement Frame upright (timber-framed wall or façade)
		Type Q (edge-mounted)	Wall or structural edge Very slender beam Lintel, reinforcement Porch post or truss
		Type Q (flat-mounted)	Load-bearing panel for floor or roof Load-bearing thin wall (backing board)

...AND CURRENT TECHNIQUES

CONSTRUCTION SYSTEM	INSTALLATION GUIDELINES	PRODUCTS	BENEFITS AND ADVANTAGES
TIMBER-FRAMED WALLS	TIMBER-FRAMED WALLS NF DTU 31.2 (May 2019; including prefabrication) Swelite® TAD no. 3.3/21-1040	Frames, timber framework/Solid structural timber RSW/GLT/LVL/I-beams (closed or semi-closed walls)	Prefabrication: wide choice of available product formats, facilitating optimisation to meet the industrial efficiency required (post-and-beam, 2D/off-site/modular). Thermal insulation: the mixed i-beam and laminated veneer lumber frame system offers the opportunity to incorporate a significant thickness of biosourced or conventional insulation, in both new-build and renovation projects.
TIMBER-FRAMED FAÇADES	TIMBER-FRAMED FAÇADES NF DTU 31.4 (May 2020) Swelite® TAD no. 3.3/21-1040	OSB panels/ Plywood/ MFP/LVL-Q	
FLOORS	TIMBER FRAME NF DTU 31.1 (June 2017)	Frames, timber framework/Solid structural timber	Dimensional stability: engineered products (RSW, GLT, i-beam and LVL) are dry, straight and stable materials, further limiting shrinkage.
	TIMBER-FRAMED WALLS NF DTU 31.2 (May 2019; including prefabrication)	RSW/GLT/LVL/I-beam	Installation: with their multiple optimisable sections (material + weight), making it easier for networks to pass through, the i-beam or LVL can be installed efficiently and quickly. Thanks to a range of suitable metal connectors, fixing and assembly are simplified and standardised.
	WOOD FLOOR PANELS NF DTU 51.3 (Nov. 2004) Swelite® TAD no. 3.3/21-1040	OSB panels/ Plywood/MFP/ LVL-Q	Exposed wood: to meet your project requirements, the depth of the range offers several different surface finishes (solid wood, glued wood, laminated veneer lumber, etc.).
ROOFS	TIMBER FRAME NF DTU 31.1 (June 2017) Swelite® DTA no. 3.3/21-1040	Frames, timber framework/Solid structural timber RSW/GLT/LVL/I-beam	Structural performance: long spans using technical products mean that load-bearing walls can be avoided or the number of intermediate trusses reduced.
	TIMBER-FRAMED WALLS NF DTU 31.2 (May 2019; including prefabrication)	OSB panels/ Plywood/ MFP/LVL-Q	Installation: installing beams in long lengths, combined with large format panels, speeds up installation and reduces site times. Multifunctional LVL offers a wide range of optimised solutions, and the i-beam can also be a good alternative.
	INDUSTRIAL FRAME NF DTU 31.3 (Jan. 2012)	Light-frame truss timber LVL-S	Saves space: self-supporting rafters from ridge to eaves provide regular, aligned support for the materials attached on each side. Unlike long-span purlins, they take up very little space inside.
	WATERPROOF INACCESSIBLE ROOF NF DTU 43.4 (Nov. 2004; wood panel support) NF DTU 43.3 (Dec. 2017; steel pan support) Swelite® TAD no. 3.3/21-1040	Structural timber or framing / BMA RSW/GLT/LVL/I-beam	Transformation of attic space and elevation: thanks to the expertise of our contractors, the occupant benefits from additional living space while retaining the rigidity and security of a new roof structure. When installing LVL reinforcements, the attic conversion professionals donot modify the existing structure of the ground floor, which means limited disruption until the staircase is installed.
WATERPROOFED ACCESSIBLE ROOF RECO. PRO. (May 2019; wood panel support)	OSB panels/ Plywood/ MFP/LVL-Q	(beams and panels depending on justification)	Design: there are many solutions for flat roofs (minimum slope 3%). Whether accessible (with wooden decking) or not, an insulated and waterproofed roof complex can also be ballasted with gravel or vegetation, taking care to ensure proper moisture management in the wall.
GREEN ROOF PRO. RULES (May 2018; wood panel support)			

FITTINGS



INSPIRATION



“An empty room is a story waiting to happen, and you are the author.”
Charlotte Moss



SELECTION



A FEW WORDS FROM



LAURENT IMBEAU

Technical sales representative
SAMB



PROJECT

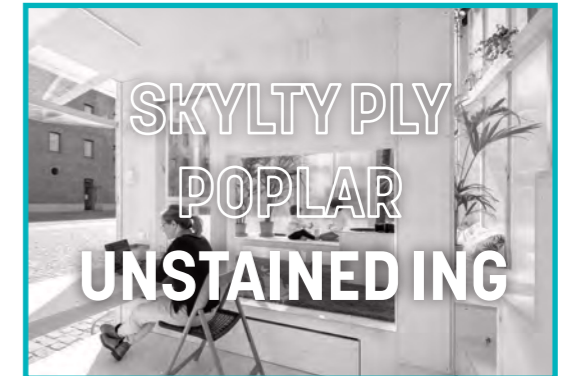
Working at SAMB since 1997, Laurent Imbeau has a CAP in joinery and fitting and has always been passionate about wood in all its forms. Today, he manages all "non-standard" requests and develops interior & exterior design panels.

I've been working with Sinbpla for a long time. SAMB stocks coloured MDF panels, but we also work with many other products. Okume and all-birch plywood are often used for converting former industrial wasteland into offices or homes. Film-coated birch plywood, frequently used for formwork, is sometimes used for furniture design. We recommend solid panels for table tops or fitting out commercial spaces. They are also sometimes combined with coloured MDF panels to add a very modern touch to the final layout. Finally, 3-ply panels are used mainly for formwork, while bendable plywood is used for the form-facing of concrete moulds.

Sinbpla is one of our flagship suppliers. The logistical conditions are ideal: thanks to their storage platform, we can mix and match several products on the same lorry, giving us a great deal of freedom when it comes to putting them together. Thanks to our highly diversified range of panels and plywood, we can provide solutions for a wide range of markets: formwork, fittings, furniture, etc. We work with fitters, carpenters and even architects, who are always on the lookout for new products.

This poplar plywood stands out by its 2 uniform, flawless sides. Its light colour means it can be painted or coated in any way. Finally, its low density makes it easy to machine and handle. This is multi-purpose plywood.

See you on p.50!



The high density of the Eucalyptus, combined with a 240g/m² phenolic film, gives this panel great stability and resistance to punching. It is also coated with a highly resistant phenolic non-slip film. This panel, available from stock, is THE new non-slip plywood panel.

See you on p.56!



High-quality solid wood panel, individually film-coated. Its long length means it can be cut to the optimum length. It combines aesthetic appeal with high mechanical strength. This combination can be used to design worktops, furniture and even staircase steps. It is a robust, beautiful panel.

See you on p.70!



FITTINGS

SKYLTYP[®] PLY PLYWOOD

STAINED ING POPLAR, EUCALYPTUS, OKUME

CHARACTERISTICS

STAINED ENGINEERED POPLAR

Composition: 100% Poplar
 Red-stained side Th. ≥ 0.20 mm
 Red-stained back veneer Th. ≥ 0.20 mm

EUCALYPTUS

Composition: 100% Eucalyptus
 Grade B side Th. ≥ 0.60 mm with 2.50 x 1.22 m format
 and Th. ≥ 0.40 mm with 3.10 x 1.53 m format
 Grade BB back veneer Th. ≥ 0.60 mm with 2.50 x 1.22 m
 format and Th. ≥ 0.40 mm with 3.10 x 1.53 m format

OKUME

Composition: 100% Okume
 Grade II side Th. ≥ 1 mm
 Grade III back veneer Th. ≥ 1 mm

APPLICATIONS

Interior joinery/Interior and exterior design/Furniture
 Structural use: Yes (Eucalyptus/Okume)

PERFORMANCE

Formaldehyde emission (NF EN 717-2): E1

Reaction to fire: D-s2, d0 if Th. > 9 mm

Use class:

- Poplar: Class 2 dry/wet environment
- Eucalyptus: Class 3 wet environment in 2.50 x 1.22 m
and Class 2 dry/wet environment in 3.10 x 1.53 m
- Okume: Class 3 wet environment

CE marking:

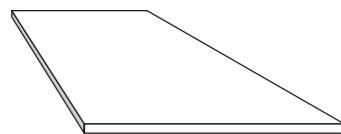
- Eucalyptus and Okume CE 2+ NF EN 13986
- CE marking 4 NF EN 13986

SERVICES

On request:

Cutting and finishing services/Fire-resistant
 if thickness 5 to 44 mm/Other formats

PROFILE



COMPLIANCE AND GUARANTEES



*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)

PRODUCT AVAILABILITY



Poplar

Eucalyptus

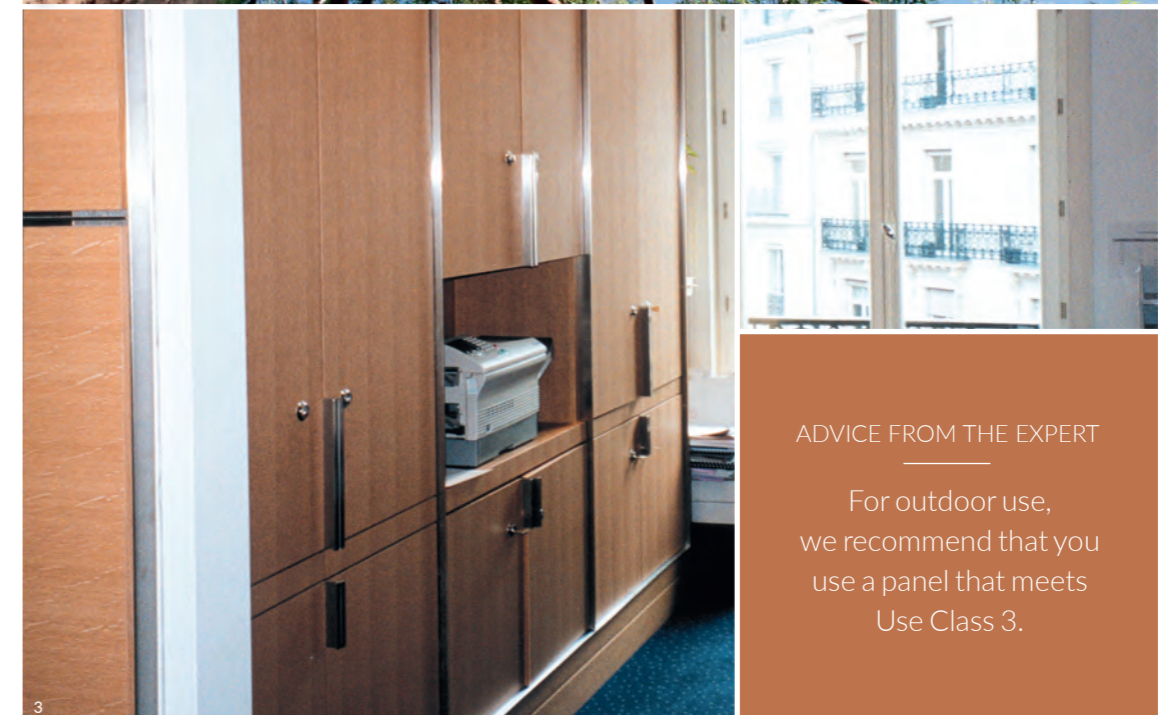
Okume



FORMAT	TH.	PLY-RATING		
		POPLAR	EUCALYPTUS	OKUME
2.50 x 1.22 m	3.6 mm	3	-	-
	5 mm	3	3	3
	8 mm	5	5	5
	10 mm	5	5	5
	12 mm	7	7	7
	15 mm	9	9	7
	18 mm	11	11	9
	21 mm	13	13	-
	22 mm	-	-	9
	25 mm	15	-	11
3.10 x 1.53 m	5 mm	3	-	-
	8 mm	5	-	-
	9 mm	-	5	-
	10 mm	5	-	-
	12 mm	7	7	-
	15 mm	9	9	-
	18 mm	11	11	-
	21 mm	13	13	-
	24 mm	-	15	-
	30 mm	15	17	-
35 mm	-	19	-	

+FEATURES

High dimensional stability and ease of machining. These panels are essential for interior design in dry or wet environments, depending on the species chosen.



ADVICE FROM THE EXPERT

For outdoor use, we recommend that you use a panel that meets Use Class 3.

1. Okume/2. Eucalyptus/3. Okume interior and exterior design

SKYLTY® PLY PLYWOOD

POPLAR

CHARACTERISTICS

NON-STAINED ENGINEERED POPLAR

Composition: 100% Poplar
 Side Th. ≥ 0.40 mm
 Back veneer Th. ≥ 0.40 mm

POPLAR

Composition: 100% Poplar
 Grade B side Th. ≥ 0.30 mm
 Grade BB back veneer Th. ≥ 0.60 mm

APPLICATIONS

Interior joinery/Interior and exterior design/Furniture
 Structural use: No

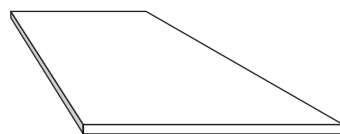
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1
 Reaction to fire: D-s2, d0 if Th. > 9 mm
 Use class: Class 1 dry environment
 CE marking 4 NF EN 13986

SERVICES

On request:
 Cutting and finishing services
 Fire-resistant if thickness 5 to 44 mm
 Other formats

PROFILE



COMPLIANCE AND GUARANTEES



La marque de la
 gestion forestière
 responsable



Bleached and Engineered Poplar
 *Information on the level of volatile
 substance emissions into indoor
 air, presenting a risk of toxicity by
 inhalation, on a class scale from
 A+ (very low emissions) to C (high
 emissions)

PRODUCT AVAILABILITY



Engineered Poplar

Poplar



FORMATS	TH.	PLY-RATING	
		ENGINEERED POPLAR	POPLAR
2.50 x 1.22 m	5 mm	3	-
	8 mm	3	5
	10 mm	5	5
3.10 x 1.53 m	12 mm	5	7
	15 mm	7	7
	18 mm	9	9
2.50 x 1.85 m	21 mm	11	-
	22 mm	-	9
	5 mm	-	3
	8 mm	-	5
	10 mm	-	5
3.10 x 1.85 m	12 mm	-	5
	15 mm	-	7
	18 mm	-	7
	22 mm	-	9

+FEATURES

Lightweight,
 easy-to-machine plywood,
 suitable for all types of stain.



1. Poplar/2 and 3. Poplar interior and exterior design

ADVICE FROM THE EXPERT

For use in damp rooms,
 Class 3 bonding
 is required.

SKYLTY® PLY PLYWOOD

BIRCH

CHARACTERISTICS

Composition: 100% Birch
 Grade S or BB side Th. ≥ 1 mm
 Grade BB back veneer Th. ≥ 1 mm

APPLICATIONS

Interior joinery/Interior and exterior design/Furniture
 Structural use: Yes

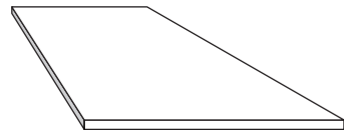
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1
 Reaction to fire: D-s2, d0 if Th. > 9 mm
 Use class: Class 2 dry/wet environment
 CE marking 2+ NF EN 13986

SERVICES

On request:
 Cutting and finishing services
 Fire-resistant if thickness 5 to 44 mm
 Other formats

PROFILE



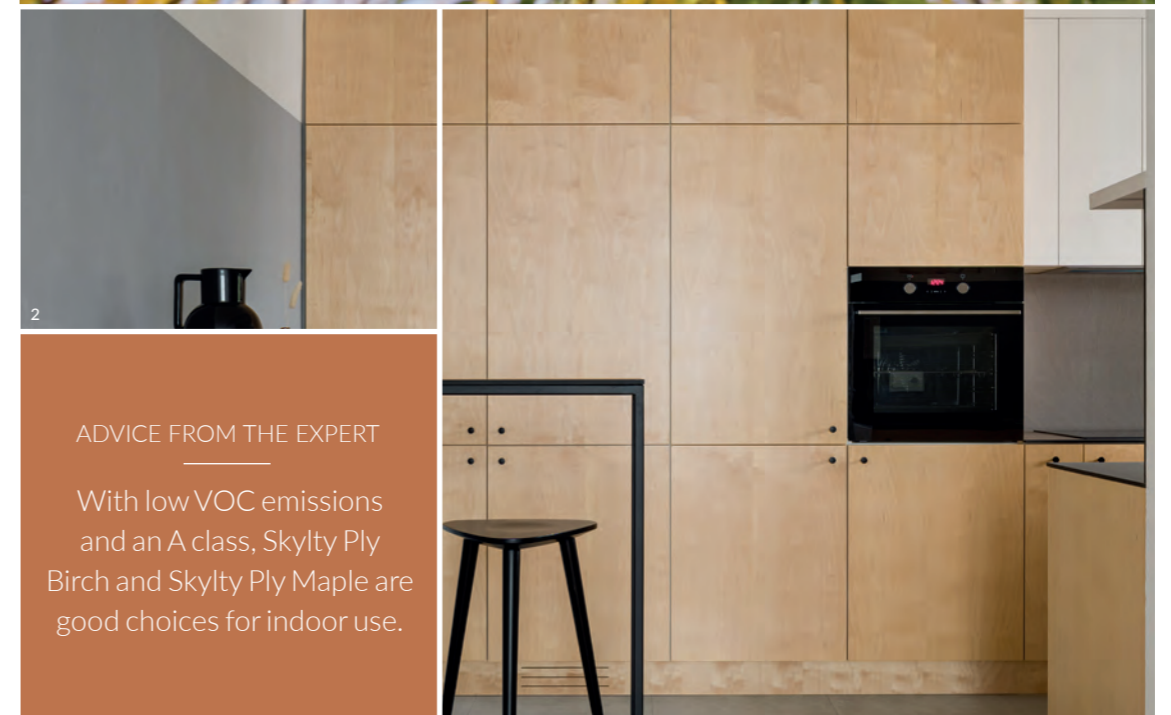
PRODUCT AVAILABILITY



FORMATS	TH.	PLY-RATING
1.525 x 3.05 m	6.5 mm	5
	9 mm	7
	12 mm	9
	15 mm	11
	18 mm	13
	21 mm	15
	24 mm	17
	30 mm	19
	40 mm	29
	50 mm	35

+FEATURES

Birch plywood is very dense: it resists punching and has a very even, light appearance.



ADVICE FROM THE EXPERT

With low VOC emissions and an A class, SkyLty Ply Birch and SkyLty Ply Maple are good choices for indoor use.

1. Birch/2. Birch interior and exterior design

COMPLIANCE AND GUARANTEES



*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)

SKYLTY® PACK & PLY PLYWOOD

ELLIOT, NORWAY SPRUCE, RADIATA PINE

+FEATURES

CHARACTERISTICS

ELLIOT PINE

Composition: 100% Elliot pine
 Grade C+ side Th. ≥ 1 mm
 Grade C back veneer Th. ≥ 1 mm

NORWAY SPRUCE

Composition: 100% Norway Spruce
 Grade II side Th. ≥ 1 mm
 Grade III back veneer Th. ≥ 1 mm

RADIATA PINE

Composition: 100% Radiata pine
 Grade A side Th. ≥ 1 mm
 Grade C back veneer Th. ≥ 1 mm

APPLICATIONS

Packaging and crating (Elliotis)
 Interior joinery/interior and exterior design (Radiata pine/
 Norway Spruce)
 Structural use: Yes (Norway Spruce and Radiata Pine)

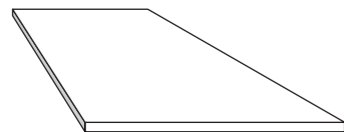
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1
 Reaction to fire: D-s2, d0 if Th. > 9 mm
 Use class: Class 3 wet environment
 Norway Spruce and Pin Radiata CE Marking
 2+ NF EN 13986

SERVICES

On request:
 Cutting and finishing services
 Fire-resistant if thickness 5 to 44 mm
 Other formats

PROFILE



COMPLIANCE AND GUARANTEES



For Norway Spruce and Radiata Pine

PRODUCT AVAILABILITY



Elliot Pine

Norway Spruce

Radiata Pine



FORMATS	TH.	PLY-RATING		
		ELLIOT PINE	NORWAY SPRUCE	RADIATA PINE
2.50 x 1.25 m	7 mm	3	-	-
	9 mm	5	3	3
	12 mm	5	5	5
	15 mm	5	5	5
	18 mm	7	7	7
2.50 x 1.53 m	21 mm	7	7	7
	24 mm	9	9	9
	30 mm	11	-	-
2.50 x 1.53 m	9 mm	5	-	-
	15 mm	5	-	-

For packaging and crating,
 Skylty® Pack Elliot
 is highly resistant to tearing.



ADVICE FROM THE EXPERT

For interior and exterior design, we recommend Skylty® Ply Radiata Pine and Norway Spruce panels, with side qualities adapted to the project.

1. Radiata pine interior and exterior design/2. Elliot pine packing cases/3. Radiata Pine

SKYLTY® GRIP PLYWOOD

POPLAR, EUCALYPTUS, BIRCH

CHARACTERISTICS

COMBI

Composition: 50% Eucalyptus/50% Poplar
 Side: 240 g/m² film
 Back veneer: 120 g/m² film

EUCALYPTUS

Composition: 100% Eucalyptus
 Side: 240 g/m² film
 Back veneer: 130 g/m² film

BIRCH

Composition: 100% Birch
 Side: 145 g/m² film
 Back veneer: 145 g/m² film

APPLICATIONS

Event use (Combi)
 Intensive use in bodywork and scaffolding
 (Eucalyptus/Birch)
 Structural use: Yes (Eucalyptus/Birch)

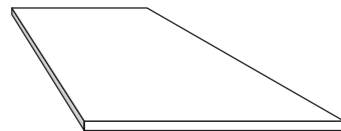
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1
 Reaction to fire: D-s2, d0 if Th.> 9 mm
 Use class: Class 3 wet environment
 Eucalyptus and Birch CE marking 2+ NF EN 13986

SERVICES

On request:
 Cutting and finishing services
 Other formats

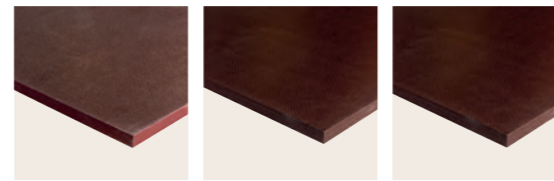
PROFILE



COMPLIANCE AND GUARANTEES



PRODUCT AVAILABILITY



Combi

Eucalyptus

Birch



FORMATS	TH.	PLY-RATING		
		COMBI	EUCALYPTUS	BIRCH
2.50 x 1.25 m	9 mm	-	5	7
	12 mm	-	7	9
	15 mm	11	9	11
	18 mm	13	11	13
	21 mm	15	13	15
	24 mm	-	15	17
	27 mm	-	17	19
1.525 x 2.50 m	30 mm	-	19	21
	35 mm	-	21	25
	9 mm	-	5	7
	12 mm	-	7	9
	15 mm	-	9	11
	18 mm	-	11	13
	21 mm	-	13	15
1.525 x 3.00 m	24 mm	-	15	17
	27 mm	-	17	19
	30 mm	-	19	21
	35 mm	-	21	25
	9 mm	-	5	7
	12 mm	-	7	9
	15 mm	-	9	11

+FEATURES

This non-slip plywood product comes in a wide range of formats and thicknesses to adapt the panel to your projects.



1. Birch trailer floor/2. Combi stage floor

ADVICE FROM THE EXPERT

The edges of Skyilty® Grip panels are coated for optimum protection. Any cutting involves repainting the machined parts with water-resistant acrylic paint.

SKYLTY® DÉCO PLYWOOD

BENDABLE

CHARACTERISTICS

FROMAGER
Composition: 100% Fromager
Grade B side Th. ≥ 1 mm
BB back veneer Th. ≥ 1 mm

APPLICATIONS

Interior joinery/Interior and exterior design/Furniture
Structural use: No

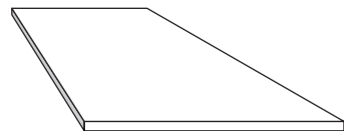
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1
Reaction to fire: D-s2, d0 if Th. > 9 mm
Use class: Class 1 dry environment
CE marking 4 NF EN 13986

SERVICES

On request:
Cutting and finishing services
Fire-resistant if thickness 5 to 44 mm
Other formats

PROFILE



PRODUCT AVAILABILITY



FORMATS	TH.	PLY-RATING
2.50 x 1.22 m	7 mm	3
	9 mm	
	5 mm	
1.22 x 2.50 m	7 mm	
	9 mm	

+FEATURES

The low density of the fromager wood makes it easy to bend. This is THE panel for creating curves!



ADVICE FROM THE EXPERT
Bending can be carried out lengthways or widthways, depending on the orientation of the grain (cross grain or long grain). To improve the bending of the panel, we recommend that you dampen it.

1. Zoom bendable plywood/2, 3 and 4. Furniture

COMPLIANCE AND GUARANTEES



*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)

SKYLTY® DÉCO PLYWOOD

GROOVES

CHARACTERISTICS

UNDERTHROATING

Composition: 100% Radiata pine
 Grade A side Th. ≥ 3 mm
 C back veneer Th. ≥ 3 mm

PROFILE

Composition: 100% Radiata pine
 Grade B side Th. ≥ 3 mm
 C back veneer Th. ≥ 3 mm

APPLICATIONS

Interior joinery/Interior and exterior design/Furniture
 Structural use: Yes

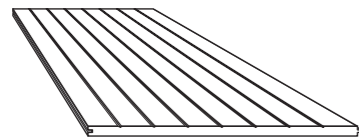
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1
 Reaction to fire: D-s2, d0 if Th. > 9 mm
 Use class: Class 2 dry/wet environment
 CE marking 2+ NF EN 13986

SERVICES

On request:
 Cutting and finishing services
 Other formats

PROFILE



COMPLIANCE AND GUARANTEES



*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)

PRODUCT AVAILABILITY



Underthroating

Profile



FORMAT	TH.	PLY-RATING
2.44 x 1.22 m	9 mm	3

+FEATURES

A clever panel that saves time when laying: the grooved finish imitates wooden battens, but the panel format makes laying much simpler.



ADVICE FROM THE EXPERT

Use class 2: these panels can be used in dry indoor or sheltered outdoor environments.

1. Profile ceiling

PROCESS PANELS

BACKING BOARD LAMINATE

CHARACTERISTICS

Composition: Cellulose fibre strip impregnated with thermosetting resin

Colours:

- > White
- > Grey white

APPLICATIONS

Interior joinery/Interior and exterior design/Furniture

Structural use: No

PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1

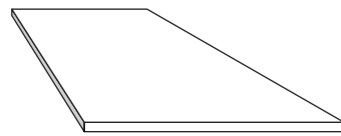
Water and heat resistant

Use class: Class 2 dry/wet environment

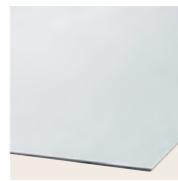
SERVICE

Other colours on request

PROFILE



PRODUCT AVAILABILITY



FORMAT	TH.
3.05 x 1.30 m	0.8 mm

+FEATURES

Its density gives your support panel greater resistance to water and heat



ADVICE FROM THE EXPERT

To back board a laminate, use a backing board panel of the same thickness.

1. Work surface/2. Focus on backing board panels

COMPLIANCE AND GUARANTEES



La marque de la gestion forestière responsable



*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)

PROCESS PANELS

FIBRE

CHARACTERISTICS

Composition: Wood fibre (80% softwood, 20% hardwood)
 Side: Smooth appearance
 Back veneer: Embossed appearance

APPLICATIONS

Furniture/Interior and exterior design/Packaging/Floor protection
 Structural use: No

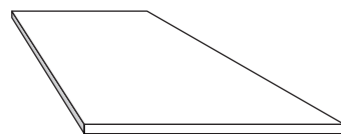
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1
 Reaction to fire: E
 Use class: Class 1 dry environment
 CE marking 4 NF EN 13986

SERVICE

Cutting and finishing services on request

PROFILE



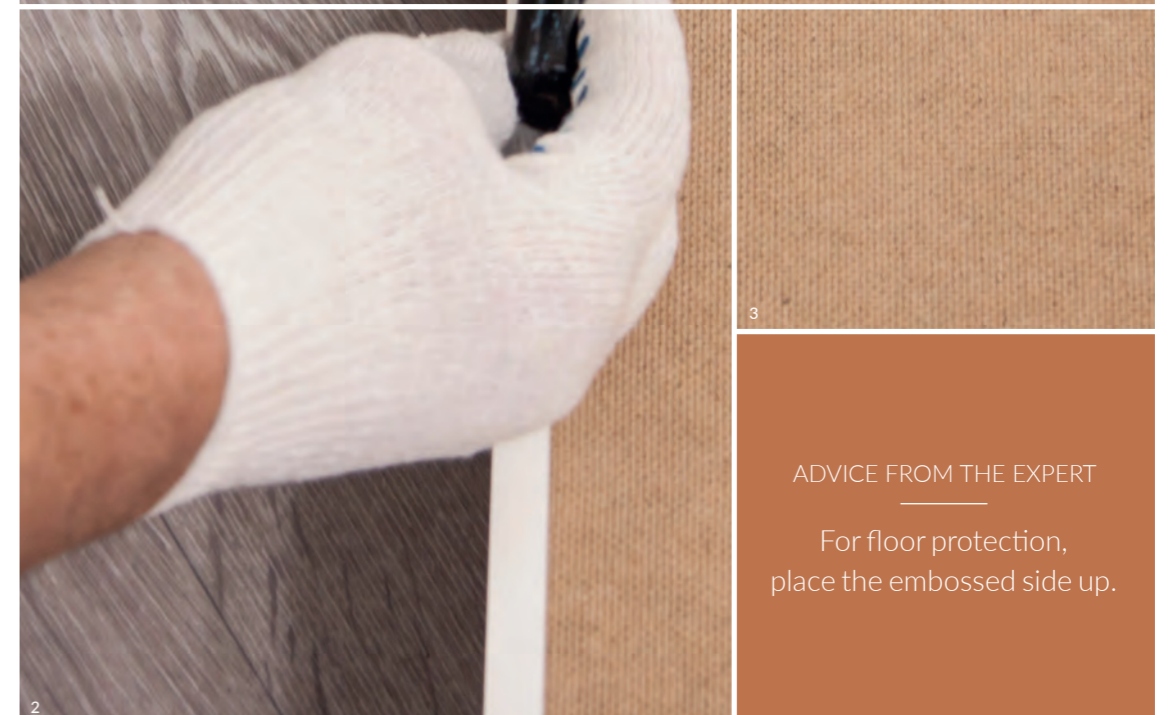
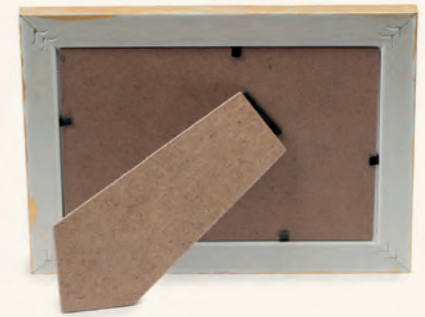
PRODUCT AVAILABILITY



FORMATS	TH.
2.44 x 1.22 m	3.2 mm
2.75 x 1.22 m	3.2 mm

+FEATURES

A 100% natural panel!
 Wood fibres are bonded with the starch naturally contained in wood cellulose.



ADVICE FROM THE EXPERT
 For floor protection,
 place the embossed side up.

COMPLIANCE AND GUARANTEES



*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)

1. Photo frame background/2. Drawer bottom/3. Focus on materials

PROCESS PANELS

OSB/3

CHARACTERISTICS

Composition: strips of wood oriented in 3 criss-cross layers (80% softwood, 20% hardwood)

APPLICATIONS

Interior joinery/Interior and exterior design/Crating/
Packaging
Structural use: Yes

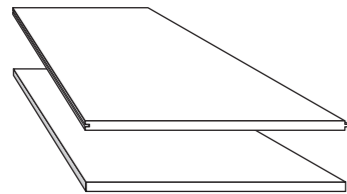
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1
Reaction to fire: D-s2, d0 if th. > 9 mm
Use class: Class 2 dry/wet environment
CE marking 2+ NF EN 13986

SERVICES

On request:
OSB/4
Fire-resistance
Anti-termite treatment

PROFILES



PRODUCT AVAILABILITY

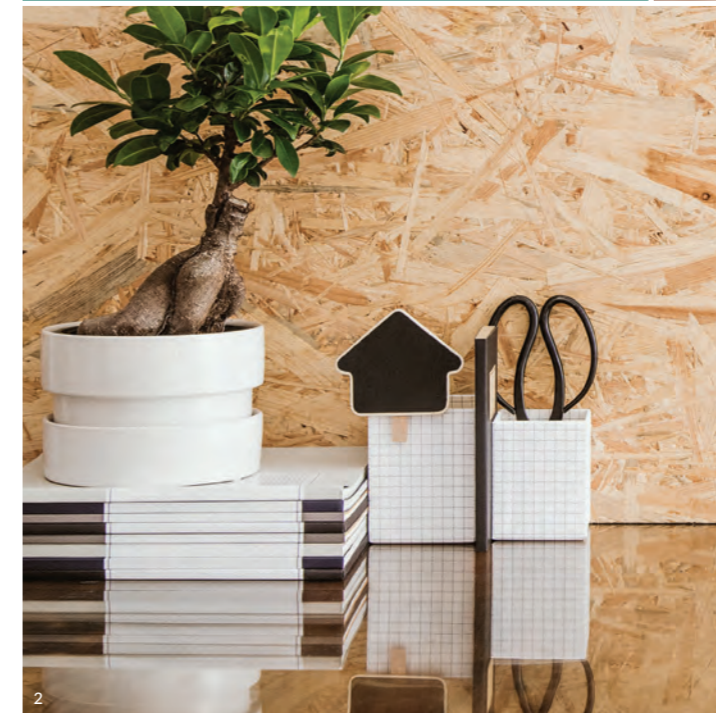


FORMATS	TH.
2.50 x 1.25 m	9 mm
	12 mm
	15 mm
	18 mm
	22 mm
5.00 x 2.50 m	25 mm
	12 mm
	15 mm
	18 mm

Other formats pages 30-31

+FEATURES

Good value for money for a multi-purpose, very low-emission panel that can be used for both cladding and industrial packaging.



ADVICE FROM THE EXPERT

The A+ rating indicates the best emissivity class for indoor use.



1. OSB panels/3/2 and 3. Interior walls in OSB/3

COMPLIANCE AND GUARANTEES



*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)



PROCESS PANELS

STANDARD AND STAINED MDF

CHARACTERISTICS

Composition: Bonded fine flake board
 Colour: Black, Light grey, Dark grey, Blue, Red, Orange, Green, Yellow, Brown

APPLICATIONS

Interior joinery
 Structural use: No

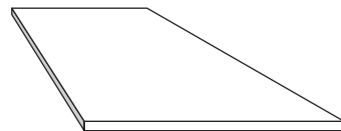
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1
 Reaction to fire: D-s2, d0 if Th.> 9 mm
 Use class MDF: Class 1 dry environment
 Use class STAINED MDF: Class 2 dry/wet environment
 CE marking 4 NF EN 13986

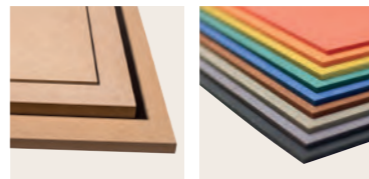
SERVICES

Split pallet
 Cutting service on request

PROFILE



PRODUCT AVAILABILITY



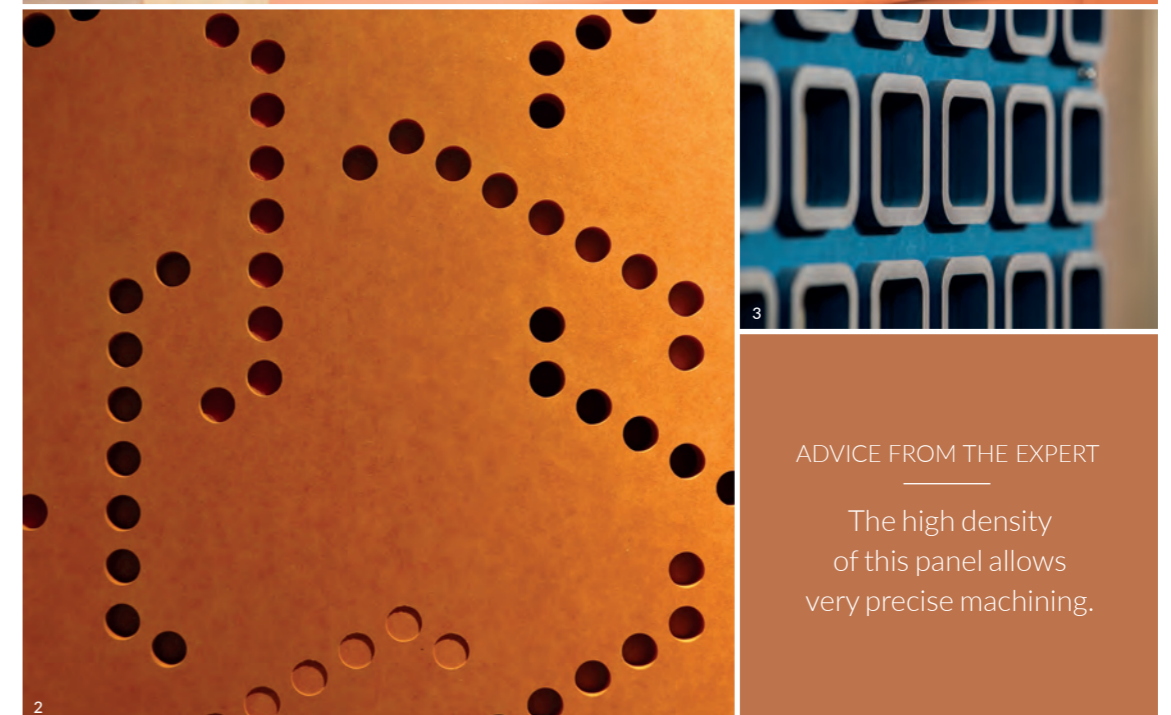
Standard

Stained

FORMATS	TH.	PRODUCT	
		STANDARD	STAINED
2.80 x 2.07 m	10 mm	✓	-
	12 mm	✓	-
	16 mm	✓	-
	19 mm	✓	-
	22 mm	✓	-
	25 mm	✓	-
2.44 x 1.83 m	5 mm	-	✓
	8 mm	-	✓
	16 mm	-	✓
	19 mm	-	✓

+FEATURES

A water-repellent panel that can be used in damp rooms. This panel is colour-impregnated. Scratches can therefore be repaired.



ADVICE FROM THE EXPERT

The high density of this panel allows very precise machining.

1. Bookcase in stained, multi-coloured mdf/2. Perforated orange-stained panel mdf/3. Machined blue and grey panels

COMPLIANCE AND GUARANTEES



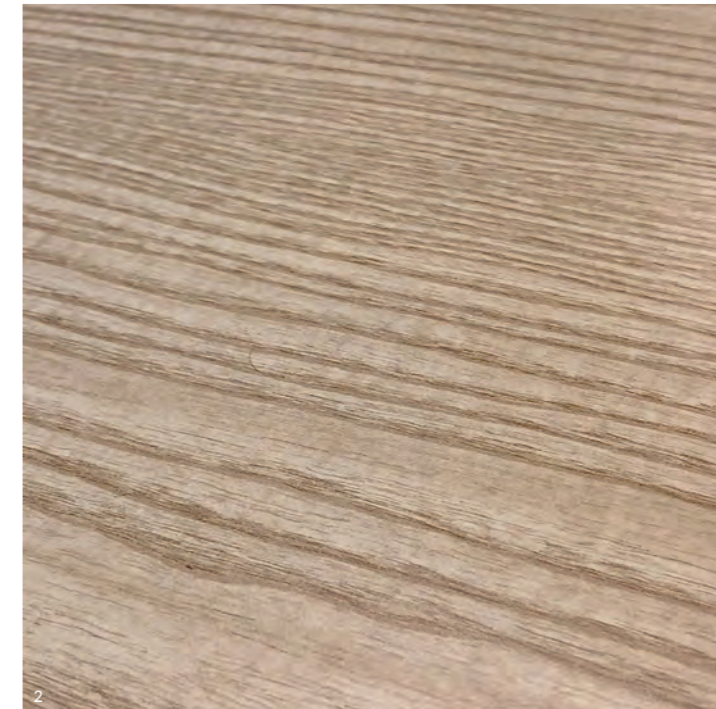
*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)

GLULAM PANELS

ASH, OAK, STEAM-TREATED BEECH, HEVEA

+FEATURES

The charm of a warm, natural wood panel combined with the ecological benefits of a renewable material.



ADVICE FROM THE EXPERT
This raw product requires a suitable finish before use: oil, varnish, saturator. These finishes can be neutral or coloured.



1. Beech/2. Oak/3. Hevea/4. Work surface

FITTINGS

CHARACTERISTICS

- ASH**
Composition: 100% Ash
Grade side: A/B
- OAK**
Composition: 100% Oak
Grade side: A/B
- STEAM-TREATED BEECH**
Composition: 100% Beech
Grade side: A/B
- HEVEA**
Composition: 100% Hevea
Grade side: A/B

APPLICATIONS

- Interior joinery
- Structural use: No

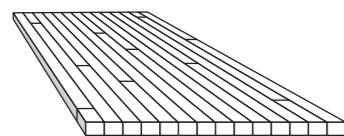
PERFORMANCES

- Formaldehyde emission (NF EN 717-2): E1
- Reaction to fire: D-s2, d0 if Th.> 9 mm
- Use class: Class 1 dry environment

SERVICE

- Cutting service on request

PROFILE



PRODUCT AVAILABILITY



Ash Oak



Steam-treated Beech Hevea

FORMAT	TH.	SPECIES			
		ASH	OAK	BEECH	HEVEA
4.50 x 1.10 m	15 mm				✓
	18 mm	✓	✓	✓	✓
	22 mm	✓	✓	✓	✓
	30 mm				✓
	33 mm	✓	✓	✓	✓
	40 mm				✓
	44 mm	✓	✓	✓	✓
	56 mm				✓



THE ESSENTIAL

- Hevea square rafter
- 70 x 70 mm
- Light colour
- Hardwood - Fine grain
- Used in the manufacture of staircases, interior joinery and interior/exterior design

COMPLIANCE AND GUARANTEES



*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)

* Hevea certification subject to availability

3-PLY PANELS

NORWAY SPRUCE, LARCH, DOUGLAS FIR, PINE

+FEATURES

Available in large sizes for your made-to-measure cut-outs, 3-ply panels enable real optimisation of material and storage.



FITTINGS

CHARACTERISTICS

NORWAY SPRUCE

Composition: 100% Norway Spruce
Grade side: 0/A /B/C+/C/D

LARCH

Composition: 100% Austrian Larch
Grade side: A/B/C+

DOUGLAS

Composition: 100% Douglas Fir
Grade side: A/B/C+/C

RED PINE

Composition: 100% Pine
Grade side: 0/B/C+

APPLICATIONS

Structure/Facade/Interior design/Furniture
Structural use: Yes

PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1

Reaction to fire: D-s2,d0

Use class Norway Spruce/Larch/Pine: Class 2 dry/ outdoor sheltered environment

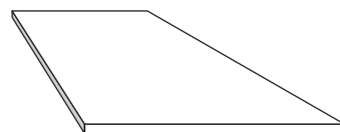
Use class Douglas fir: Class 3 wet or outdoor environment

CE marking 2+ NF EN 13986

SERVICES

On request:
Cutting services
Fire-resistant if Th. of 15 to 42 mm

PROFILE



PRODUCT AVAILABILITY



Douglas fir Norway Spruce



Larch Pine

FORMATS	TH.	PRODUCTS			
		NORWAY SPRUCE	LARCH	DOUGLAS FIR	PINE
5.00 x 2.05 m	13 mm	✓			
	16 mm	✓			
	19 mm	✓	✓	✓	✓
	22 mm	✓			
	26 mm		✓	✓	
5.00 x 1.25 m	27 mm	✓			✓
	32 mm	✓	✓		
	35 mm	✓			
	42 mm	✓	✓		
	49 mm	✓			
	60 mm	✓			



ADVICE FROM THE EXPERT

For outdoor use, Larch and Douglas fir, which are naturally durable, are the most suitable species.

1. Pine 3-ply panels/2 and 3. Product focus on Norway Spruce, Larch and Douglas fir



*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)



SHELF

PINE, NORWAY SPRUCE

CHARACTERISTICS

PIN

Composition: 100% Elliot pine
Grade side: Rustic

NORWAY SPRUCE

Composition: 100% Norway Spruce
Grade side: A/B

APPLICATIONS

Interior design/Furniture

Structural use: No

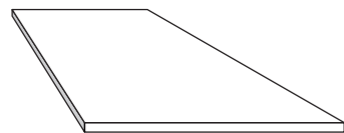
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E1

Reaction to fire: D-s2,d0

Use class: Class 2 dry/wet environment

PROFILE



PRODUCT AVAILABILITY



Pine

Norway Spruce

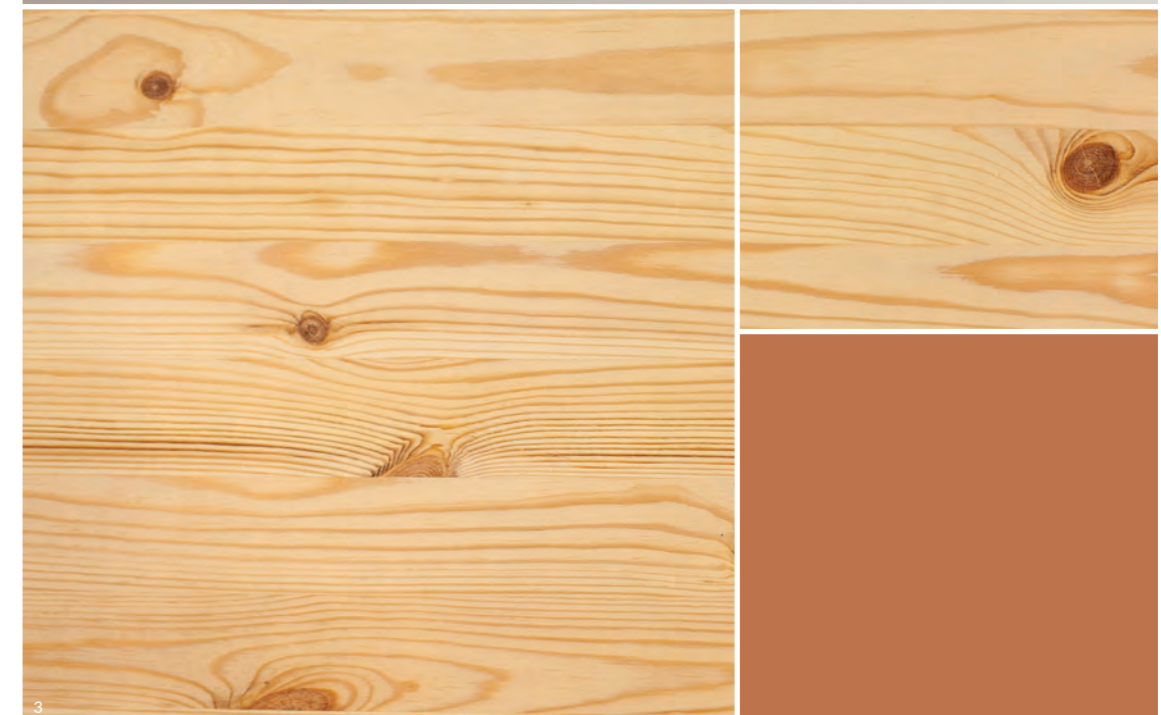
FORMATS	TH.	PRODUCTS	
		PINE	NORWAY SPRUCE
2.00 x 0.20 m	18 mm	✓	
2.00 x 0.30 m		✓	✓
2.00 x 0.40 m		✓	✓
2.00 x 0.50 m		✓	✓
2.00 x 0.60 m		✓	✓

+FEATURES

A very affordable, multi-purpose solid wood product.



2



3

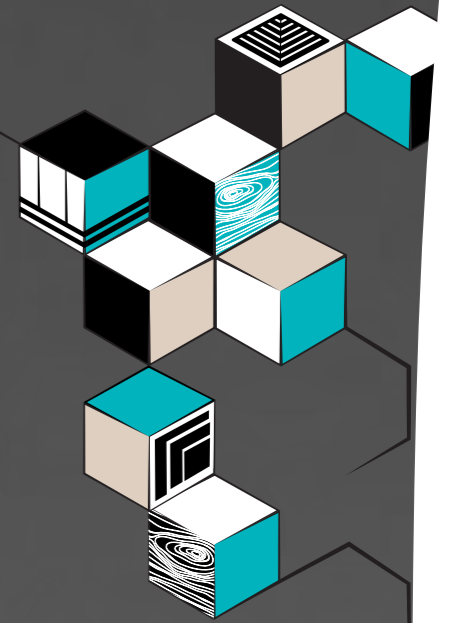
COMPLIANCE AND GUARANTEES



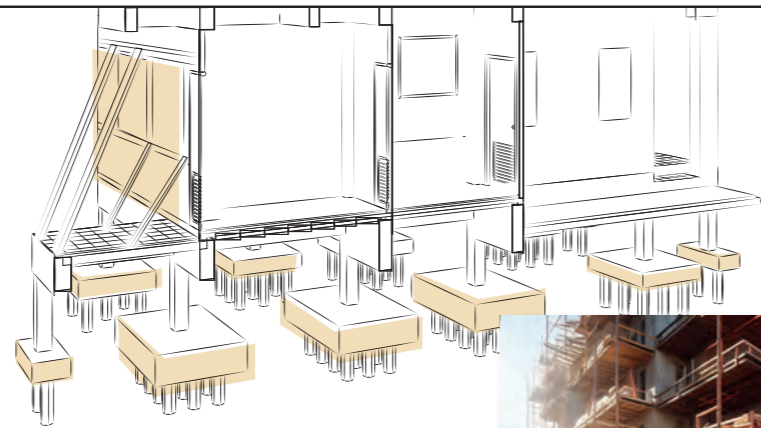
*Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)



FORMWORK



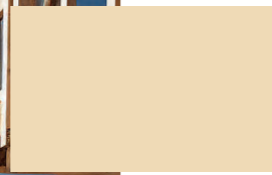
INSPIRATION

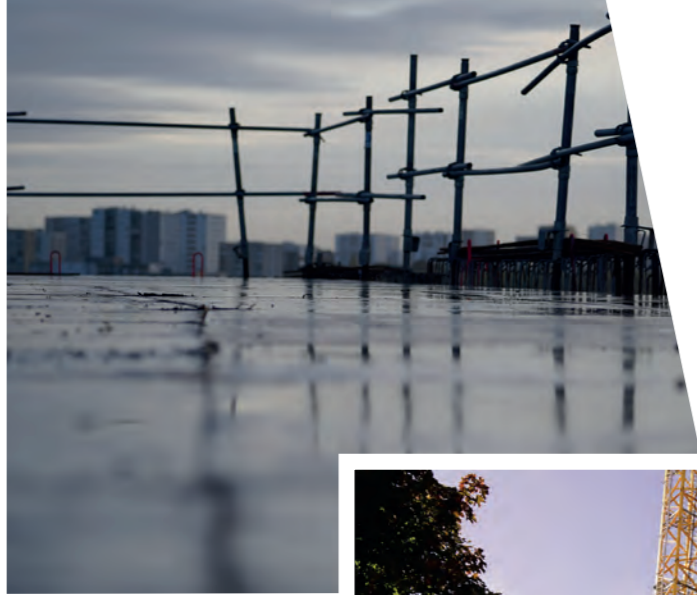


☞ Perfection is in the details,
☞ and perfection is not a detail.
Léonard Da Vinci



WHERE IT ALL
BEGINS





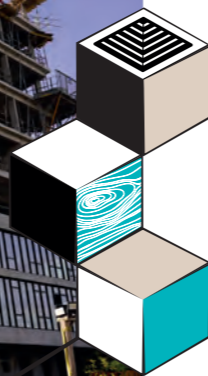
FLORENT DAVID

Manager of the AGH Group



PROFILE

The AGH Group is a specialist in formwork and floor shoring, based in Puceul in the Loire-Atlantique region. It now employs 200 people and provides formwork system rental, installation and sales services.




Specialising in formwork and shoring since 2004, the AGH Group has become a recognised benchmark in the construction industry. Every year, our teams form nearly 1 million m² of flooring!

The choice of our products is essential to guarantee a quality service to our customers. AGH offers a complete range of 15 mm plywood to meet the needs of every site. The references proposed are systematically adapted (quality and re-use) according to the desired use. We work on all types of project: mainly housing, which accounts for 60% of our business, but also offices, industrial and multi-use buildings.

Our projects demand a perfect finish, particularly in relation to housing, and the renewed confidence of our customers demonstrates that our group is committed to providing quality services using rigorously selected products.

AGH works with Sinbpla on film-coated plywood with complete confidence, and we are fully satisfied with our commercial relations and logistics service.

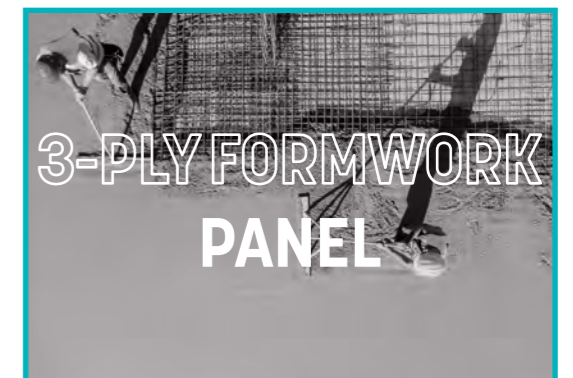
A rigid, stable panel. The core of the panel is made up of jointed ply to prevent moisture penetration. The price of the panel in relation to the number of uses is optimal.

 See you on p.84!



Its format makes it particularly practical on site. The panel is both rigid and stable, but is also easy to handle. Ideal for hard-to-reach areas.

 See you on p.90!



SKYLTy® FORM PLYWOOD

POPLAR

CHARACTERISTICS

FORM 1

Composition: 100% Poplar (1 press cycle)
Film-coated side 120 g
Film-coated back veneer 120 g

FORM 2+

Composition: 100% Poplar (2 press cycles)
Film-coated side 120 g
Film-coated back veneer 120 g

APPLICATIONS

Formwork only
Structural use: No

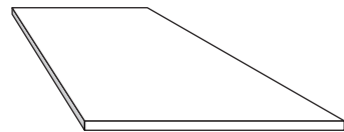
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E2
Reaction to fire: D-s2, d0 if Th.> 9 mm
Use class: Class 3 wet environment

SERVICE

Other formats on request

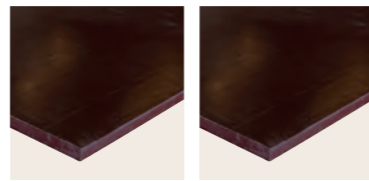
PROFILE



COMPLIANCE AND GUARANTEES



PRODUCT AVAILABILITY



FORM 1

FORM 2+



FORMAT	TH.	PLY-RATING	
		FORM 1	FORM 2+
	15 mm	9	9
2.50 x 1.25 m	18 mm	11	11
	21 mm	-	13

+FEATURES

The most affordable product for formwork.



ADVICE FROM THE EXPERT

SkyLty® Form 1 Form 1 is for single use only. SkyLty® Form 2+ can be used 2 or more times.

1 and 2 2+ plywood

SKYLTY® FORM PLYWOOD

EUCALYPTUS, POPLAR

CHARACTERISTICS

FORM 4+
Twin Composition Eucalyptus/Poplar
Film-coated side 120 g
Film-coated back veneer 120 g

FORM 6+
Composition: 100% Eucalyptus
Film-coated side 170 g
Film-coated back veneer 170 g

APPLICATIONS

Formwork
Structural use: No

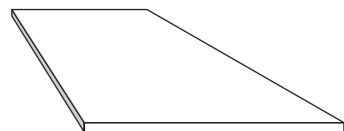
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E2
Reaction to fire: D-s2, d0 if Th.> 9 mm
Use class: Class 3 wet environment

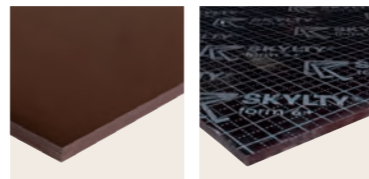
SERVICE

Other formats on request

PROFILE



PRODUCT AVAILABILITY



FORM 4+



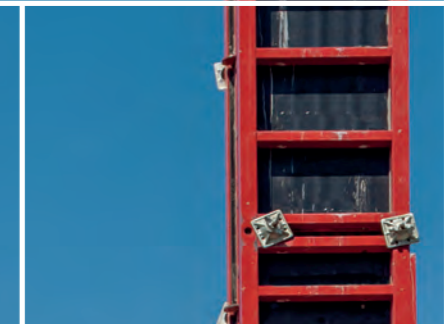
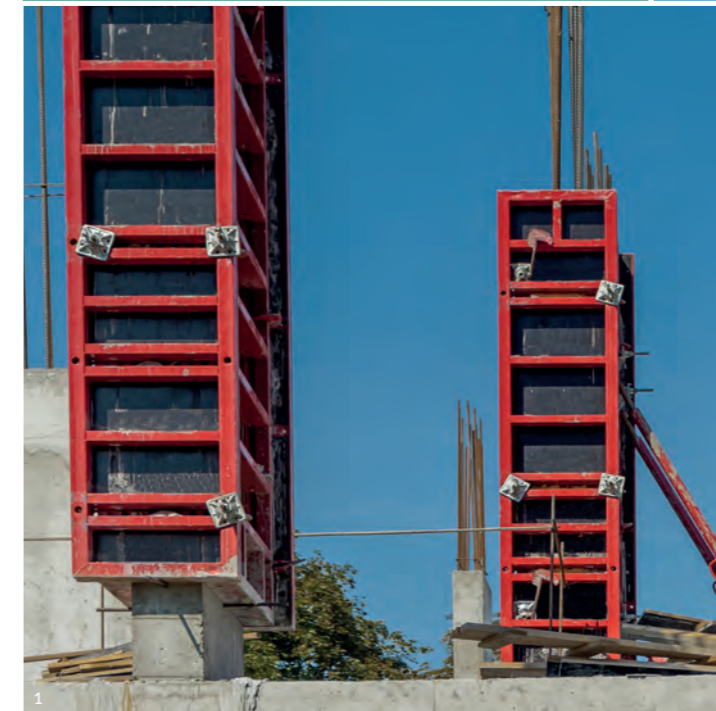
FORM 6+



FORMATS	TH.	PLY-RATING	
		FORM 4+	FORM 6+
2.50 x 1.25 m	9 mm	5	5
	15 mm	9	9
	18 mm	11	11
	21 mm	-	13
3.00 x 1.50 m	9 mm	-	5
	15 mm	-	9
	18 mm	-	11
	21 mm	-	13

+FEATURES

The best value for money!
Because it can be re-used.



ADVICE FROM THE EXPERT

If you have to cut the edges, remember to protect them with water-repellent paint.



1 and 2 6+ plywood

COMPLIANCE AND GUARANTEES



SKYLTY® FORM PLYWOOD

HARDWOOD, BIRCH

CHARACTERISTICS

FORM 8+

Composition: Hardwood (Eucalyptus/Acacia/Gmelina)
 Film-coated side 167 g
 Film-coated back veneer 167 g

FORM 10+

Composition: 100% Birch
 Film-coated side 120 g
 Film-coated back veneer 120 g

APPLICATIONS

Formwork/Bodywork
 Structural use: No

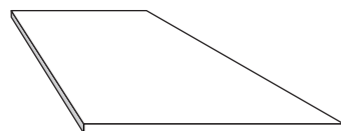
PERFORMANCES

Formaldehyde emission (NF EN 717-2): E2
 Reaction to fire: D-s2, d0 if Th. > 9 mm
 Use class: Class 3 wet environment

SERVICE

Other formats on request

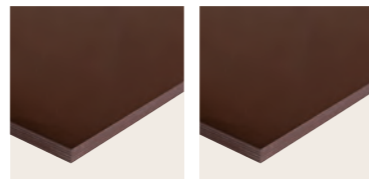
PROFILE



COMPLIANCE AND GUARANTEES



PRODUCT AVAILABILITY



FORM 8+

FORM 10+



FORMATS	TH.	PLY-RATING	
		FORM 8+	FORM 10+
2.50 x 1.25 m	9 mm	-	7
	12 mm	-	9
	15 mm	9	11
	18 mm	11	13
3.00 x 1.50 m	21 mm	-	15
	9 mm	-	7
	12 mm	-	9
	15 mm	-	11
	18 mm	-	13
	21 mm	-	15

+FEATURES

A high-quality formwork panel specifically for exposed concrete. Its high density greatly reduces the risk of punching.



ADVICE FROM THE EXPERT

If you have to cut the edges, remember to protect them with water-repellent paint.

1 and 2 10+ plywood

FORMWORK BEAM

H20

CHARACTERISTICS

Composition: 100% Norway Spruce + protective end caps
 Core: 3-ply Norway Spruce panel
 Tie beams: Norway Spruce

APPLICATIONS

Formwork
 Structural use: No

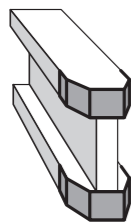
PERFORMANCES

Use class: Class 3 wet environment
 Complies with standard NF EN 13377

SERVICE

Other lengths and formats on request

PROFILE



PRODUCT AVAILABILITY



FORMAT	LENGTHS
80 x 200 mm	1.95 m
	2.45 m
	2.90 m
	3.30 m
	3.60 m
	3.90 m
	4.90 m
6.00 m	

+FEATURES

A wide range of lengths are available, to meet site requirements as closely as possible.



ADVICE FROM THE EXPERT

Use class 3 allows outdoor use and temporary exposure to the elements; however, care must be taken to ensure that there is no prolonged contact with the ground, particularly during storage.

COMPLIANCE AND GUARANTEES



3-PLY PANEL

FORMWORK

CHARACTERISTICS

NORWAY SPRUCE

Composition: 100% Norway Spruce
Grade side: B

RADIATA PINE

Composition: 100% Radiata Pine
Grade side: B

APPLICATIONS

Formwork

Structural use: No

PERFORMANCES

Formaldehyde emission (NF EN 717-2): E2

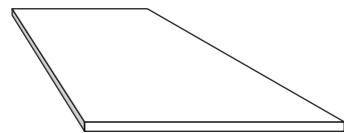
Reaction to fire: D-s2,d0

Use class: Class 3 wet environment

SERVICE

Other formats and thicknesses on request

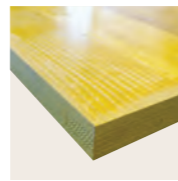
PROFILE



COMPLIANCE AND GUARANTEES



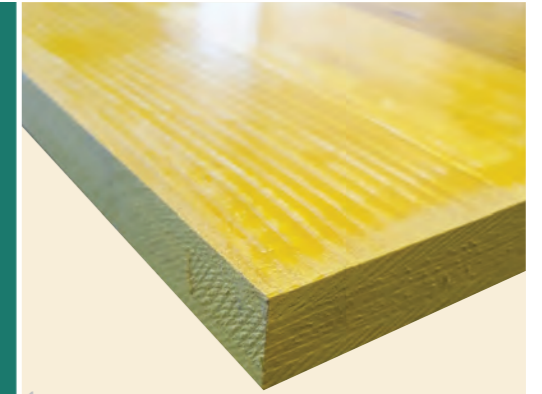
PRODUCT AVAILABILITY



FORMATS	LENGTHS	SPECIES	
		NORWAY SPRUCE	RADIATA PINE
21 x 300 mm	2.00 m		✓
21 x 500 mm	2.50 m		✓
27 x 300 mm	3.00 m	✓	
27 x 500 mm			

+FEATURES

The real strength of this product lies in its ease of handling.



ADVICE FROM THE EXPERT

Remember to clean the panels between each formwork use.



1. Product focus/2 and 3. Formwork

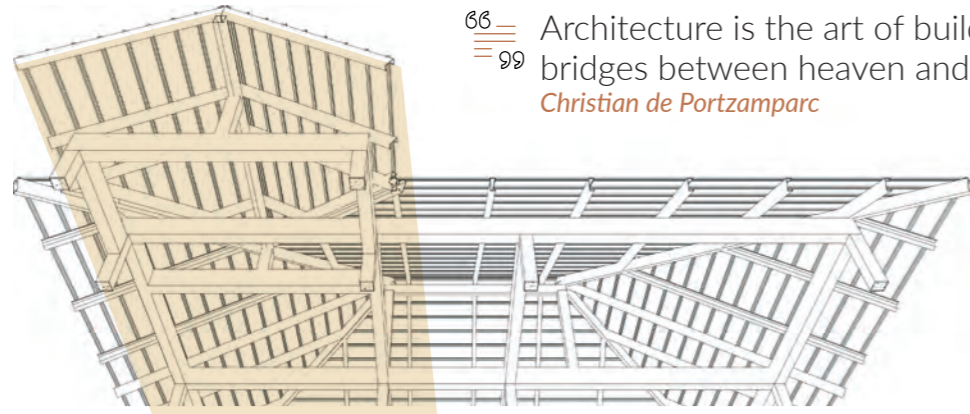
ROOFING FRAME JOINERY



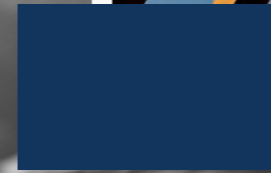
INSPIRATION



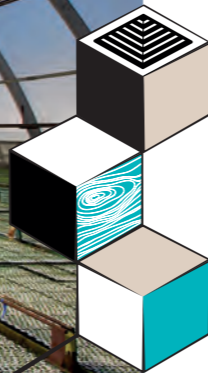
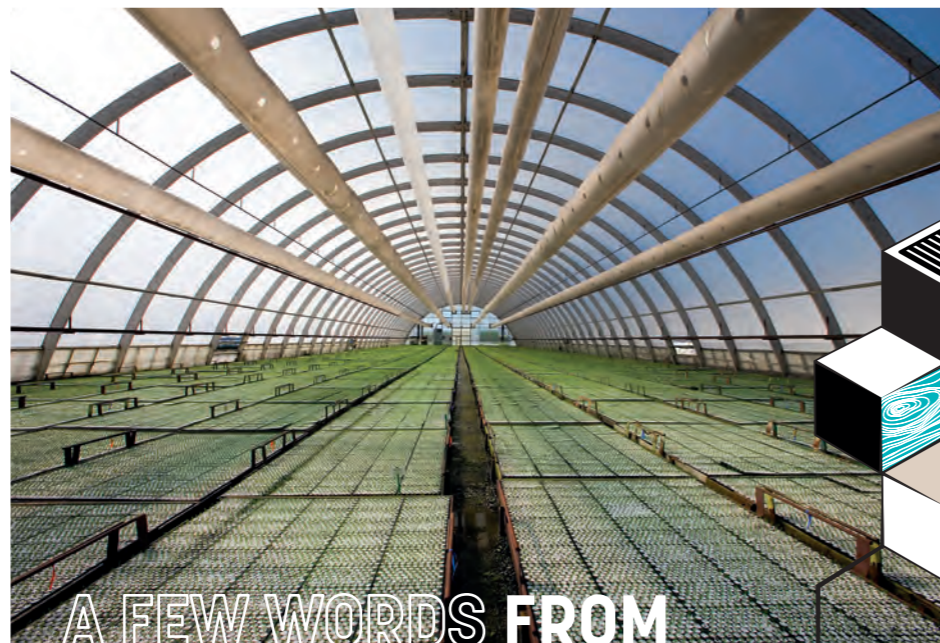
Architecture is the art of building bridges between heaven and earth.
Christian de Portzamparc



IT LIFTS UP
AND REVEALS ITSELF



SELECTION



A FEW WORDS FROM

FREDRIK PERSSON

Site manager at the Tunadal sawmill in Sweden
SCA WOOD AB



ABOUT

Founded in 1929, SCA is Europe's largest private forest owner. As a partner and supplier to ISB, it has also been a shareholder in the Group since 2019.

GREAT PRODUCTS AND OUTSTANDING INGREDIENTS!

At SCA, we pride ourselves on the quality of the sawn timber we supply - slow-growing, with small twigs, tight annual rings and consistent quality. Yes, wood is beautiful! And that's not all, it's sustainable and binds carbon dioxide, making it even better. An impressive figure: the growth of SCA's forests, combined with the wood products placed on the market, fixes as much carbon dioxide as the annual emissions of all Swedish cars, i.e. 10.4 million tonnes!

But how do we achieve this premium quality? You can't sublimate something bad, which is why we source our raw material from northern Sweden, one of the best regions in Europe for high-quality Norway Spruce.

However, the forest alone is not enough. That's why, from the outset, it is carefully maintained and managed by SCA until the trees are ready to be felled. The cycle then starts again, with each tree felled being replaced by at least two new trees. The second impacting figure: every year, SCA grows 100 million seedlings in its plantations, which can then replace felled trees and contribute to the regeneration of our forests.

The appearance and colours of red cedar, from dark red to light brown, make it one of the most beautiful softwoods. A naturally durable species, perfectly suited to roofing.

See you on p102!



SHAKES AND SHINGLES RED CEDAR

Thanks to its slow growth, Northern Spruce has exceptional mechanical properties and appearance. Drying ensures high dimensional stability.

See you on p108!



CARPENTRY TIMBER NORWAY SPRUCE

The design of this product, using end-to-end positioning and bonding, makes it possible to create joinery uprights with very high stability.

The intrinsic properties of Scots Pine ensure excellent durability.

see you on p114!



JOINERY SQUARE RAFTERS

RAFTERS & BATTENS

NORWAY SPRUCE

CHARACTERISTICS

- Calibrated fine sawing
- Dry wood

APPLICATION

- Roof

PERFORMANCES

- Mechanical class C18 or C24 for rafters
- CE marking NF EN 14081

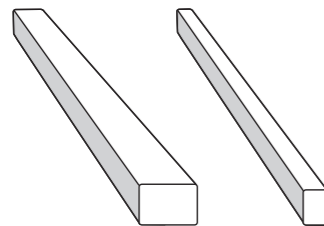
SERVICE

- Preservation up to Class 3.1 on request

PROFILES

Rafter

Battens



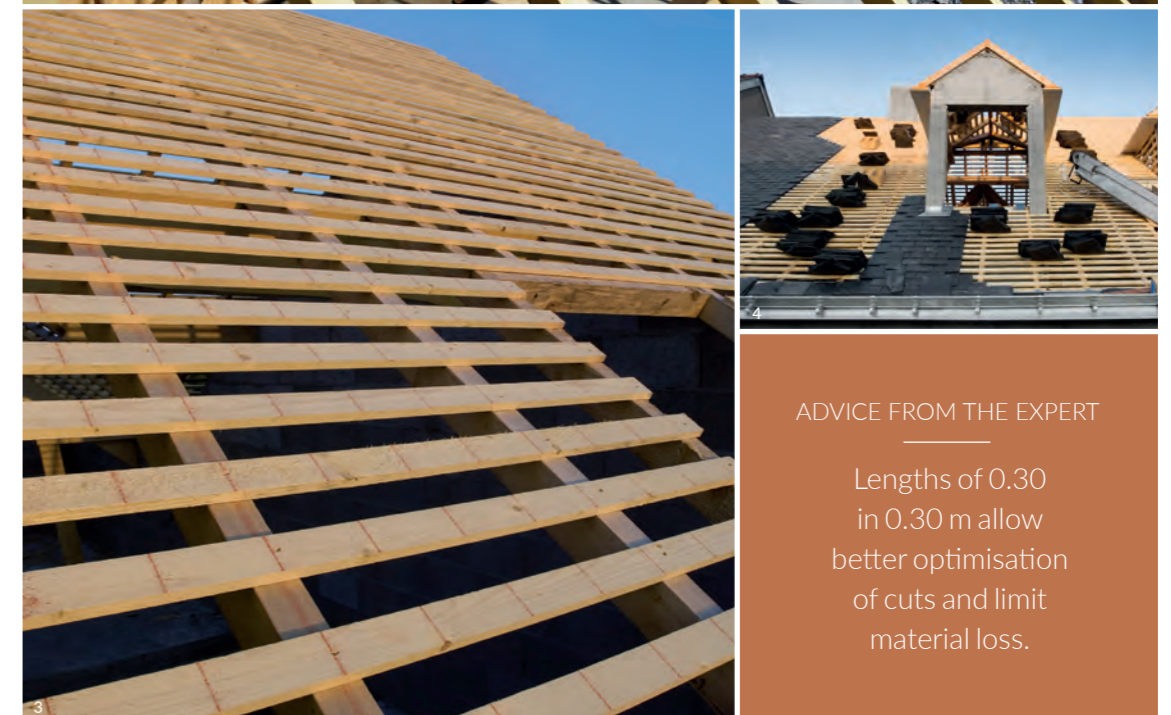
PRODUCT AVAILABILITY



PRODUCT	TH.	WDTH.	MECH. CLASS
RAFTER	50 mm	75 mm	C18 or C24
		50 mm	
	63 mm	44 mm	
		75 mm	
BATTEN	13 mm	38 mm	-
	15 mm	38 mm	
		50 mm	
	18 mm	38 mm	
		50 mm	
	20 mm	32 mm	
		38 mm	
	22 mm	38 mm	
		27 mm	
		32 mm	
	25 mm	38 mm	
		50 mm	
	32 mm	-	
27 mm	38 mm		
32 mm	32 mm		
	38 mm		
	38 mm	-	
38 mm	50 mm		

+FEATURES

The bundled rafters and battens are easy to handle on site. The dry wood rafters are dimensionally stable.



ADVICE FROM THE EXPERT

Lengths of 0.30 in 0.30 m allow better optimisation of cuts and limit material loss.

1 and 2 Rafters/3 and 4. Battens

COMPLIANCE AND GUARANTEES



BOARDS

NORWAY SPRUCE

CHARACTERISTICS

Fine sawing

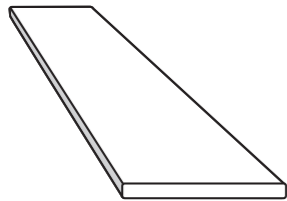
APPLICATION

Roof

SERVICE

Preservation up to Class 3.1 on request

PROFILE



PRODUCT AVAILABILITY



TH.	WDTH.
14 mm	100 mm
	150 mm
	200 mm
18 mm	100 mm
	150 mm
	200 mm

+FEATURES

Because of its properties, Norway Spruce is particularly well suited to the production of roof boarding, but also as a support for zinc or steel cladding.



ADVICE FROM THE EXPERT

Choose your lengths according to the project to optimise material yield.

1 and 2 Boards, external view/3 and 4. Boards, interior view

COMPLIANCE AND GUARANTEES



SHAKES-SHINGLES

RED CEDAR

CHARACTERISTICS

Untreated, naturally durable Class 3.2
Fresh sawn timber

Shakes: a board split along the grain,
with an irregular texture on the exposed side.

Shingles: a bevel-sawn board with a regular
appearance on both sides.

APPLICATIONS

Roof
Façade cladding

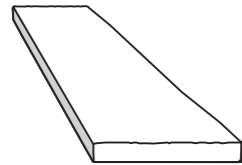
PERFORMANCE

Use class 3.2

SERVICE

Split pallet

PROFILE



PRODUCT AVAILABILITY



PRODUCT	TH.	WDTH.
SELECT SHAKES	13 mm	600 mm
MEDIUM SHAKES	13 mm	600 mm
JUMBO SHAKES	25 mm	600 mm
PERFECTION SHINGLES	11 mm	450 mm

+FEATURES

Thanks to a naturally durable species, these shingles withstand the test of time and the vagaries of the weather without additional treatment.



ADVICE FROM THE EXPERT

A minimum slope of 30% is recommended for the roof, please contact us for the maximum recommended purlins for double or triple overlap installation.

COMPLIANCE AND GUARANTEES



TIMBER FOR INDUSTRIAL FRAMES

NORWAY SPRUCE

CHARACTERISTICS

Dry wood at 20 +/- 2%

APPLICATION

Industrial frames (also known as light-frame trusses)

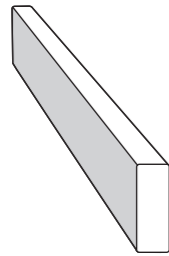
PERFORMANCE

Mechanical class C24 in accordance with NF EN 14081-14081

SERVICES

Preservation up to Class 3.1 on request

PROFILE



PRODUCT AVAILABILITY



TH.	WDTH.	MECH. CLASS
36 mm	60 mm	C24
36 mm	72 mm	
36 mm	97 mm	
36 mm	112 mm	
36 mm	122 mm	
36 mm	147 mm	
36 mm	197 mm	
36 mm	222 mm	

+FEATURES

Durable, high-quality Norway Spruce. Drying at 18% ensures dimensional stability and prevents warping.



ADVICE FROM THE EXPERT

In accordance with standard NF EN 335, these woods must be preserved by soaking in class 2 before installation.

COMPLIANCE AND GUARANTEES



GLULAM TIMBER

NORWAY SPRUCE, SCOTS PINE

CHARACTERISTICS

12% dry natural wood
 Quality: Northern pine sawfalling

APPLICATION

Manufacture of GluLam Timber (GLT)

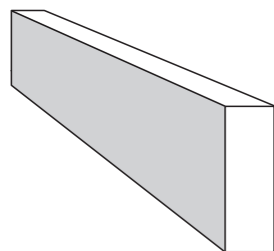
PERFORMANCE

Mechanical class C24 or C30 in accordance with NF EN 14081

SERVICE

Possibility of Class 4 preservation + drying for Scots Pine

PROFILE



PRODUCT AVAILABILITY

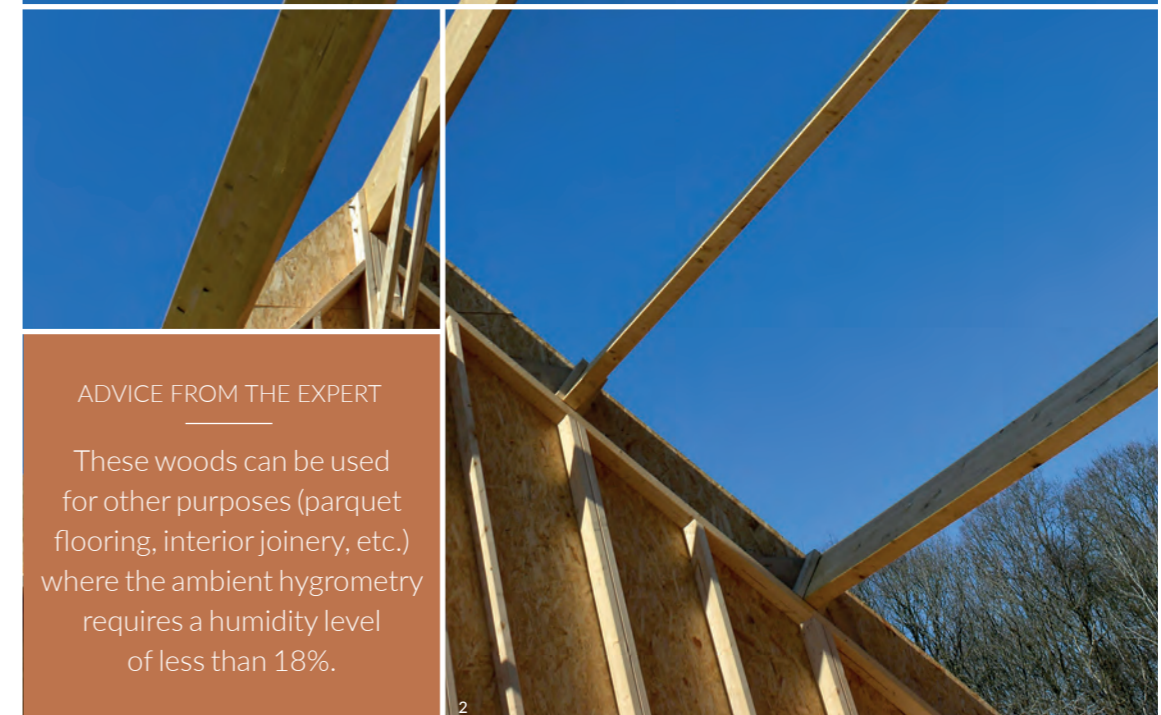
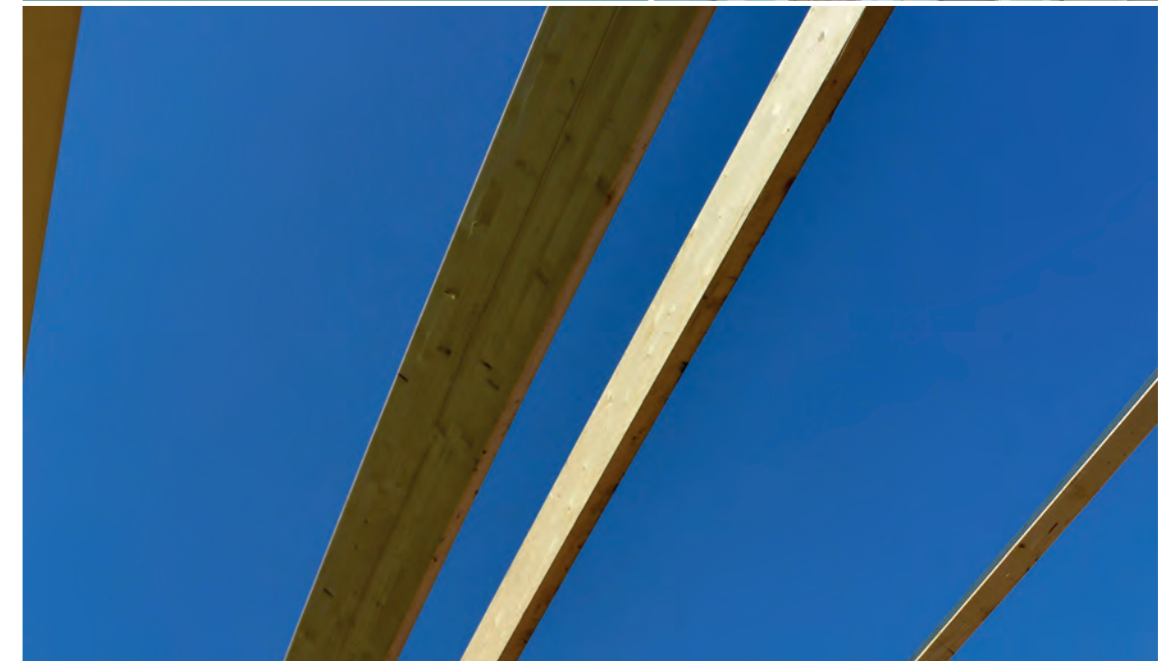


Norway Spruce Scots Pine

SPECIES	TH.	WDTH.	MECH. CLASS
NORWAY SPRUCE	50 mm	100 mm	C24 or C30
		115 mm	
		125 mm	
		150 mm	
		175 mm	
		200 mm	
SCOTS PINE	38 mm	100 mm	C24
		115 mm	
		125 mm	
		150 mm	
		175 mm	
		200 mm	
		225 mm	

+FEATURES

High-performance timber for the demanding manufacture of glulam: Northern timber, controlled properties and drying at 12% for high-frequency gluing.



ADVICE FROM THE EXPERT

These woods can be used for other purposes (parquet flooring, interior joinery, etc.) where the ambient hygrometry requires a humidity level of less than 18%.

1. glued elements for floor structures / 2. glued elements for framework structures

COMPLIANCE AND GUARANTEES



CARPENTRY TIMBER

NORWAY SPRUCE

CHARACTERISTICS

Dry wood at 20 +/- 2%

APPLICATION

Traditional framework

PERFORMANCE

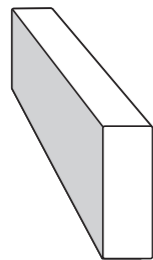
Mechanical class C18 or C24 in accordance with NF EN 14081

SERVICES

Special drying at 12% on request

Preservation up to Class 3.1 on request

PROFILE



PRODUCT AVAILABILITY



PRODUCT	TH.	WDTH.	MECH. CLASS
BOARD/SLAT	25 mm	100 mm	C18 or C24
		150 mm	
		200 mm	
		225 mm	
JOIST/ SMALL JOIST	32 mm	100 mm	C18 or C24
		150 mm	
		175 mm	
		200 mm	
		150 mm	
		38 mm	
BATTEN	50 mm	150 mm	C24
		200 mm	
		150 mm	
		175 mm	
		200 mm	
BEAM	75 mm	200 mm	C24
		225 mm	
		250 mm	
		300 mm	
BEAM	100 mm	250 mm	C24
		300 mm	
		300 mm	

+FEATURES

Scandinavian Spruce has remarkable mechanical properties resulting from its slow growth. The finest qualities are selected and dried to ensure stable, high-quality structural frames.



ADVICE FROM THE EXPERT

Standard NF EN 335 requires Class 2 wood to be preserved by soaking before fitting.

1. Components of a traditional roof structure

COMPLIANCE AND GUARANTEES



JOINERY TIMBER

NORWAY SPRUCE, SCOTS PINE

CHARACTERISTICS

Dry wood at 20 +/- 2%
 Quality: US-Unclassified, Sawfalling

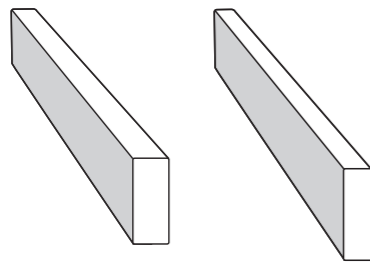
APPLICATION

Interior and exterior joinery

SERVICES

Other sections and qualities on request
 Special drying on request (depending on species)

PROFILES



COMPLIANCE AND GUARANTEES



PRODUCT AVAILABILITY

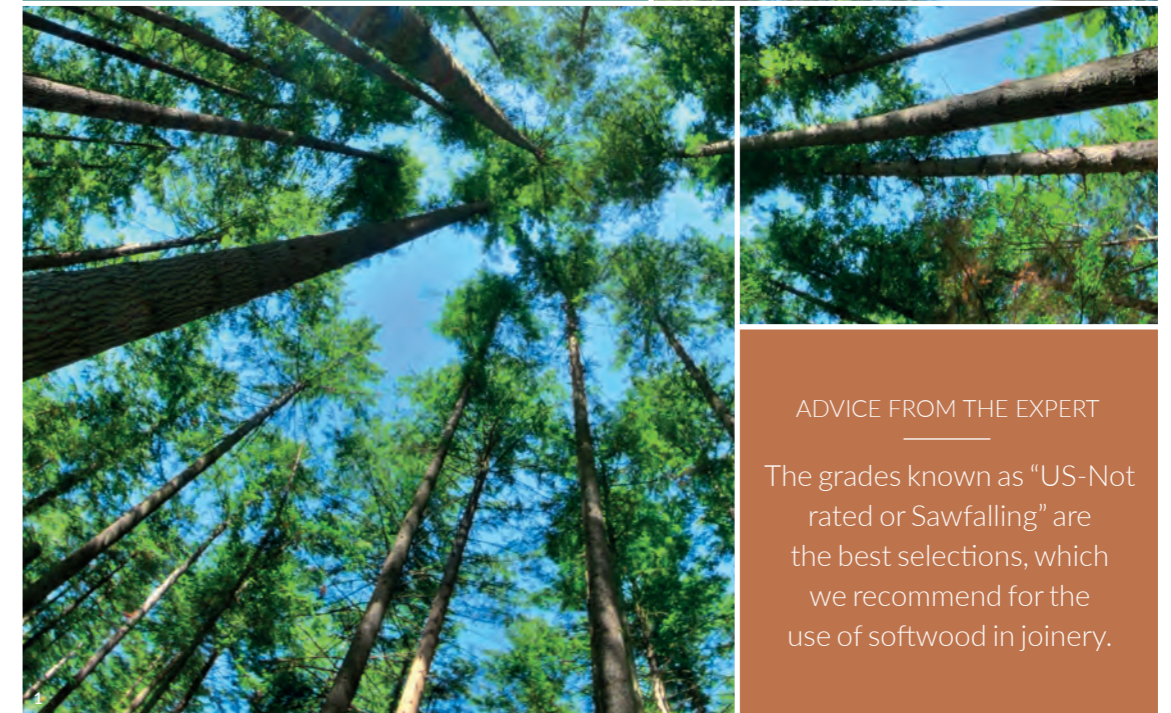
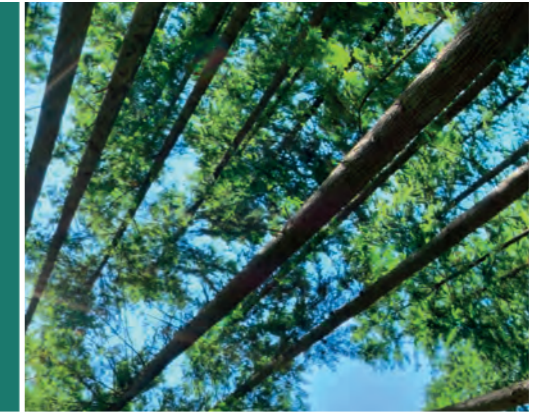


Norway Spruce Scots Pine

SPECIES		TH.	WDTH.
NORWAY SPRUCE	SCOTS PINE		
✓		22 mm	100 mm
✓			125 mm
✓			135 mm
✓			150 mm
✓			175 mm
✓		200 mm	
✓		25 mm	100 mm
✓	✓		125 mm
✓	✓		150 mm
✓	✓		175 mm
✓	✓		200 mm
✓	✓	32 mm	225 mm
✓	✓		100 mm
✓	✓		115 mm
✓	✓		125 mm
✓	✓		150 mm
✓	✓	38 mm	175 mm
✓	✓		200 mm
✓	✓		225 mm
✓	✓		100 mm
✓	✓		115 mm
✓	✓	44 mm	125 mm
✓	✓		150 mm
✓	✓		175 mm
✓	✓		200 mm
✓	✓		225 mm
✓	✓	47 mm	100 mm
✓	✓		125 mm
✓	✓		150 mm
✓	✓		175 mm
✓	✓		200 mm
✓	✓	50 mm	115 mm
✓	✓		125 mm
✓	✓		150 mm
✓	✓		175 mm
✓	✓		200 mm
✓	✓	63 mm	225 mm
✓	✓		150 mm
✓	✓		160 mm
✓	✓		175 mm
✓	✓		200 mm
✓	✓	75 mm	225 mm
✓	✓		150 mm
✓	✓		175 mm
✓	✓		200 mm
✓	✓		225 mm
✓	✓	100 mm	200 mm
✓	✓		225 mm

+FEATURES

Northern Timber Quality for joinery!
 Remarkable properties for these certified woods, from a managed and renewed forest resource.



ADVICE FROM THE EXPERT

The grades known as "US-Not rated or Sawfalling" are the best selections, which we recommend for the use of softwood in joinery.



1. Pine forest/2. Package of sawn timber

JOINERY TIMBER

RED CEDAR, YELLOW PINE

CHARACTERISTICS

RED CEDAR
 Not dry or dry
 Clear no.2

YELLOW PINE
 Dry between 12 and 15%
 Quality: SAPS, Prime&Better

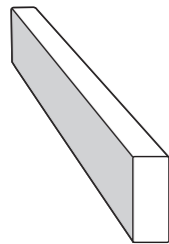
APPLICATION

Interior and exterior joinery

SERVICES

Other species and qualities on request
 Special drying on request (depending on species)

PROFILE



PRODUCT AVAILABILITY



Red Cedar

Yellow Pine

SPECIES	QUALITY	TH.	WDTH.
RED CEDAR	Clear 2 KD	22 mm	155 mm
	Solid Clear .2	22 mm	155 mm
	Clear 2 Fresh sawn	32 mm	105 mm
		45 mm	155 mm
YELLOW PINE	SAPS dry wood	105 mm	155 mm
		27 mm	305 mm
	S4S	32 mm	205 mm
		305 mm	305 mm
	SAPS dry wood	38 mm	285 mm
		43 mm	205 mm
			255 mm
305 mm		305 mm	
Premium and better dry wood	52 mm	205 mm	
	305 mm	305 mm	
	65 mm	255 mm	
		305 mm	305 mm

+FEATURES

Naturally durable, red cedar can be used for “100% natural” exterior structures. Yellow Pine is very aesthetic, with an exceptional “rambling” appearance.



ADVICE FROM THE EXPERT

Yellow Pine is recommended for interior joinery. For outdoor use, Class 4 preservation is recommended. To preserve the original colour of the red cedar, apply a saturator.



1. Focus on the grain and colour of red cedar / 2. Red cedar used for cladding / 3. Yellow Pine used for decks / 4. Yellow Pine Forest

COMPLIANCE AND GUARANTEE



Certification
 subject to availability

JOINERY SQUARE RAFTERS

SCOTS PINE

CHARACTERISTICS

- Solid wood slats, glued together
- Wood planed on 4 sides before gluing
- 12% dry natural wood

APPLICATIONS

- Interior and exterior joinery: uprights, cross joists, door frames and windows

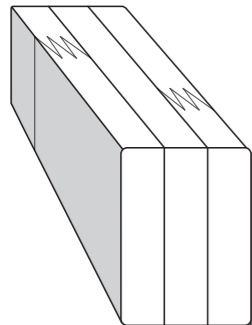
PERFORMANCES

- Gluing in accordance with DIN EN 204: water-repellent adhesive for stress class D4
- Men21/NF/Qualibat compatible

SERVICES

- Tarpaulin-covered packaging
- Other formats on request

PROFILE



PRODUCT AVAILABILITY



TH.	WDTH.
63 mm	75 mm
	86 mm
	95 mm
	105 mm
	115 mm
72 mm	125 mm
	145 mm
	75 mm
	86 mm
	95 mm
72 mm	105 mm
	115 mm
	125 mm
72 mm	145 mm

+FEATURES

The worry-free solution for joinery! The end-to-end positioning and gluing ensure perfect stability for long-lasting joinery.



ADVICE FROM THE EXPERT

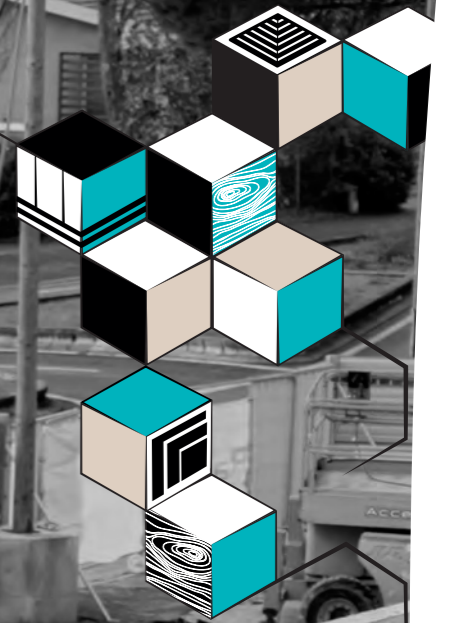
The proposed length of 6 m improves flow rate optimisation.

1. External joinery components / 2. Internal joinery components

COMPLIANCE AND GUARANTEES



TECHNICAL SPECIFICATIONS



OUR COMMITMENTS

CE MARKING

EUROPEAN STANDARD



For products subject to CE marking, Sinbpla complies with the European standards in force.



Find out more about our declarations of performance (DOP) at www.sinbpla.fr/services/espace-de-telechargement

EXTERIOR USE

10-YEAR GUARANTEE FOR THE TREATMENT



All Sinbpla treated products are guaranteed for 10 years for effective treatment.

CTB-B+ CERTIFICATION



Our treatment products and industrial processes are certified CTB-P+ and CTB-B+ respectively, guaranteeing controlled application within a regulated framework.

*excluding preservation Class 2

INTERIOR USE

INTERIOR AIR EMISSIONS: RATED A+



Information on the level of volatile substance emissions into indoor air, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions)

ENVIRONMENTAL COMMITMENT

ISB Group has owned the PEFC™ and FSC® (C051177) certifications chains for more than ten years. Our certifications are the result of a voluntary approach by the company and are renewed every year by an external audit.

More recently, the European Union Timber Regulation has entered into force. All our timber strictly complies with its requirements.



FSC®

FSC® certification focuses on the responsible management of forest resources. This certification is based on 10 founding principles that describe the management rules to be followed to ensure that forests meet the social, economic, environmental, cultural and spiritual needs of current and future generations. They encompass both management constraints and social and environmental requirements.



PEFC

The PEFC certification is committed to the sustainable management of forest resources. This certification is based on two complementary mechanisms: forest certification and certification of the companies that process the wood, to ensure the traceability of the material from the forest to the finished product.



RIGOROUS PROCUREMENT POLICY

Environmental protection is one of ISB Group's core values. It is impossible to work with wood and ignore the warnings about deforestation and ecology. Thus, since 2007, ISB Group has integrated environmental considerations, particularly in its procurement policy. We carefully screen our suppliers and incoming timber on our import platforms and in our factories.

EUTR

The European Union Timber Regulation (EUTR) is the European Union's key tool for combating the illegal timber trade. It was adopted on 20 October 2010 by the European Parliament and the Council and applies in full from 3 March 2013.

The EUTR involves:

- Improved traceability of the forest resource on an international scale.
- The use of legally certified wood to remove illegally harvested wood from the market.

In France, Le Commerce du Bois is the entity approved by the European Commission to verify compliance with the implementation of the EUTR. It proposes that companies implement due diligence systems and then carry out annual checks to ensure that the system is being properly applied. It shall take appropriate action in the event of inadequate use of their due diligence system, including notification to the competent authorities of any significant or repeated failure by an operator. A certificate of compliance is issued annually by LCB as proof that the ISB Group complies with the implementation of the EUTR.

EUDR

The main aim of the European Union Deforestation Regulation (EUDR) is to ensure that wood products imported or sold on the EU market have not contributed to deforestation or forest degradation and have been legally produced in the country where they were harvested and/or produced.

It will gradually replace the EUTR from December 2024.

OUR WOOD

With our expertise and passion for wood, we bring out the best in the species we work on to meet your aspirations. Each species of wood is different, with its own characteristics that depend, among other things, on its origin. Our role is to help you choose the right wood for the right purpose. Source: Data taken from standard NF EN 350 and the CIRAD website.

SOFTWOOD

DOUGLAS (*Pseudotsuga menziesii*)

Origin: France, Canada and the United States - Other common name: Oregon pine

APPEARANCE	STABILITY	USES	NATURAL DURABILITY*	ADDED DURABILITY
Pinkish brown Straight grain, medium grain Risk of resin pockets Large number of knots	Dimensional stability: good Drying properties: no problem Easy to machine	Cladding / Interior joinery / Exterior joinery / Frame / Structure...	Use classes 1 and 2: sustainable for over 100 years Class 3.1 use: up to 100-year durability Class 3.2 use: up to 50-year durability	Class 3.1 and 3.2 use: up to 50-year durability

MECHANICAL AND PHYSICAL CHARACTERISTICS

AVERAGE DENSITY AT 12% HUMIDITY	MONNIN HARDNESS	COMPRESSIVE YIELD STRESS	STATIC BENDING YIELD STRESS	LONGITUDINAL MODULUS OF ELASTICITY
540 kg/m ³	3.2 N/mm ²	50 N/mm ²	91 N/mm ²	16,800 N/mm ²

RED CEDAR (*Thuja plicata*)

Origin: Canada and the United States

APPEARANCE	STABILITY	USES	NATURAL DURABILITY*	ADDED DURABILITY
Light reddish brown to dark reddish brown Straight grain, medium grain Lightly grained wood	Dimensional stability: average Drying ability: without difficulty Easy to machine	Cladding / Interior joinery / Exterior joinery / Panelling / Interior and exterior design.	Use classes 1 and 2: sustainable for over 100 years Class 3.1 use: up to 100- year durability Class 3.2 use: up to 50-year durability	Not applicable

MECHANICAL AND PHYSICAL CHARACTERISTICS

AVERAGE DENSITY AT 12% HUMIDITY	MONNIN HARDNESS	COMPRESSIVE YIELD STRESS	STATIC BENDING YIELD STRESS	LONGITUDINAL MODULUS OF ELASTICITY
370 kg/m ³	1.1 N/mm ²	33 N/mm ²	59 N/mm ²	8,800 N/mm ²

NORWAY SPRUCE (*Picea abies*) / SILVER FIR (*Abies alba*)

Origin: Scandinavia and Western Europe

APPEARANCE	STABILITY	USES	NATURAL DURABILITY*	ADDED DURABILITY
Creamy white Regular veining Straight grain, fine to medium grain	Dimensional stability: average Drying properties: no problem Easy to machine	Cladding / Interior joinery / Exterior joinery / Panelling / Interior and exterior design.	Use class 1: sustainable for over 100 years	Class 2 and 3.1 use: up to 50-year durability if the wood is coated with a maintained finish

MECHANICAL AND PHYSICAL CHARACTERISTICS

AVERAGE DENSITY AT 12% HUMIDITY	MONNIN HARDNESS	COMPRESSIVE YIELD STRESS	STATIC BENDING YIELD STRESS	LONGITUDINAL MODULUS OF ELASTICITY
460 kg/m ³	2.2 N/mm ²	46 N/mm ²	78 N/mm ²	11,900 N/mm ²

* Natural durability always means excluding sapwood.

NORTHERN RED PINE (*Pinus sylvestris*)

Origin: Scandinavia, Western Europe and the Baltic States
Other common name: Scots Pine

APPEARANCE	STABILITY	USES	NATURAL DURABILITY*	ADDED DURABILITY
Pinkish brown Clearly veined Straight grain, medium grain Large number of knots	Dimensional stability: average Drying properties: no problem Easy to machine	Decking / Cladding / Interior joinery / Exterior joinery / Panelling / Interior and exterior design.	Class 1 and 2 use: more than 100-year durability Class 3.1 and 3.2 use: up to 50-year durability	Use class 4: up to 50-year durability

MECHANICAL AND PHYSICAL CHARACTERISTICS

AVERAGE DENSITY AT 12% HUMIDITY	MONNIN HARDNESS	COMPRESSIVE YIELD STRESS	STATIC BENDING YIELD STRESS	LONGITUDINAL MODULUS OF ELASTICITY
520 kg/m ³	2.6 N/mm ²	50 N/mm ²	97 N/mm ²	12,900 N/mm ²

YELLOW PINE (*Pinus palustris mill.*)

Origin: United States
Other common name: Carolina pine

APPEARANCE	STABILITY	USES	NATURAL DURABILITY*	ADDED DURABILITY
Light yellow brown Fairly straight grain, fine to medium grain	Dimensional stability: average Drying properties: no problem Easy to machine	Decking / Cladding / Interior joinery / Exterior joinery / Panelling / Interior and exterior design.	Class 1 and 2 use: more than 100-year durability Class 3.1 and 3.2 use: up to 50-year durability	Use class 4: up to 50-year durability

MECHANICAL AND PHYSICAL CHARACTERISTICS

AVERAGE DENSITY AT 12% HUMIDITY	MONNIN HARDNESS	COMPRESSIVE YIELD STRESS	STATIC BENDING YIELD STRESS	LONGITUDINAL MODULUS OF ELASTICITY
660 kg/m ³	5.5 N/mm ²	60 N/mm ²	105 N/mm ²	12,000 N/mm ²

* Natural durability always means excluding sapwood.

USES AND USE CLASSES

The use classes determine the wood's sensitivity to biological agents, depending on its position in the structure. This classification also varies according to the extent to which exterior wood is exposed to the elements. The suitability of wood (treated or untreated) for a particular class of use means you can choose the right product for the right purpose.

INTERIOR JOINERY

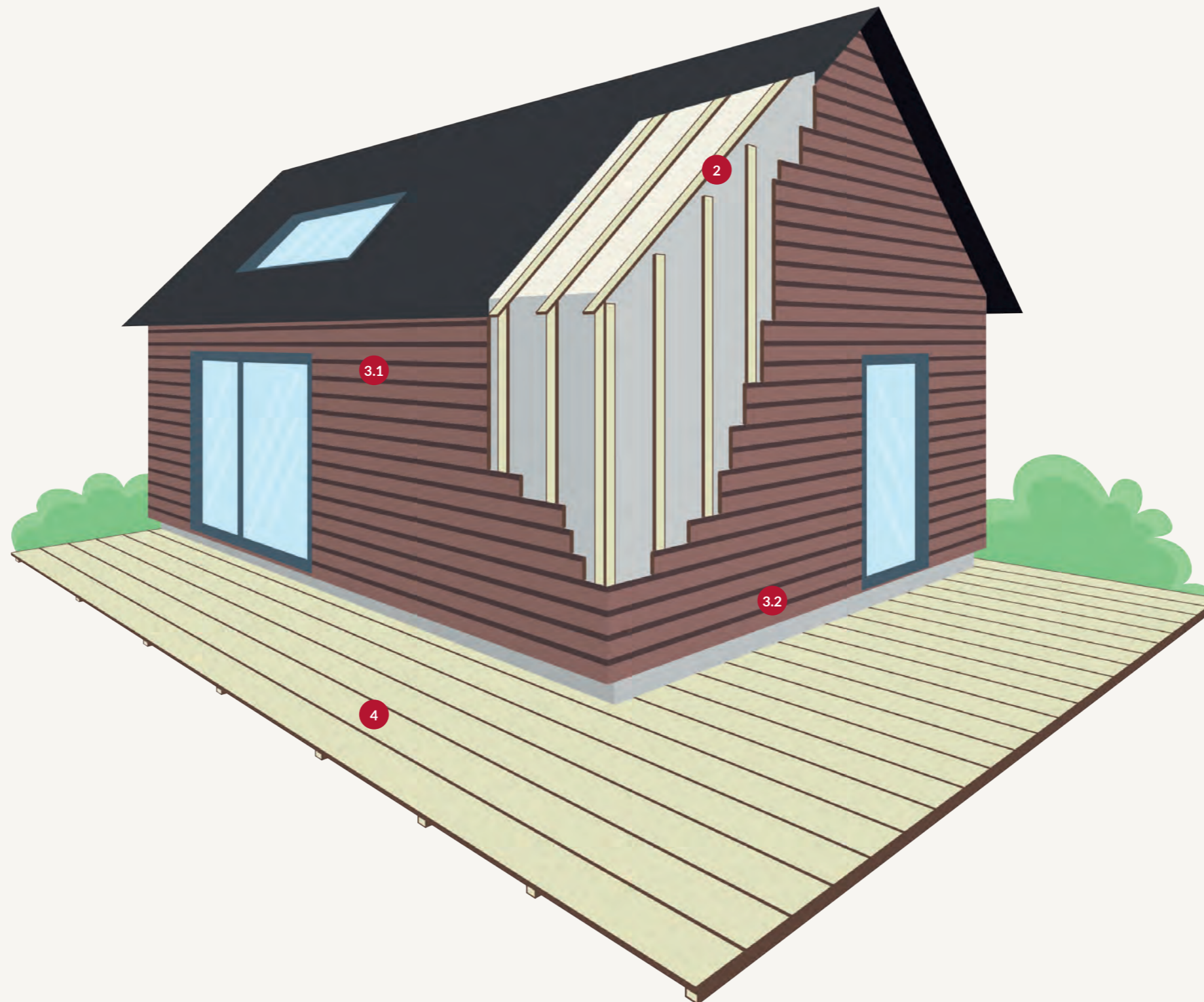
- 1** A situation in which the wood is indoors, fully protected from the weather and not exposed to damp.

EXTERIOR COVERING

- 3.1** A situation in which the wood is not in contact with the ground outdoors and is subjected to very frequent wetting over short periods (a few days).

WOOD IN CONTACT WITH SOIL AND/OR WATER

- 4** Wood in contact with the ground, partially immersed in fresh water, subject to recurrent wetting, or used in a design that induces significant water retention.



CARPENTRY AND FRAMEWORK

- 2** A situation in which the wood is indoors or under cover, protected from the elements with occasional high ambient humidity.

EXTERIOR COVERING

- 3.2** A situation in which the wood is not in contact with the ground outdoors and is subjected to very frequent wetting over long periods (a few weeks).

WOOD IN CONTACT WITH SEAWATER

- 5** A situation in which the wood is immersed or partially immersed in salt water (marine environment and natural brackish water).

This diagram is a non-exhaustive guide to typical situations.
Refer to FD P20-651 for more details.

DURABILITY

The durability of a species refers to its resistance to biological degradation agents (insects and fungi). Refer to standards NF EN 335 + FD P 20-651 for more details.

NATURAL DURABILITY EXCLUDING SAPWOOD*

Intrinsic resistance of a wood species to biological degradation agents.

DURABILITY CONFERRED BY TREATMENT

Improved resistance of a wood species to biological degradation agents by a treatment process.

USE CLASSES	SUITABILITY BASED ON NATURAL DURABILITY*						SUITABILITY BASED ON CONFERRED DURABILITY					
	1	2	3.1	3.2	4	5	1	2	3.1	3.2	4	5
DOUGLAS FIR	✓	✓	✓	✓			✓	✓	✓	✓		
LARCH	✓	✓	✓	✓			✓	✓	✓	✓		
RED CEDAR	✓	✓	✓	✓			Not applicable					
SPRUCE	✓						✓	✓	✓			
NORTHERN RED PINE	✓	✓	✓	✓			✓	✓	✓	✓	✓	
YELLOW PINE	✓	✓					✓	✓	✓	✓	✓	
CUMARU	✓	✓	✓	✓	✓		Not applicable					
IPE	✓	✓	✓	✓	✓	✓	Not applicable					
MACARANDUBA	✓	✓	✓	✓	✓	✓	Not applicable					

* Natural durability always means excluding sapwood. In all cases, sapwood is never durable, whatever the species, and needs to be treated.



TREATMENT

The durability conferred by Sinbpla products is achieved by different processes. The choice of industrial process depends on the type of wood and the intended use of the product.

TREATMENT BY SOAKING

CLASS 2

1. The wood is fed into the bin.
2. It is immersed in the treatment solution for optimum soaking.
3. The wood is then drained and stored under cover.

TREATMENT BY SPRAYING

FOR CLASS 2

1. The wood is fed into the cabin.
2. The treatment product is sprayed onto the wood.
3. The wood is then drained and stored under cover.

TREATMENT BY SPRAYING IN DIE OR LINE FLOW FOR CLASS 3.1

1. The wood is fed into the die or line flow at high speed.
2. The treatment product is sprayed onto the wood.
3. The cladding boards are then dried directly.

TREATMENT BY AUTOCLAVE USING BETHELL PROCESS FOR CLASSES 3.1 / 3.2 / 4

1. The wood is fed into the autoclave.
2. A vacuum extracts the air and the treatment product fills the autoclave.
3. The autoclave is pressurised, forcing the product into the wood.
4. The treatment product is evacuated and a final vacuum applied to remove any excess solution.



Treatment station - Honfleur production site (14)



Autoclave treatment station - Moulton production site (14)



Preservative solutions can be pigmented in several shades: green, brown, grey. Although treatment gives the wood a coloured appearance, it is not a finish, and nuances of colour may appear, particularly on Douglas fir.

ALTERNATIVE: THE THERMO-HEATING PROCESS



1. Thermal modification of wood using high-temperature steam to extract the resin and moisture present in the wood fibres.
2. The wood becomes resistant and durable to the core, while remaining natural.

DESIGN OF WALLS

As well as checking the mechanical strength of a structure, the envelope needs to be designed to take account of various constraints, in order to comply with standards and regulatory requirements.

THERMAL INSULATION REQUIREMENTS

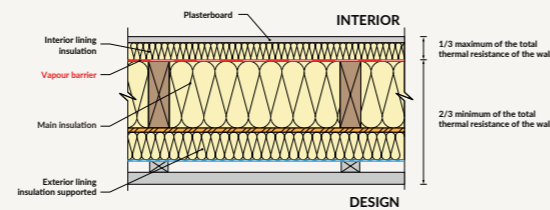
In France, thermal regulations are becoming increasingly ambitious and are moving towards the design of positive energy buildings.

For timber-framed walls (roofs, floors, walls), the insulation can be placed in a single layer between the framework components; for heavily insulated walls, consider Swelite and/or Kerto LVL I-beams, which can incorporate thick layers of insulation.

Additional insulation can also be provided from the outside and/or inside, in accordance with NF DTU 31.2:

"2/3 - 1/3" RULE FOR WATERPROOFED WALLS AND ROOFS

Whatever the value of the permeance of the water vapour diffusion barrier of the wall, the thickness of the internal lining insulation must be limited so that its thermal resistance is always less than or equal to half that of the insulation of the wall (the "2/3 - 1/3" rule), while remaining less than 100 mm.



Example of a wall

AIRTIGHTNESS AND CONTROL OF WATER VAPOUR TRANSFER

In addition to ensuring that the exterior of the wall is watertight, it is essential under NF DTU 31.2 to install a continuous vapour barrier throughout the building envelope. This makes the wall airtight and limits the risk of condensation inside the walls.

GENERAL RULE

By default, a flexible vapour barrier membrane with an Sd value of 18 metres or more must be used.

"FACTOR 5" RULE

A rule of thumb now makes it possible to optimise the Sd value of the vapour barrier membrane used. Under certain conditions, the backing board panels (on the inside) can then be used as a water vapour diffusion barrier.

This rule only applies in the following cases: vertical walls; pitched roofs (provided that the design is similar to that of the walls, and that the rainscreen is HPV and ventilated under the roof).

> FOR EXTERNAL BACKING BOARD PANELS:

The Sd of the vapour barrier must be at least 5 times greater than the Sd of the wood panel and the rainscreen (or external screen).

> FOR INTERIOR BACKING BOARD PANELS:

The Sd of the water vapour diffusion barrier on the inside (film and/or wood panel) must be at least 5 times higher than the Sd of the rainscreen (or external screen)

> FOR DOUBLE-SIDED BACKING BOARD PANELS:

The Sd of the water vapour diffusion barrier on the inside (film and/or wood panel) must be at least 5 times higher than the Sd of the exterior wood panel and the rainscreen (or exterior screen).

ACOUSTIC REQUIREMENTS

Acoustic insulation is the set of procedures implemented to reduce the transmission of sound from one room to another.

By their very nature, structural timber products alone make only a small contribution to the overall acoustic performance of a building, which is why the structure must necessarily be combined with finishing elements (plasterboard, insulation, screed, flooring, etc.) that comply with the "mass-spring-mass" law.

REGULATIONS - PRINCIPLE

Over time, regulations have tightened the requirements for acoustic insulation against external and internal airborne noise, as well as those relating to the attenuation of impact and equipment noise.

It sets minimum requirements (not representative of acoustic "comfort") in terms of insulation from third parties, and can only be verified by measurements taken in situ, since they must qualify a structure in its entirety.

For example, designing solutions for a given level of isolation requires estimating this level of isolation on the basis of values obtained from laboratory measurements. The regulatory ratings are shown in the table below:

The transfer of data obtained in the laboratory to useful data in situ is not possible in a precise or standardised way and is highly dependent on the conditions of installation, airtightness, etc. However, for timber constructions and following the "Acoubois" reports, it is customary to apply a variation of 3 to 5 dB.

$$R_A + \Delta \approx D_{nT,A}$$

where Δ represents the loss due to lateral transmission in situ, a value between -3 and -5 dB

NOISE INSULATION	LABORATORY MEASUREMENTS (IN dB)	IN SITU MEASUREMENTS (IN dB)
Insulation against external airborne noise	$R_{A,tr} = R_w + C_{tr}$	$D_{nT,A,tr}$
Insulation against internal airborne noise	$R_A = R_w + C$	$D_{nT,A}$
Impact noise insulation	$L_{n,w}(Ci)$	$L_{nT,w}$
	Acoustic attenuation	Acoustic insulation

REGULATIONS - REQUIREMENTS

The requirements of the New Acoustic Regulations (NAR) for new housing are for in situ measurements only.

The table below summarises these requirements, although some certifications and labels may be more stringent (not exhaustive).

For collective housing, floors and/or roofs must not be continuous between 2 adjacent dwellings.

The "Acoubois" reports (consult the FCBA online tool) offer a prediction method as well as wall solutions.

NOISE INSULATION	INSULATED INDIVIDUAL HOUSING	UNINSULATED DETACHED HOUSE/COLLECTIVE HOUSING	HOTEL	NURSERY SCHOOL	HOSPITAL
INSULATION AGAINST EXTERNAL AIRBORNE NOISE	≥ 30-45*	≥ 30-45*	≥ 30-45*	≥ 30-45*	≥ 30-45*
INSULATION AGAINST INTERNAL AIRBORNE NOISE	None	≥ 53	≥ 35-47	≥ 35-47	≥ 35-47
IMPACT NOISE INSULATION	None	≤ 58	≤ 58	≤ 55	≤ 58

* When it comes to insulation against external noise from the façade, the minimum requirement of 30 dB can in fact be as much as 45 dB. The Prefect ratifies the noise classification of infrastructures by decree.

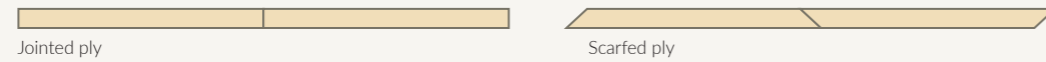
TYPES OF PANELS

PLYWOOD PANEL

Made from several sheets of rotary-cut veneer, between 0.8 and 4 mm thick, plywood panels are assembled by gluing veneers together across the grain of the wood.

PLY

The jointed/scarfed ply endow a plywood panel with a higher mechanical strength than other wood-based panels. During the pressing process, the risk of a "cage" effect (lack of material) is limited.



FILM COATING

A film of impregnated phenolic resin is pressed onto the 2 surfaces of the SKYLTY® FORM panel under high pressure and at high temperature. Generally speaking, the standard weight of film-coated plywood is 120 g/m². It is also available in 170 g/m² and 220 g/m². The greater the weight, the more resistant the film.

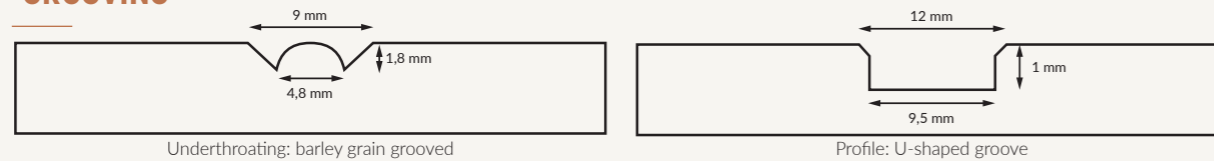
PRINTS

Positive print: print on the film giving an impression of relief.
Negative print: print on the film giving an impression of punching.

GRAIN

Long grain plywood: the grain of the side veneers run in the same direction as the length of the panel.
Cross grain plywood: the grain of the side veneers will be along the width of the panel.

GROOVING



REPAIRS TO VENEER DEFECTS

Wood paste



Wood pellets



PROCESS PANELS

Made from wood, process panels are reconstituted from small components. The components are bonded together using an organic glue, a hydraulic binder or the simple adhesive power of the lignocellulose-bearing fibre. Thanks to an industrial process, these panels are produced on a continuous basis.

Sinbpla offers the following range of process panels:

- > Particleboard:
MFP P5 (p.32)
- > Fibreboard:
Fibreboard (p.66)
Stained MDF (p.70)
- > Oriented strand board (OSB):
OSB/3 and OSB/4 (p.30 and 68)



CE marking: In accordance with standard NF EN 13986

CE 2+ → structural use
CE 4 → non-structural use

SOLID WOOD PANELS/3-PLY

Made from hardwood or softwood, 3-ply solid wood panels are manufactured from glued and end-to-end positioned solid wood strips (multiple joints only visible on the edges).

The 3-ply panel has 3 layers of wood that are calibrated and then cold-glued together. The centre fold crosses the grain of the outer ply at 90°.

Sinbpla offers the following range of 3-ply solid wood panels:

- > Solid Oak, Steam-treated Beech, Hevea, Ash and Maple panels (p.72 to 75)
- > 3-Ply Norway Spruce, Larch, Douglas fir and Pine panels (p.76)

ENVIRONMENT OF USE AND APPLICATION CLASSES

ENVIRONMENT OF USE FOR PLYWOOD

In accordance with standard NF EN 636

USE CLASS 1, DRY ENVIRONMENT

A situation in which the wood, or wood-based product, is sheltered, fully protected from the weather and not exposed to damp.

USE CLASS 2, DRY/WET ENVIRONMENT

A situation in which the wood or wood-based product is sheltered and fully protected from the elements. High ambient humidity can lead to occasional but not persistent wetting.

USE CLASS 3, OUTDOOR ENVIRONMENT

A situation in which the wood or wood-based product is neither sheltered nor in contact with the ground. It is either continuously exposed to the weather, or sheltered from the weather and subject to frequent wetting.

APPLICATION CLASSES FOR SOLID PANELS/3-PLY

In accordance with standard NF EN 12775

DURABILITY CLASS D1

Interior where the temperature occasionally exceeds 50°C for a short period and where the relative humidity of the wood does not exceed 15%.

DURABILITY CLASS D2

Interior with occasional short-term exposure to running water or condensation for short and/or subject to high air humidity for limited periods. The relative humidity of the wood can be as high as 18%.

DURABILITY CLASS D3

Interior with frequent short-term exposure to running water or condensation and/or exposure to long-term high humidity. Weatherproof exterior.

DURABILITY CLASS D4

Interior with frequent exposure to running water or condensation. Exterior exposed to weather, provided that a suitable surface coating is applied to the bonded structure.

BONDING

PLYWOOD PANELS: TYPES OF GLUE

UREA FORMALDEHYDE RESINS (UF)

Used for its high mechanical strength, Urea-Formol resin is a thermosetting polymer. As with many polymers, water and heat can cause detrimental depolymerisation. This type of bonding therefore has limited resistance in a damp environment, which restricts its applications in interior spaces.

MELAMINE-UREA-FORMALDEHYDE RESINS (MUF)

To improve the performance of Urea-Formol resin, melamine is added to increase resistance to humidity when exposed outdoors. This type of bonding is recommended when the application of the panel requires good moisture resistance.

PHENOLIC RESINS (PF)

Black in appearance, the bond obtained from phenolic resin offers very good adhesion and resistance to water, heat, chemicals and fire.

PLYWOOD PANELS: BONDING CLASSES

In accordance with standard NF EN 314- 2

BONDING CLASS 1, FOR USE IN DRY INDOOR ENVIRONMENTS

This class is suitable for indoor use protected from water and humidity. Bonding is carried out using urea-formaldehyde binders.

BONDING CLASS 2, FOR USE IN DAMP ENVIRONMENTS

This class corresponds to damp interior uses (such as under-roof elements) where the humidity in use exceeds 85% for only a few weeks a year. This class is also suitable for sheltered outdoor use (such as under roofing elements) or short-term exposure to weather (during the construction period). Bonding is carried out using phenol-formaldehyde binders.

BONDING CLASS 3, OUTDOOR ENVIRONMENT USE

This class is intended for prolonged exposure to the elements. Bonding is carried out using low-formaldehyde phenol binders.



Class 3 WBP (Water Boil Proof) bonding certification:

This is a certification issued by the British Standard Institution. This certificate guarantees that the bonding of the panel has been tested and that it will withstand the elements (Bonding Class 3).

OSB PANELS (PROCESS): BONDING CLASSES

In accordance with standard NF EN 300

OSB/1

General-purpose boards for use in dry conditions

OSB/2

Load-bearing boards for use in dry conditions

OSB/3

Load-bearing boards for use in humid conditions

OSB/4

Heavy-duty load-bearing boards for use in humid conditions

SOLID PANELS/3-PLY: BONDING CLASSES

In accordance with standard NF EN 12775

INTERIOR BONDING CLASS D1 AND D2

A single-component vinyl wood adhesive can cover durability classes ranging from class D1 to class D2 (usual application: assembly of interior joinery):

- The D1 rating is particularly suitable for interior bonding. The temperature may exceed 50°C for a short time. The moisture content of the wood must never exceed 15%.
- The D2 rating is more suitable for interior bonding. During installation, the panel may come into contact with condensation for a short periods. The ambient humidity must remain low. The moisture content of the wood must never exceed 20%.

EXTERIOR BONDING CLASS D3 AND D4

A single-component or dual-component vinyl wood adhesive covers durability classes ranging from class D3 to class D4 (usual application: assembly of exterior joinery):

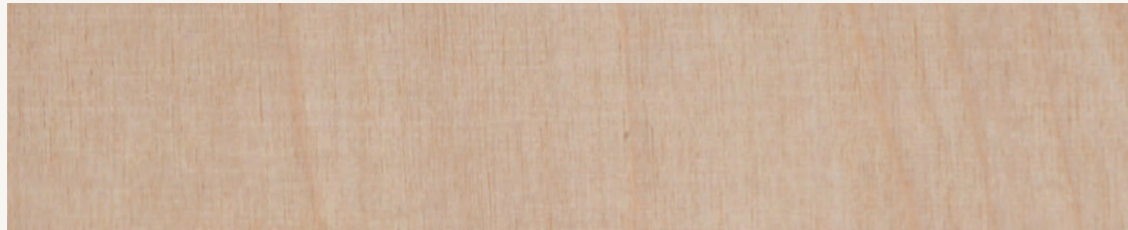
- The D3 rating is suitable for exterior bonding that needs to be protected from the weather. It may come into contact with frequent condensation or water for short periods. The air humidity level may be high for a long period.
- The D4 rating is suitable for exterior bonding that can be exposed to the weather. It may come into contact with heavy condensation or water for long periods. The air humidity level may be higher over a longer period.

SURFACE QUALITY

SKYLTY® BIRCH/WISA®-BIRCH PLY

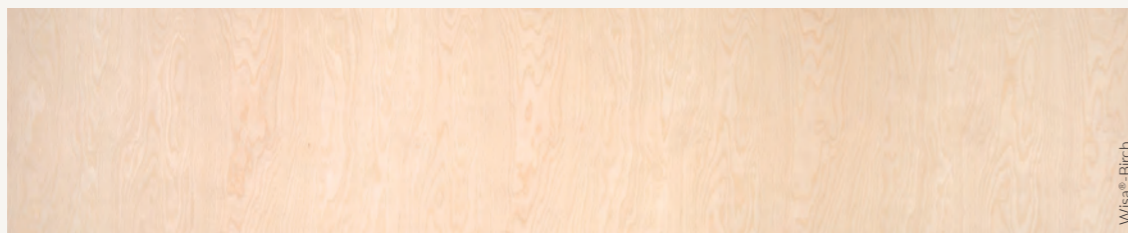
SIDE B (I)

Very small knots allowed. Other knots and holes tolerated up to 6 mm, limited to a cumulative diameter of 12 mm/m². Splits and cracks permitted up to an individual length of 100 mm and one per metre of panel width. Slight discolouration and streaks tolerated. Other defects strictly limited.



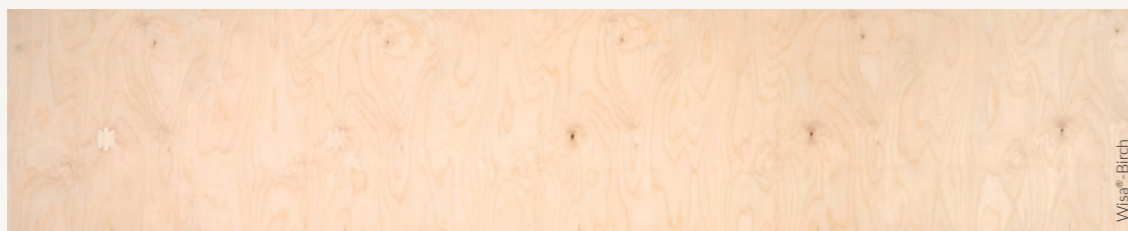
SIDE S (II)

Very small knots allowed. Sound adherent knots permitted up to an individual diameter of 20 mm, limited to a cumulative diameter of 50 mm/m². Other knots and repaired holes permitted up to 10 mm in diameter, limited to a cumulative diameter of 25 mm/m². Repaired cracks and splits up to 2 mm wide, length 200 mm, limited to one per metre of panel width. Filled cracks and splits permitted up to 200 mm in length and 2 per metre of panel width. Discolouration and coloured stripes permitted. One wooden pellet per m² permitted.



SIDE BB (III)

Very small knots allowed. Healthy nodes permitted up to 25 mm in diameter, limited to a cumulative diameter of 60 mm/m². Other knots and holes permitted up to 6 mm in diameter, limited to a cumulative diameter of 25 mm/m². Open but repaired cracks and splits are permitted up to 2 mm wide and length 200 mm, no longer than one per metre of panel width. Discolouration, roughness and piercing permitted if very slight. Wooden pellets permitted up to 3% of the surface area. Adhesive penetration limited to 5% of the panel surface.



SIDE WG (IV)

Very small knots and healthy knots permitted up to 65 mm in diameter, limited to a cumulative diameter of 600 mm/m². Other knots and holes up to 15 mm, up to a cumulative diameter of 100 mm/m². Open cracks and splits up to 4 mm wide and 2 per metre of panel width. Discolouration, streaks, roughness, light piercing, glue penetration and pellets are permitted.

SKYLTY® PLY POPLAR

Classification of poplar plywood according to side (standards NF EN 635-1 and NF EN 635-2). The classes defined by the standard are: E, I, II, III and IV.

CLASS E (FORMERLY CLASS A OF UNI 6471)

No defects are permitted.

CLASS I (FORMERLY CLASS AB)

Side that can remain visible, ideal for any kind of finish (re-plating with fine essence, clear varnish, satin finish, etc.). Few small knots or healthy, adherent knots are allowed, without cracks. Very slight staining, puttying or minor repairs are permitted, provided they are well done and match the colour of the rest of the surface.

CLASS II (FORMERLY CLASS B)

"Natural" side, with chromatic variations and healthy knots, suitable for coating with laminate, pigmented varnish or lacquer. Sound adherent knots up to 35 mm in diameter are acceptable, as are small loose knots or cracks repaired with putty. Low-contrast colouring, occasional adhesive stains and well-executed repairs and putties are acceptable.

CLASS III (FORMERLY CLASS BB)

"Open" side, masticated on request, suitable for non-visible applications. Sound, adherent knots up to 50 mm in diameter are acceptable, as are falling knots, cracks, bark inclusions and overgrown knots. Colours are permitted.

CLASS IV (FORMERLY CLASS C)

Plywood side for packaging or similar purposes. All the natural characteristics of the wood and the various production defects are permitted, provided that they do not alter the functionality of the plywood (e.g. mould and inclusions of ferrous bodies are not permitted).

SURFACE QUALITY

SKYLTY® PACK ELLIOT PIN

SIDE C+

- Veneer: maximum 2
- Sound knots: no limit to number or size
- Black knots: no limits, maximum diameter 65 mm, average 50 mm
- Non-adhering knots: repaired with synthetic putty, without limit
- Open joints: 2 mm wide, over all or part of the length, repaired with synthetic putty, maximum 5% per pallet.
- Cracks: 600 mm long; 10 mm wide repaired with synthetic putty, maximum 20% per pallet, average 15%
- Veneer repairs:
- Used for cracks larger than 600 x 10 mm
 - Used for cracks over 2 mm deep.
 - No limits on repairs.
- Veneer appearance defects: unsanded, bark pocket, maximum 20% of the surface
- Thickness differences: +/- 5%
- Discolouration and blue: length 40 cm, on the sides, maximum 10% per pallet
- Sanding: over the entire surface
- Pellets: not used

SIDE C

- Veneer: maximum 3
- Sound knots, black knots, non-adhering knots: no limits, maximum diameter 80 mm, average 50 mm
- Open joints: 5 mm wide, partially repaired or not repaired. More than 5 mm accepted if repaired.
- Cracks: not repaired if less than 700 mm long, 12 mm wide, 4 cracks per side. Maximum 15% per pallet.
- Veneer repairs:
- For non-adhering knots > 80 mm in diameter
 - Open joints over 5 mm wide
- Veneer appearance defects: (unsanded, bark pocket) maximum 30% of the surface
- Thickness differences: +/- 5%
- Discolouration and blue: length 50 cm, on the sides, maximum 10% per pallet
- Sanding: unsanded
- Pellets: not used



Side C

SKYLTY® PLY RADIATA PINE

CLASS A

Very high quality side. Synthetic repairs are accepted up to 6/panel. Wood pellets accepted up to 6/panel.

CLASS B

High-quality side, generally with no defects. Synthetic repairs are accepted up to 8/panel. Wood pellets are accepted up to 8/panel. Occasional sound knots up to 25 mm wide are accepted.



Class B

CLASS CP

Side with no open defects. All types of repairs are accepted. Sound knots up to 40 mm wide are accepted.

CLASS C

Side accepting open defects. Sound, open knots up to 65 mm wide are permitted. Cracks up to 25 mm wide permitted.

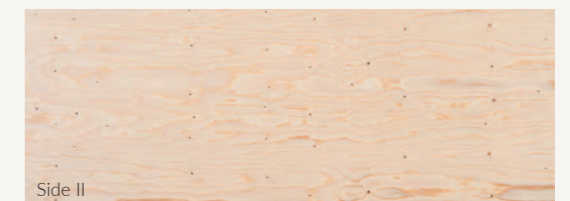
SKYLTY® PLY NORWAY SPRUCE/WISA®- SPRUCE

SIDE I

Very small knots limited to 3 per m². Sound adherent knots up to 10 mm in diameter with a cumulative diameter of 30 mm/m². Cracks and splits limited to 3 mm wide and suitably filled. Other defects strictly limited.

SIDE II

Very small knots permitted without restriction. Sound non-adherent knots up to an individual diameter of 40 mm. Non-adherent knots and holes permitted up to 5 mm in diameter, and if filled or repaired up to 60 mm in diameter. Open cracks and splits up to 6 mm wide if filled. Wood pellets and slight discolouration are permitted.



Side II

SIDE III

Very small knots and healthy knots up to 50 mm in diameter permitted. Other knots and holes permitted up to 40 mm, up to a cumulative diameter of 500 mm/m². Open cracks and splits permitted up to 1% of the panel surface. Light patching, roughness, holes and discolouration permitted.



Side III

SIDE IV

All knots and holes permitted. Cracks, open joints and fissures are permitted. Bark pocket, resin pockets, streaks and discolouration permitted. Patching, overlapping, roughening, glue penetration and drilling permitted.

SURFACE QUALITY

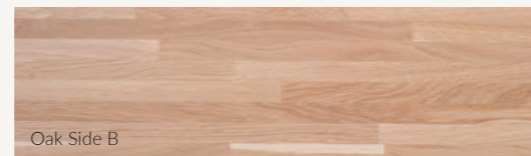
SOLID WOOD PANELS

QUALITY A/B - OAK, BEECH, HEVEA

Side A: Limited presence of a few small sound knots not exceeding 15 mm in diameter.



Side A: Limited presence of a few small sound knots not exceeding 15 mm in diameter.



3-PLY PANELS

QUALITY O

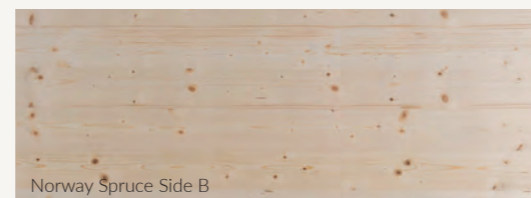
Sound, adherent knots, single natural plugs permitted, single resin pockets up to 2 x 30 mm, repaired resin pockets - single plugs permitted, no pith, no discolouration, no coarse grain, no open glue lines, sanded both sides.

QUALITY A

Sound adherent knots, natural plugs permitted, single resin pockets up to 3 x 40 mm, repaired resin pockets permitted, pith occasionally up to 400 mm permitted, no colouration, coarse texture permitted, no open glue lines, sanded both sides.

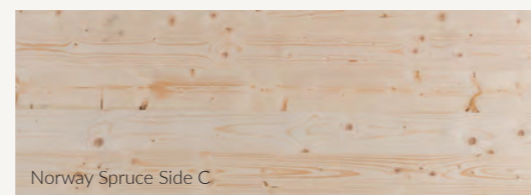
QUALITY B

Sound adherent knots, small occasional black knots, natural plugs permitted, resin pockets up to 5 x 50 mm, repaired resin pockets permitted, pith permitted, slight discolouration, coarse texture permitted, open joints < 100 mm/1m, sanded both sides.



QUALITY C

Open joints < 100 mm/1m, no restrictions concerning knots, resin pockets, pith, colouration, texture, sanded both sides.



QUALITY D

No quality restrictions except glueing.

FORMWORK

SKYLTY® FORM – BEST PRACTICE

BEFORE USE

Protect the panels from direct contact with water and sunlight by storing them in a building or covering them with a suitable waterproof tarpaulin (under cover).

Store panels flat on the ground and away from traffic areas, to avoid any risk of contact with vehicles or machinery.

Do not store in hot, dry areas, as this could lead to warping of the panels and rippling* when first used. If the panels are to be reused, make sure the substrate is clean.

If the panels are to be stored on site for several days, the outer packaging and strapping must be removed.

Please note: once the strips have been removed, the panels cannot be moved to another location using mechanical handling equipment, as film-coated panels are extremely slippery.

*Rippling: Natural waviness of the wood veneer on the surface corresponding to moisture gain in the veneer, mainly during the first few applications. This phenomenon diminishes once the panel has found a new moisture balance, after a few uses.

FORMWORK PREPARATION

The edges of film-coated plywood are painted every 4 days to reduce moisture penetration. If the panels are cut or drilled on site, all edges and holes must be painted immediately using a suitable water-resistant acrylic paint.

For best results, we recommend that the plywood is fixed to the formwork system structures from the back veneer side.

The formwork panels must be oiled before each re-use, whatever the storage conditions or the intervals between pours.

Choosing the most appropriate release agent, depending on the type of coating (e.g. phenolic film or MDO), will ensure cleaner demoulding and more re-use. The quality of the release agent can also affect the quality or appearance of the concrete finish. Please follow the release agent manufacturer's instructions regarding the quantities to be applied.

AFTER USE

Carefully clean, dry and re-oil the plywood immediately. If the formwork panels are not cleaned immediately after use, they may be damaged when the fully hardened concrete on the formwork side is removed.

Take care not to damage the surface of the panel when removing the residual concrete from the formwork side. We recommend using nylon or plastic tools for cleaning, as metal brushes and high-pressure cleaners should not be used.

Store formwork panels flat on the floor with their sides away from the sun, as exposure could lead to rapid drying out of the side veneer, resulting in deterioration of the coating.

Repair minor scratches using a suitable sealant.

Fill deeper scratches and residual screw or nail holes with sealant or epoxy coating. Wood-based patch systems are available for more extensive repairs.

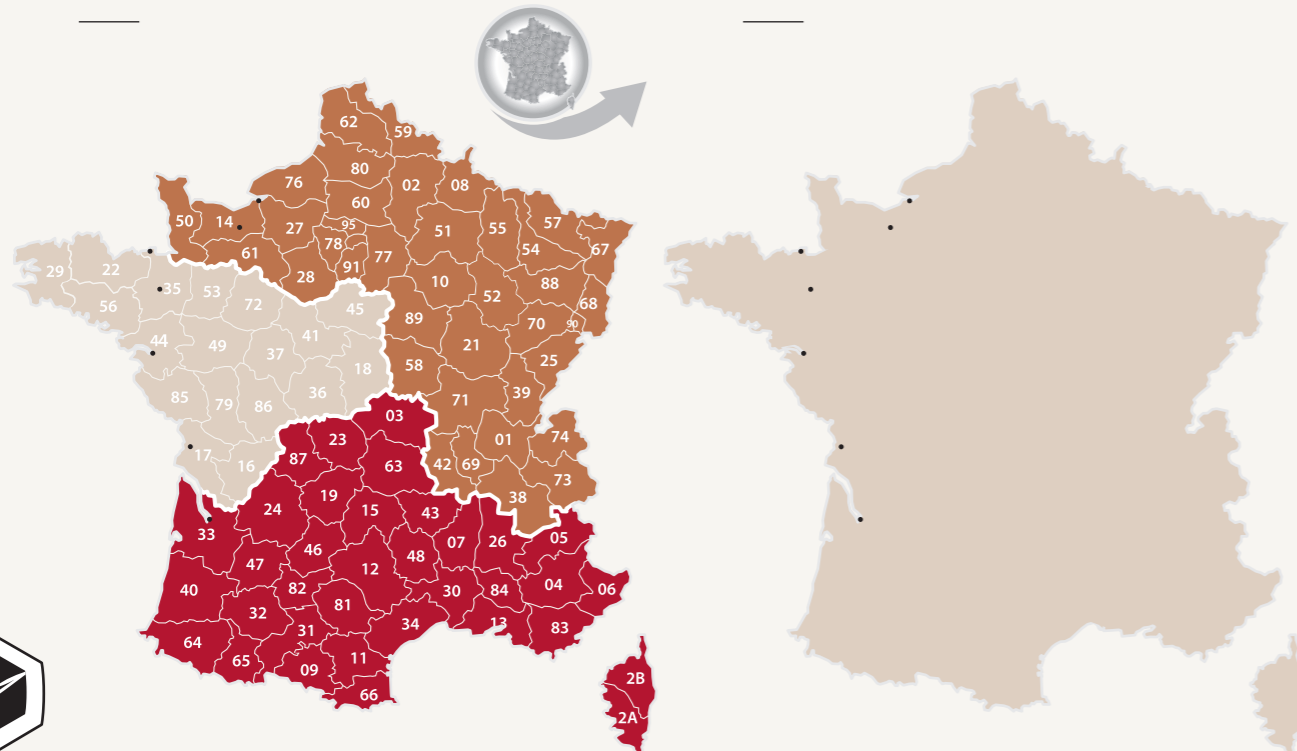
At the end of their useful life, the panels can be ground and used to produce bioenergy in boilers.

SINBPLA cannot be held responsible if these rules are not respected.

SALES CONTACTS

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FOR MANUFACTURERS



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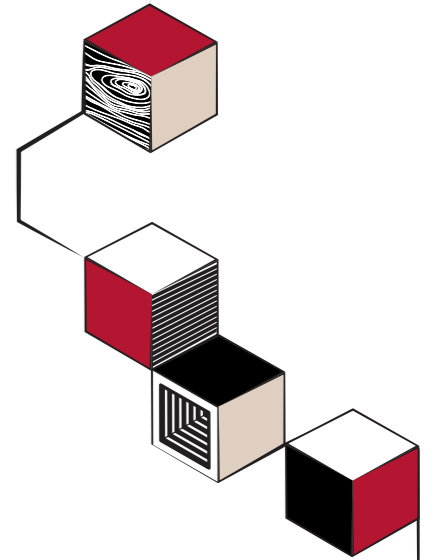
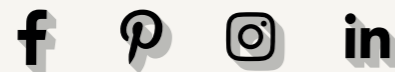
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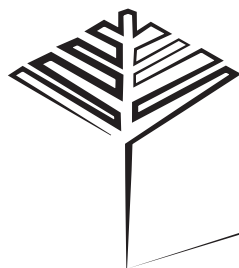
Page 4: PULSE building in Saint-Denis (93) - ©Frédéric Delangle, Icade Tertial, BFV Architectes * Page 23: 1. Poulingue, APAW / 2. TLR Architecture, Coppet SA / 3. Metsä Wood / 4. PPX Architecture (PB 8 et PB 9), Fabrice Commerçon and Ibrahima N'Doye (PB 6), Guillet, Roux and Elan-Gipen (Alsos group) * Page 25: 1. ©L'invitation au voyage - Hôtel Spa in Honfleur, 2, 3, 4. ©Patrice Le Bris * Page 27, 1. 2. + Page 31, 1. + Page 37, 4. + Page 103, 2. + Page 109, 1. + Page 111, 2. : ©Patrice Le Bris * Pages 38-39: Epsilon 3D * Page 51: 2. and 3. ©Garnica * Page 71: ©Forescolor * Page 103, 3. 4. + Page 105, 1. 2. 3. 4. + Page 107, 1. 3. : Cédric Chassé

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