

WOOD—SKIN

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CATALOG 2024

— COMPLEXITY SOLVED

Index

DESIGNING WITH WOOD—SKIN	3
PRODUCTS	17
MESH PANELS	21
FOLD PANELS	51
TAILOR-MADE SURFACES	81
ACOUSTIC PROPERTIES	109
INTEGRATION OPTIONS	119
AVAILABLE MATERIALS	123
CERTIFICATIONS	137

DESIGNING
WITH
WOOD—SKIN



Tailor Made - Okoume plywood

TECHNOLOGY AND APPLICATIONS

WOOD—SKIN® technology

WOOD—SKIN® surfaces are made from a highly resistant textile core sandwiched between two sheets of hard material.

Once material is removed from both sides a hinge is formed which allows the surfaces to assume any three-dimensional form.

Most common applications

Currently intended mainly for interior applications, exterior solutions can be developed on request, with careful consideration of the material selection based on the local environmental conditions.

WOOD—SKIN® is a system that makes it possible to easily create and install 3D surfaces that would otherwise be expensive and extremely difficult to build.

Due to the high degree of flexibility and customization, the system can respond to any degree of spatial complexity and creative input. Standardized panels/components in large quantities can also be developed thanks to the “mass customization” logic of our production system.

DESIGN IDEAS
ONCE THOUGHT
TO BE TOO
EXTRAVAGANT OR
EXPENSIVE
BECOME
BOTH POSSIBLE
AND AFFORDABLE



Various Patterns - Bronze laminate on purple MDF

PATENTED PROCESS

WOOD—SKIN® is a patented digital fabrication process able to translate any design into a one-of-a-kind, self-structured, three-dimensional surface.

The combination of proprietary software, composite materials, and CNC machines helps architects and designers to bridge the gap between digital representation and the building environment.

Through software, complex surfaces are easily managed and tessellated. The surface is unfolded and highly optimized to be produced and shipped to the site, where it is folded back into the designed 3D shape.

Design ideas once thought to be too extravagant or expensive become both possible and affordable.

Thanks to the patented technology, WOOD—SKIN® can program traditional materials to fold according to even the most adventurous design needs, becoming 3D surfaces for the architectural environment.

Application

Wall, ceiling, façade, counters, columns and more

Materials

Wide range of wood (such as plywood, wood veneer, semi-finished products), laminates, aluminum, felt, cork, HPL and others upon request

Finishes

Varnish, laminate, veneer

Colors

Wide range of hues depending on materials and finishes

Environment

Indoor / outdoor

WOOD—SKIN®'S

DIGITAL

FABRICATION

PROCESS

EMPOWERS

SUSTAINABILITY



SUSTAINABLE SOLUTIONS

At WOOD-SKIN®, our patented process allows us to design sustainable, high-end, high-quality, and innovative solutions for the architectural environment – and every project we create conveys these values.

Wood

The earliest iteration of WOOD-SKIN was made with wooden composite, as the name implies, and is still the main material for our projects.

We started a collaboration with an Italian firm that supports farmers who want to plant fruit trees, financing their work in the early years, when the trees are not yet productive. Thanks to Treedom, we already have a tiny forest of 400 trees that will grow with us in the years to come.

We have committed to planting 1 tree for every 10m2 of WOOD-SKIN produced for each project.



The mark of
responsible forestry
FSC® C154721

FSC® Certificate

We have always valued the beauty of natural materials and we make sure that our wood comes from certified forests. Since January 2020 we have joined the long list of FSC®-certified Italian companies. The materials we use for the creation of WOOD-SKIN composite come from forests where natural diversity is protected and preserved and the rights of workers and local communities are respected.

Contact us to receive the updated list of FSC® materials.

OUR PRODUCTS



WOOD—SKIN GEOMETRIES

Geometry plays a crucial role in designing with WOOD—SKIN® technology.

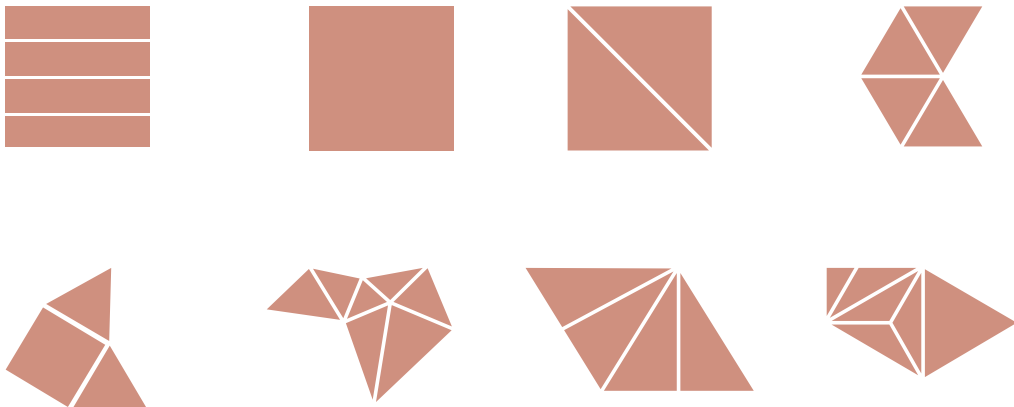
Mesh Panels, Fold Panels and Tailor-Made surfaces are part of the same technological system, yet each offers a unique geometrical expression.

Mesh Panels are adaptable to any type of surface recreating the light effect of paper and fabrics and at the same time avoiding their greater perishability. The care taken in the choice of top quality materials distinguishes Mesh Panels from ordinary room coverings, guaranteeing their application to interiors and exteriors together with a refined look.

Fold Panels are instead framed elements with a standard geometry defined a priori.

With Tailor-Made surfaces it is possible to bring to life almost any three-dimensional geometry that the designer and/or client can imagine.

Mesh Panels



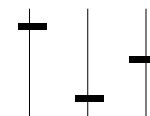
The Mesh Panels are inspired by the natural realm, fully tracing existing organic forms and integrating them with the varied world of architecture.

Mesh Panels are the ultimate example of the possibility of the WOOD—SKIN process, where the 3D surface is locked in shape by a quick-assembly frame that can be then hung to the wall. The meticulous selection of sustainable materials for the new Mesh Panel includes paperstone, print, metallic and non-metallic laminates, as well as Alpi (an ultra-thin and lightweight material), available in a variety of colors and infinite shapes with elegant finishes.

The multi-adaptability of Mesh Panels, guaranteed by their free-form properties, allows them to be composed in several combinations depending on the space they will enrich.



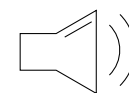
DISTINCTIVE VALUES



HIGHLY
CUSTOMIZABLE



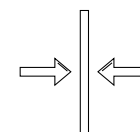
NO BACKING STRUCTURE
NEEDED



HIGH ACOUSTIC
PERFORMANCE



WIDE SELECTION OF MATERIALS, FINISHES
AND PATTERNS



ULTRA-THIN



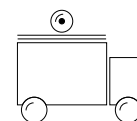
LIGHTWEIGHT



MOLD AND
CAST FREE



DRY ASSEMBLY
EASILY REMOVABLE



FLAT/ROLLED
SHIPPING










CLASSIC A

CLASSIC LOOK UPDATED • STANDARD DIMENSIONS • CUSTOMIZABLE



Pattern size: 17cm

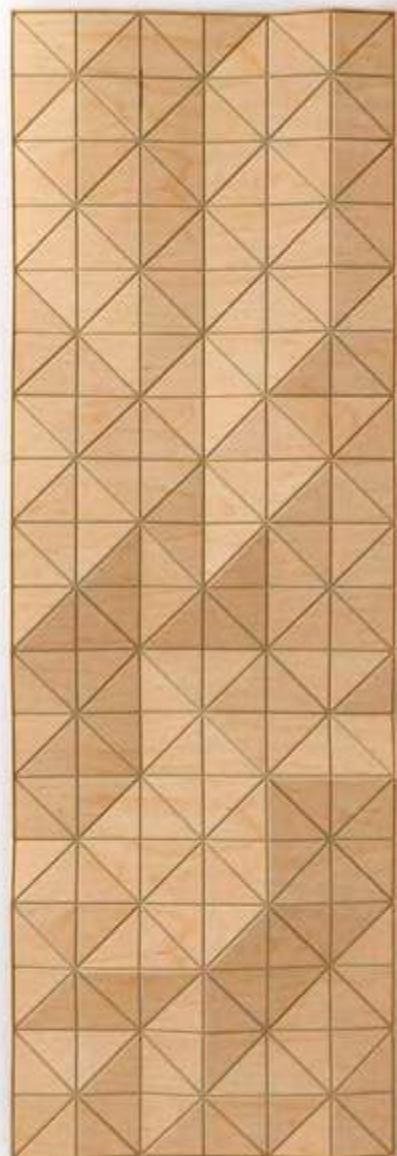
MATERIALS	PANEL DIMENSIONS
 BIRCH — varnished — laminated — veneered	2700x900mm
 OKOUME — varnished — laminated — veneered	2700x900mm
 COLORED MDF — varnished — laminated — veneered	2100x900mm 2700x900mm (only for black MDF)
 ULTRA-THIN RECONSTITUTED WOOD	2100x900mm 2700x900mm
 LAMINATE	2700x900mm
 METAL LAMINATE	2100x900mm
 SYNTHETIC FELT	2100x900mm
 SOLID SURFACE	2700x900mm









CLASSIC C

ENDLESS SHAPE-SHIFTING POSSIBILITIES • STANDARD DIMENSIONS • CUSTOMIZABLE



MATERIALS	PANEL DIMENSIONS
 BIRCH — varnished — laminated — veneered	2700x900mm
 OKOUME — varnished — laminated — veneered	2700x900mm
 COLORED MDF — varnished — laminated — veneered	2100x900mm 2700x900mm (only for black MDF)
 ULTRA-THIN RECONSTITUTED WOOD	2100x900mm 2700x900mm
 LAMINATE	2700x900mm
 METAL LAMINATE	2100x900mm
 SYNTHETIC FELT	2100x900mm
 SOLID SURFACE	2700x900mm

Pattern size: 15cm











CLASSIC D

MODERATE BENDING • STANDARD DIMENSIONS • CUSTOMIZABLE



Pattern size
Triangle: 16cm
Square: 14cm

MATERIALS	PANEL DIMENSIONS
 BIRCH — varnished — laminated — veneered	2700x900mm
 OKOUME — varnished — laminated — veneered	2700x900mm
 COLORED MDF — varnished — laminated — veneered	2100x900mm 2700x900mm (only for black MDF)
 ULTRA-THIN RECONSTITUTED WOOD on okoume/birch/MDF	2100x900mm 2700x900mm
 LAMINATE on okoume/birch/MDF	2700x900mm
 METAL LAMINATE on okoume/birch/MDF	2100x900mm











—
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—
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—
—
BASIC A
—

CLASSIC DESIGN UPDATED • STANDARD DIMENSIONS • CUSTOMIZABLE



Pattern size: 15cm

MATERIALS	PANEL DIMENSIONS
 BIRCH — varnished — laminated — veneered	2700x900mm
 OKOUME — varnished — laminated — veneered	2700x900mm
 COLORED MDF — varnished — laminated — veneered	2100x900mm 2700x900mm (only for black MDF)
 ULTRA-THIN RECONSTITUTED WOOD	2100x900mm 2700x900mm
 LAMINATE	2700x900mm
 METAL LAMINATE	2100x900mm
 SYNTHETIC FELT	2100x900mm
 SOLID SURFACE	2700x900mm



BASIC B

MINIMAL DESIGN • STANDARD DIMENSIONS • CUSTOMIZABLE

WOOD-SKIN® | CATALOGUE









Pattern size: 15cm

MATERIALS	PANEL DIMENSIONS
<div><div></div><div>BIRCH</div><div>— varnished</div><div>— laminated</div><div>— veneered</div></div>	2700x900mm
<div><div></div><div>OKOUME</div><div>— varnished</div><div>— laminated</div><div>— veneered</div></div>	2700x900mm
<div><div></div><div>COLORED MDF</div><div>— varnished</div><div>— laminated</div><div>— veneered</div></div>	2100x900mm 2700x900mm (only for black MDF)
<div><div></div><div>ULTRA-THIN RECONSTITUTED WOOD</div></div>	2100x900mm 2700x900mm
<div><div></div><div>LAMINATE</div></div>	2700x900mm
<div><div></div><div>METAL LAMINATE</div></div>	2100x900mm
<div><div></div><div>SYNTHETIC FELT</div></div>	2100x900mm
<div><div></div><div>SOLID SURFACE</div></div>	2700x900mm

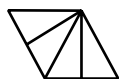




Pattern size: 18cm

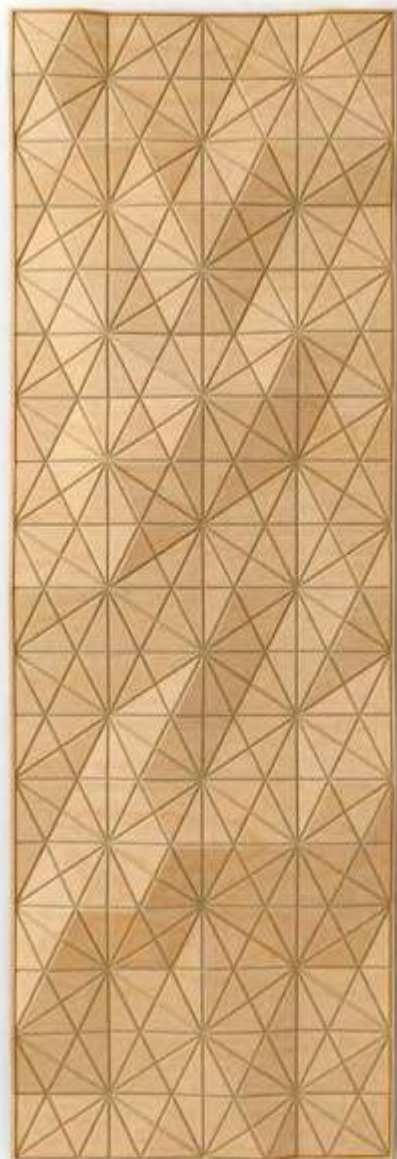
MATERIALS	PANEL DIMENSIONS
 BIRCH — varnished — laminated — veneered	2700x900mm
 OKOUME — varnished — laminated — veneered	2700x900mm
 COLORED MDF — varnished — laminated — veneered	2100x900mm 2700x900mm (only for black MDF)
 ULTRA-THIN RECONSTITUTED WOOD on okoume/birch/MDF	2100x900mm 2700x900mm
 LAMINATE on okoume/birch/MDF	2700x900mm
 METAL LAMINATE on okoume/birch/MDF	2100x900mm












DECOR A

ORGANIC LOOK • STANDARD DIMENSIONS • CUSTOMIZABLE



MATERIALS	PANEL DIMENSIONS
 BIRCH — varnished — laminated — veneered	2700x900mm
 OKOUME — varnished — laminated — veneered	2700x900mm
 COLORED MDF — varnished — laminated — veneered	2100x900mm 2700x900mm (only for black MDF)
 ULTRA-THIN RECONSTITUTED WOOD	2100x900mm 2700x900mm
 LAMINATE	2700x900mm
 METAL LAMINATE	2100x900mm
 SYNTHETIC FELT	2100x900mm
 SOLID SURFACE	2700x900mm







Pattern size: 15cm



DECOR B

SMOOTH BENDING • STANDARD DIMENSIONS • CUSTOMIZABLE



MATERIALS	PANEL DIMENSIONS
 BIRCH — varnished — laminated — veneered	2700x900mm
 OKOUME — varnished — laminated — veneered	2700x900mm
 COLORED MDF — varnished — laminated — veneered	2100x900mm 2700x900mm (only for black MDF)
 ULTRA-THIN RECONSTITUTED WOOD on okoume/birch/MDF	2100x900mm 2700x900mm
 LAMINATE on okoume/birch/MDF	2700x900mm
 METAL LAMINATE on okoume/birch/MDF	2100x900mm

Pattern size: 17cm

VOLKSWAGEN FINANCIAL SERVICES HQ
MILAN, ITALY

WOOD-SKIN® | CATALOGUE

NAME: Volkswagen Financial Services Headquarter

CLIENT: IL PRISMA

DESIGN: IL PRISMA

LOCATION: Milan - Italy

CATEGORY: Institutional

YEAR: 2019

WORK: Mesh Panels

PATTERN: Digital

W-S COMPOSITE: Varnished blue MDF

APPLICATION: Walls

PHOTO CREDITS: IL PRISMA

[DISCOVER >](#)



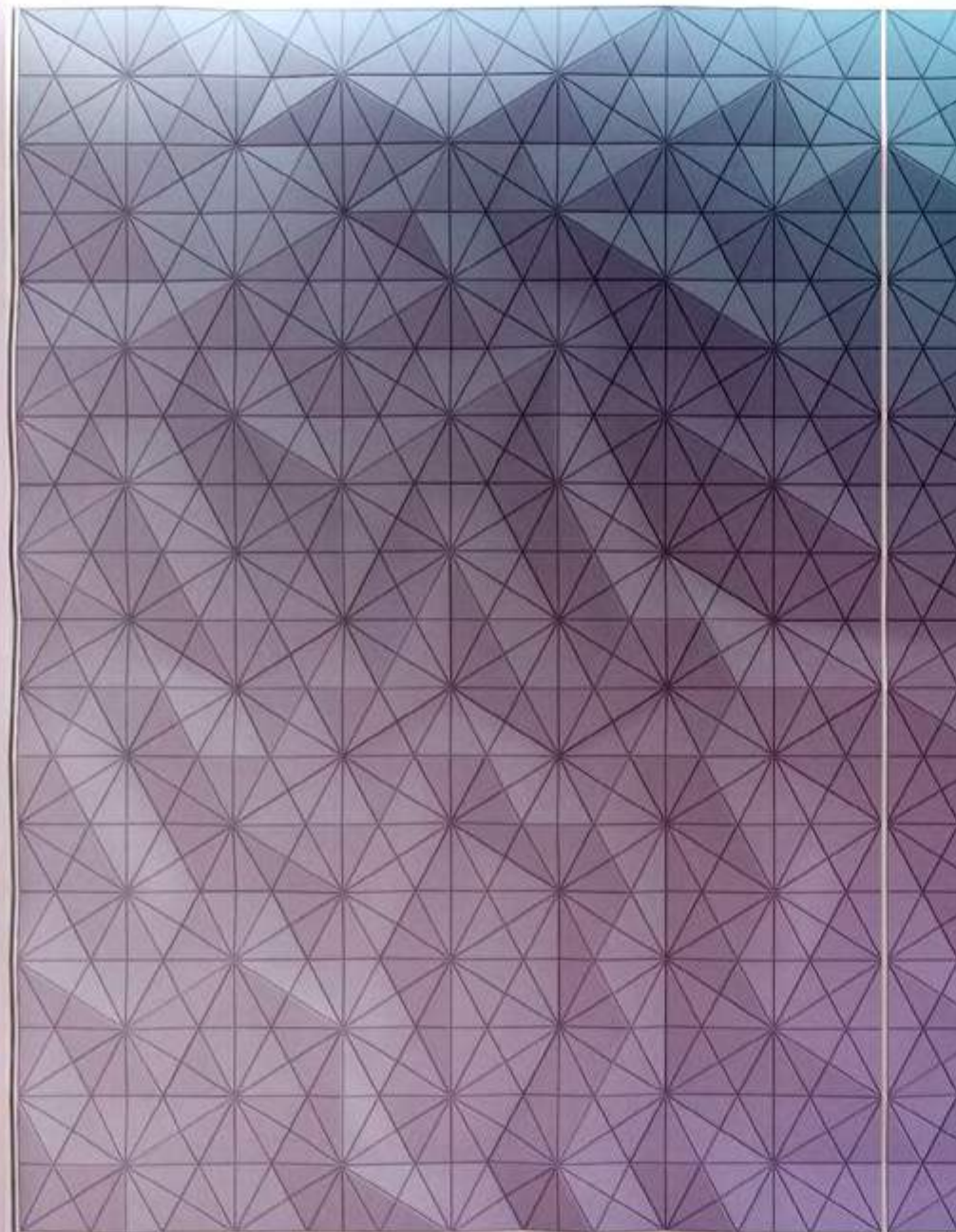
Mesh Panels - Digital - Veneered MDF



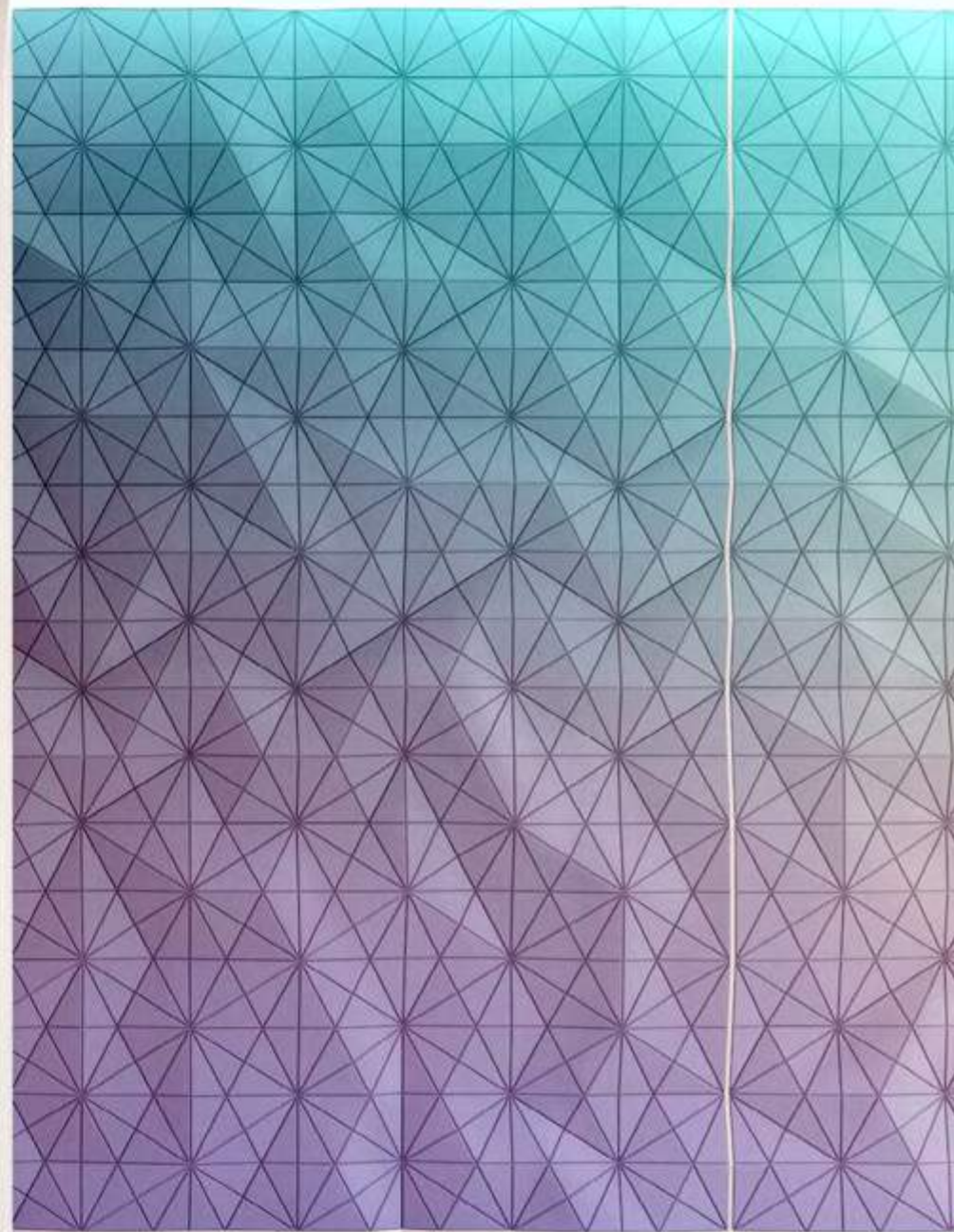
Mesh Panels - BASIC B - Laminate on okoume



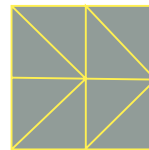
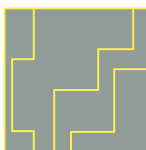
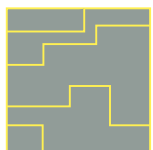
Mesh Panels - BASIC A - Metal laminate



Mesh Panels - DECOR A - Printed birch



Fold Panels

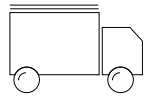


Fold Panels are 3D boards with compelling geometries, built inside square or rectangular modules. The Fold Panel concept is uniquely suited to transform a space with the colors and configurations that best fit the project's overall vision of the architect. A robust frame sustains the weight of the panels and facilitates the installation on walls and ceilings. The most important part of the new panels is an online configurator: the user has the possibility to change parameters of the standard panel directly online, changing dimensions, shape, materials, download the file and use it inside his project.

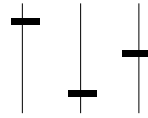
Propelled by the optimization of sustainable materials, the simple design of our Fold Panels establishes a comfortable atmosphere for the user, facilitating any preference through a tailored approach.

The Fold panels system is composed of three different lines: A-gami, O-gami and U-gami. More than ever, these make it possible to create unique three-dimensional coverings with a wide range of material finishes and quick, easy assembly.

DISTINCTIVE VALUES



FLAT/ROLLED
SHIPPING



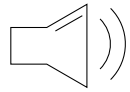
HIGHLY
CUSTOMIZABLE



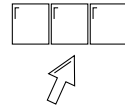
LIGHTWEIGHT
HOLLOW SHELL



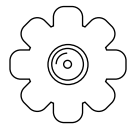
NO BACKING STRUCTURE
NEEDED



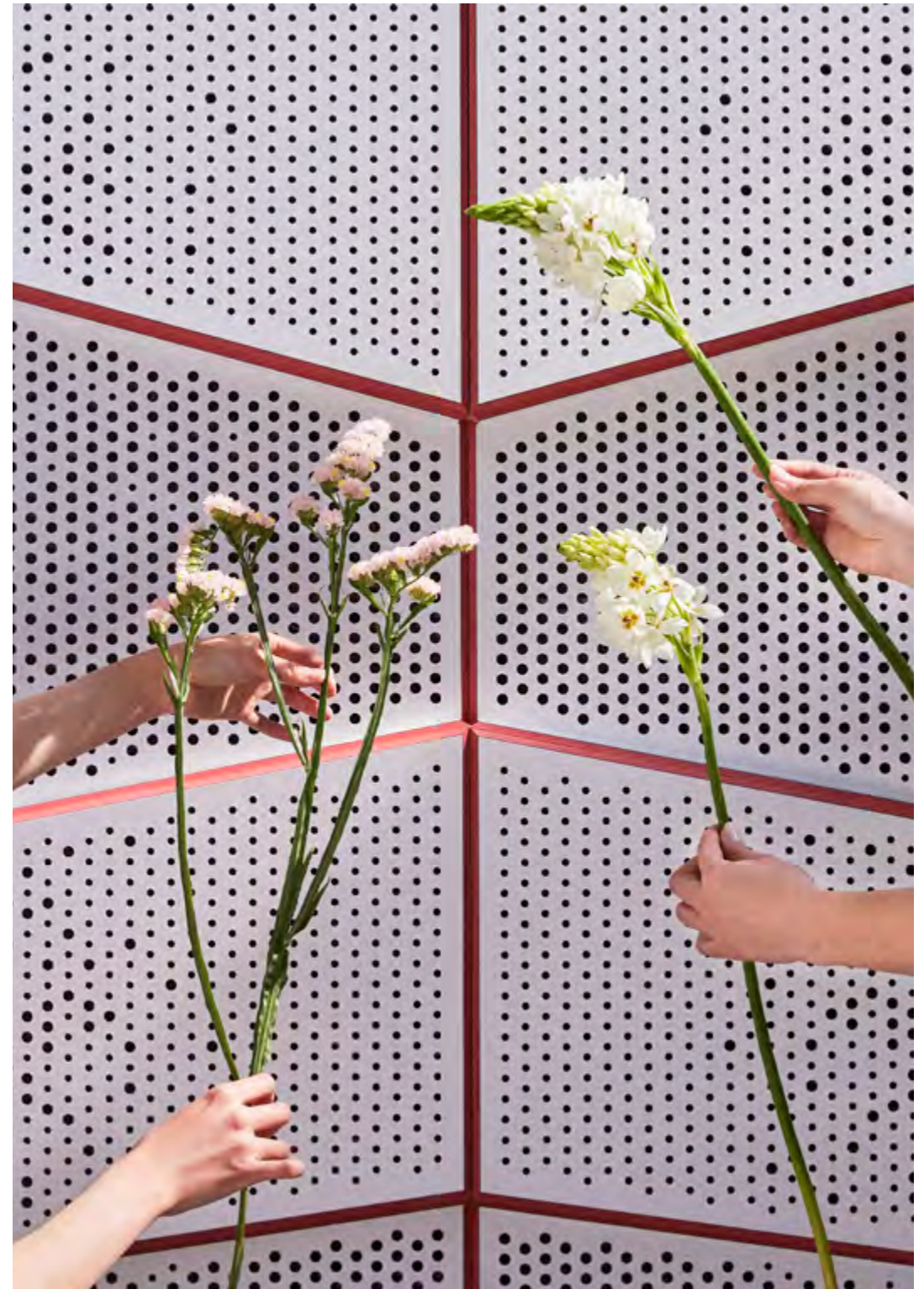
HIGH ACOUSTIC
PERFORMANCE



WIDE SELECTION OF MATERIALS, FINISHES
AND PATTERNS



EASY TO INSTALL













A-GAMI_SA



SA_01

MATERIALS	PANEL DIMENSIONS
 BIRCH – varnished – laminated – veneered	2700x900mm
 OKOUME – varnished – laminated – veneered	2700x900mm
 COLORED MDF – varnished – laminated – veneered	2100x900mm 2700x900mm (only for black MDF)
 ULTRA-THIN RECONSTITUTED WOOD on okoume/birch/MDF	2100x900mm 2700x900mm
 LAMINATE on okoume/birch/MDF	2700x900mm
 METAL LAMINATE on okoume/birch/MDF	2100x900mm
 SYNTHETIC FELT	2100x900mm
 SOLID SURFACE	2700x900mm



Fold Panels - A-GAMI_SA_01 - Laminated MDF with acoustic perforation



DO_01_RECTANGULAR




DO_02_SQUARE

MATERIALS

 BIRCH
— varnished
— laminated
— veneered

 OKOUME
— varnished
— laminated
— veneered


 COLORED MDF
— varnished
— laminated
— veneered

 ULTRA-THIN
RECONSTITUTED WOOD

 LAMINATE

 METAL LAMINATE

 SYNTHETIC FELT

 SOLID SURFACE

PANEL DIMENSIONS

2700x900mm

2700x900mm

2100x900mm
2700x900mm
(only for black MDF)

2100x900mm
2700x900mm

2700x900mm

2100x900mm

2100x900mm

2700x900mm











Fold Panels - O-GAMI_DO - Ultra-thin reconstituted wood



O-GAMI_NO



NO_01

MATERIALS	PANEL DIMENSIONS
 BIRCH – varnished – laminated – veneered	2700x900mm
 OKOUME – varnished – laminated – veneered	2700x900mm
 COLORED MDF – varnished – laminated – veneered	2100x900mm 2700x900mm (only for black MDF)
 ULTRA-THIN RECONSTITUTED WOOD	2100x900mm 2700x900mm
 LAMINATE	2700x900mm
 METAL LAMINATE	2100x900mm
 SYNTHETIC FELT	2100x900mm
 SOLID SURFACE	2700x900mm



Fold Panels - O-GAMI_NO - Ultra thin reconstituted wood



O-GAMI_SO




SO_RECTANGULAR




SO_SQUARE

MATERIALS


 BIRCH
– varnished
– laminated
– veneered

 OKOUME
– varnished
– laminated
– veneered

 COLORED MDF
– varnished
– laminated
– veneered

 ULTRA-THIN
RECONSTITUTED WOOD

 LAMINATE

 METAL LAMINATE

 SYNTHETIC FELT

 SOLID SURFACE

PANEL DIMENSIONS

2700x900mm

2700x900mm

2100x900mm
2700x900mm
(only for black MDF)

2100x900mm
2700x900mm

2700x900mm

2100x900mm

2100x900mm

2700x900mm



Fold Panels - O-GAMI_SO - Synthetic felt



O-GAMI_TO



TO_01




TO_02



TO_03

MATERIALS

 BIRCH
— varnished
— laminated
— veneered

 OKOUME
— varnished
— laminated
— veneered

 COLORED MDF
— varnished
— laminated
— veneered

 ULTRA-THIN
RECONSTITUTED WOOD

 LAMINATE

 METAL LAMINATE

 SYNTHETIC FELT

 SOLID SURFACE

PANEL DIMENSIONS

2700x900mm

2700x900mm

2100x900mm
2700x900mm
(only for black MDF)

2100x900mm
2700x900mm

2700x900mm

2100x900mm

2100x900mm

2700x900mm











Fold Panels - O-GAMI_TO - Veneered MDF



U-GAMI_FU



FU_02









MATERIALS	PANEL DIMENSIONS
 BIRCH – varnished – laminated – veneered	2700x900mm
 OKOUME – varnished – laminated – veneered	2700x900mm
 COLORED MDF – varnished – laminated – veneered	2100x900mm 2700x900mm (only for black MDF)
 ULTRA-THIN RECONSTITUTED WOOD on okoume/birch/MDF	2100x900mm 2700x900mm
 LAMINATE on okoume/birch/MDF	2700x900mm
 METAL LAMINATE on okoume/birch/MDF	2100x900mm
 SYNTHETIC FELT	2100x900mm
 SOLID SURFACE	2700x900mm



Fold Panels - U-GAMI_FU - Laminate



YU_02

MATERIALS	PANEL DIMENSIONS
 BIRCH – varnished – laminated – veneered	2700x900mm
 OKOUME – varnished – laminated – veneered	2700x900mm
 COLORED MDF – varnished – laminated – veneered	2100x900mm 2700x900mm (only for black MDF)
 ULTRA-THIN RECONSTITUTED WOOD on okoume/birch/MDF	2100x900mm 2700x900mm
 LAMINATE on okoume/birch/MDF	2700x900mm
 METAL LAMINATE on okoume/birch/MDF	2100x900mm
 SYNTHETIC FELT	2100x900mm
 SOLID SURFACE	2700x900mm



Fold Panels - U-GAMI_YU - Laminate

CRAFTING ELEGANCE
VICENZA, ITALY

WOOD-SKIN® | CATALOGUE



NAME: Crafting elegance

CLIENT: Fabio Collection Jewelry

DESIGN: DS Architettura

LOCATION: Vicenza Oro 2023 - Italy

CATEGORY: Temporary

YEAR: 2023

WORK: Fold Panels

PATTERN: U-GAMI FU

W—S COMPOSITE: Ultra-thin reconstituted wood on Black MDF and fire coating

INTEGRATIONS: Lights and polycarbonate

APPLICATION: Walls

PHOTO CREDITS: Marco Reggi

DISCOVER >



SHI'S SUSHI RESTAURANT
MILAN, ITALY



NAME: Shi's Sushi Restaurant

LOCATION: Milan - Italy

CATEGORY: Restaurant

YEAR: 2022

WORK: Fold Panels

PATTERN: O-GAMI NO

W—S COMPOSITE: Ultra-thin reconstituted wood

APPLICATION: Ceiling

PHOTO CREDITS: Andrea Segliani

[DISCOVER >](#)



ONLINE TOOLS

We provide designers with a new online tools:

Custom Panel Configurator

This more advanced digital tool enables you to intuitively model the form and aesthetic characteristics of the panels at will, thanks to the use of parametric sliders. The configurator allows you to push beyond the logic of the standard product and adapt the Fold Panels to your creative needs, obtaining truly unique results.

TRY >

1 – MODEL

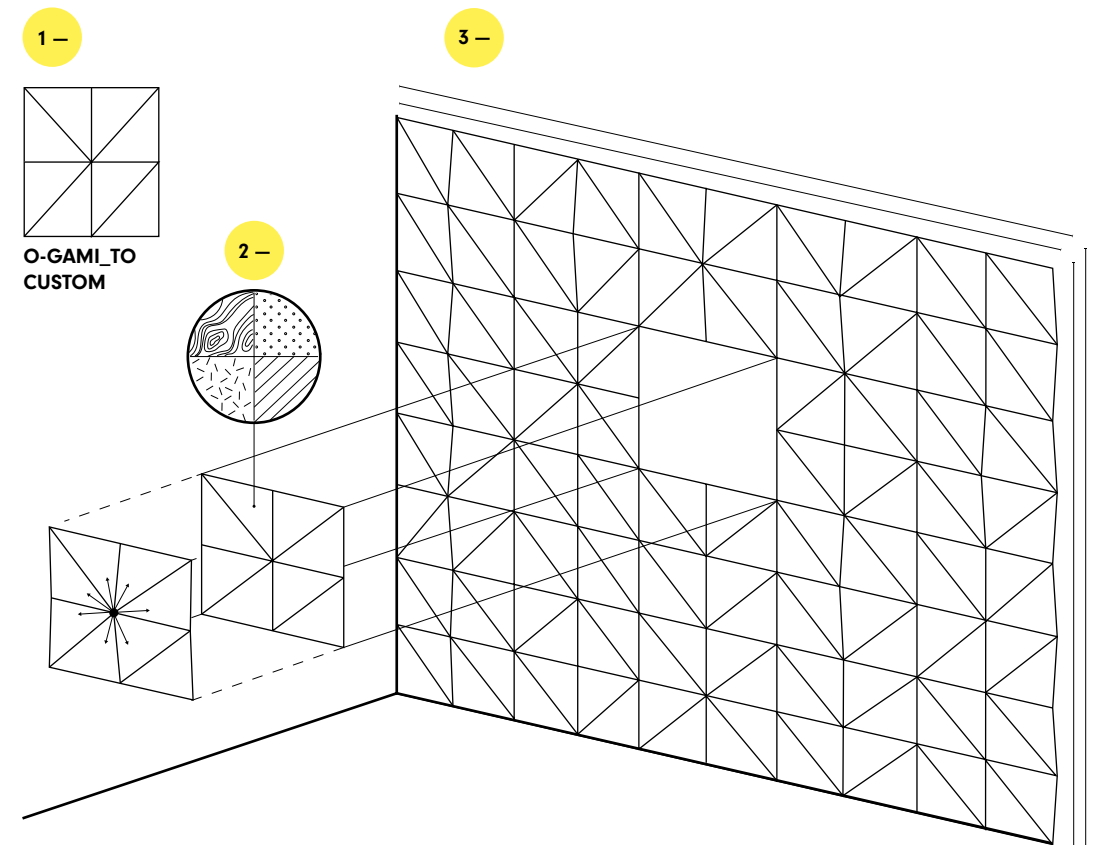
Choose a pattern among our standard sizes and then change it with the parametric slider

2 – MATERIAL

Choose and set the material you prefer

3 – NUMBER OF PANELS

Insert wall or ceiling measurements and the number of panels you want



**Tailor
Made**

TURN YOUR IDEAS INTO REALITY

Tailor-made surfaces are unique bespoke products created for specific projects. The guiding design principle here is the geometry.

Our architectural and design team has years of experience working with top firms on international projects, and there's nothing that excites us more than the challenge of engineering intricate shapes, designing custom details, and devising solutions to 'impossible' problems.

The WOOD—SKIN design team is able to discretize any complex geometric input with single or double curvature, and transform it into a series of flat elements easily produced and installed.

Thanks to WOOD—SKIN's proprietary design software and programmable manufacturing process, the most expensive and time-consuming aspects of customization are significantly reduced.

AVAILABLE PATTERNS AND DIMENSIONS

The machinable slabs have a maximum size of 3000x1200mm. Within these slabs, WOOD—SKIN® software optimizes the space to make the best use of the material. This process is called nesting and depends on the size of the shapes to be obtained.

FACTOR: this number refers to the additional amount of WOOD—SKIN® we need to take into account to cover a certain area. We need more WOOD—SKIN® than the net surface area to cover to achieve a 3D effect, due to the differences in sizes between our production sheets and the amount of WOOD—SKIN® surface used to achieve the desired 3D effect.

#WAVE



Project example: Muze Gazhane, Istanbul

#FLUID



Project example: Milano Apartment, Milano

#CLOTH



Project example: Room XIX of UN Palace, Geneva

#MORPH



#GEODE



Project example: Muze Gazhane, Istanbul

ROOM XIX OF UN PALACE
GENEVA, SWITZERLAND



NAME: United Nation Palace, Room XIX

CLIENT: State of Qatar for UN organization

DESIGN: Peia Associati

LOCATION: Geneva - Switzerland

CATEGORY: Institutional

YEAR: 2019

APPLICATION: Suspended ceiling and wall

PRODUCT: ceiling: Tailor Made #Cloth
wall: Tailor Made #Morph

W-S COMPOSITE: side A: Varnished Okoume plywood
side B: Okoume plywood

PHOTO CREDITS: Delfino Sisto Legnani - DSL studio

DISCOVER >



NAME: Milano Today Apartment

CLIENT: Pier Lomascolo

DESIGN: Pier Lomascolo and WOOD—SKIN team

LOCATION: Milano - Italy

CATEGORY: Residential

YEAR: 2018

APPLICATION: Wall covering

PRODUCT: Tailor Made #Fluid

W—S COMPOSITE: side A: Japanese Cedar reconstituted
wood by Alpi Wood
side B: Okoume plywood

PHOTO CREDITS: Pier Lomascolo

DISCOVER >



LA CLEF CHAMPS ELYSEES
PARIS, FRANCE



NAME: LA CLEF CHAMPS-ELYSEE

CLIENT: Ascott the Residence

DESIGN: Jean-Philippe Nuel

LOCATION: Paris, France

CATEGORY: Hospitality

YEAR: 2019

APPLICATION: Suspended ceiling

PRODUCT: Tailor Made #Geode

W—S COMPOSITE: Mirror laminate

PHOTO CREDITS: WOOD—SKIN

DISCOVER >

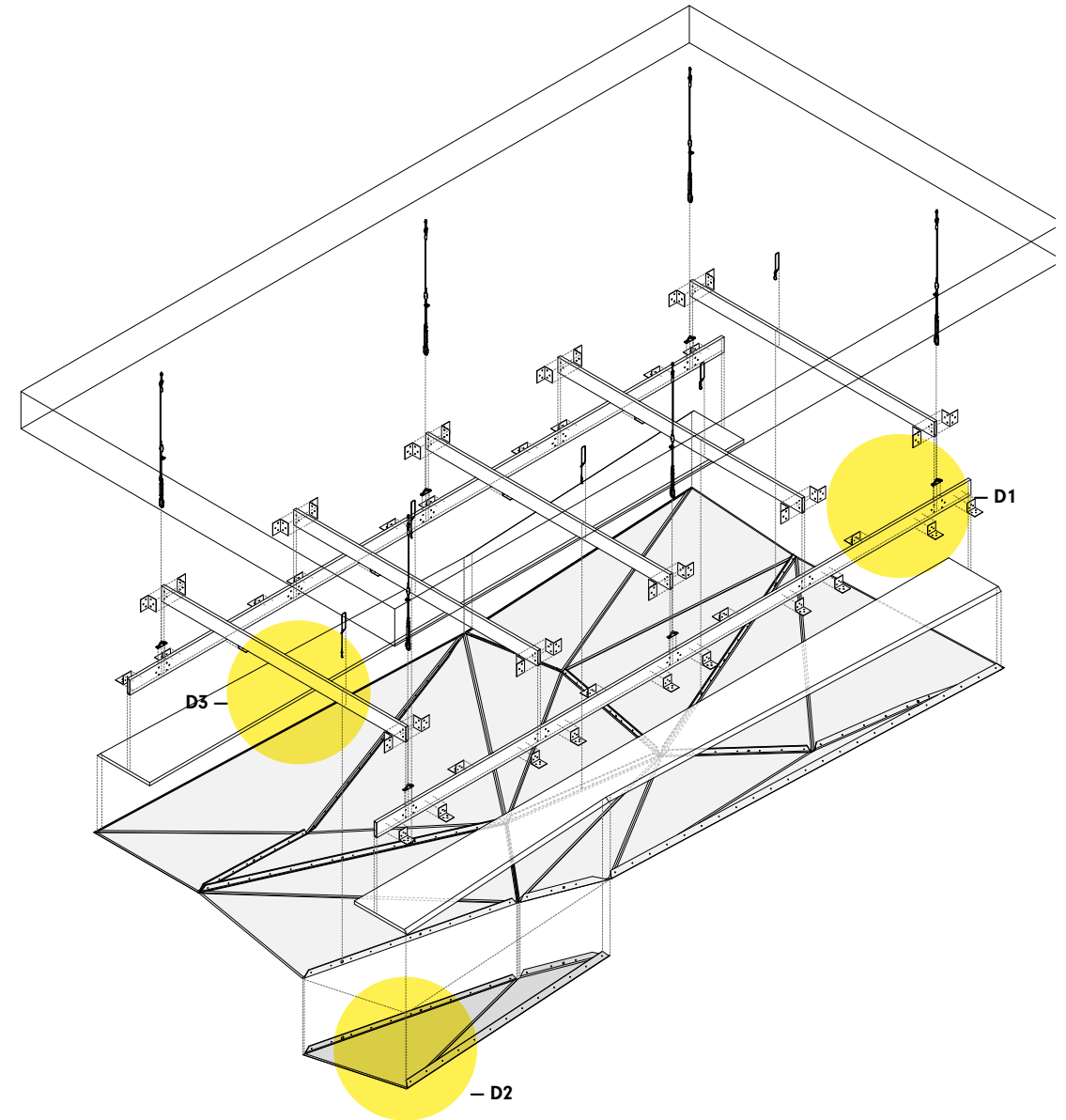




Our Tailor Made product allows the generation and design of complex geometric surfaces, which can then be easily installed through many techniques.

For the installation of suspended ceilings, custom cut jigs and an aluminium supporting structure are used.

The Tailor Made sheets are attached to the jigs with their border flaps which remain concealed thanks to the special angle of milling.



D1 — Aluminium frame and jig joint

D2 — Inner flap joint and suspension cable attachment

D3 — Side flap joint to a jig

BALLSTON POINT
ARLINGTON, USA



NAME: Ballston Point

DESIGN: Gensler

CONTRACT: HITT Contracting

PARTNERSHIP: Washington Woodworking

METAL SURFACE BY: pure+freeform

LOCATION: Arlington, USA

CATEGORY: Institutional

YEAR: 2020

APPLICATION: Wall and ceiling

PRODUCT: Tailor Made #Morph #Fabric

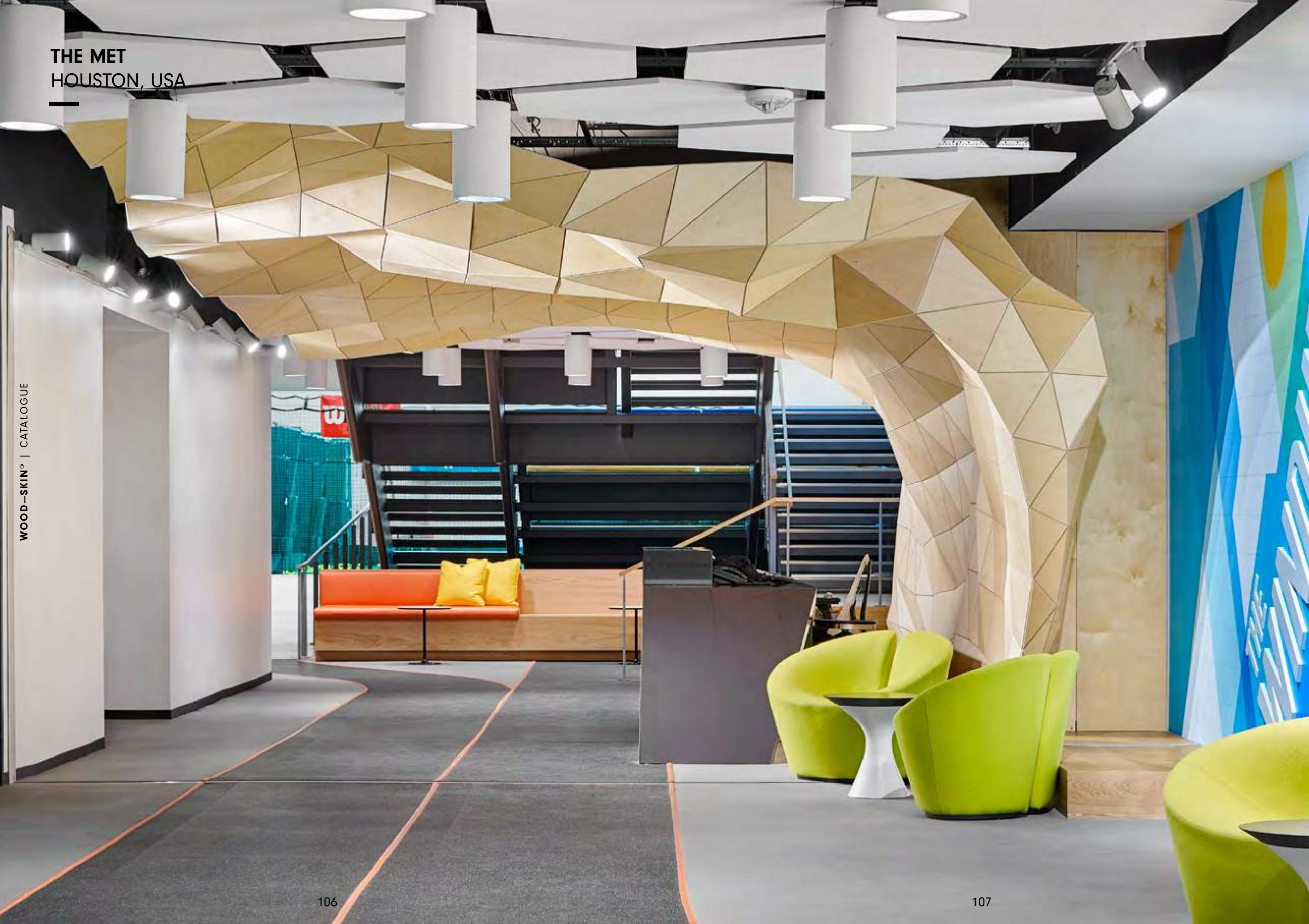
W—S COMPOSITE: side a: Ultra-thin reconstituted wood
side B: Okoume plywood

PHOTO CREDITS: Gensler

DISCOVER >



THE MET
HOUSTON, USA



NAME: The MET

CLIENT: State of Qatar for UN organization

DESIGN: Gensler Design

LOCATION: Houston, Texas

CATEGORY: Hospitality

YEAR: 2017

APPLICATION: Wall and ceiling

PRODUCT: Tailor Made #Morph #Fuse

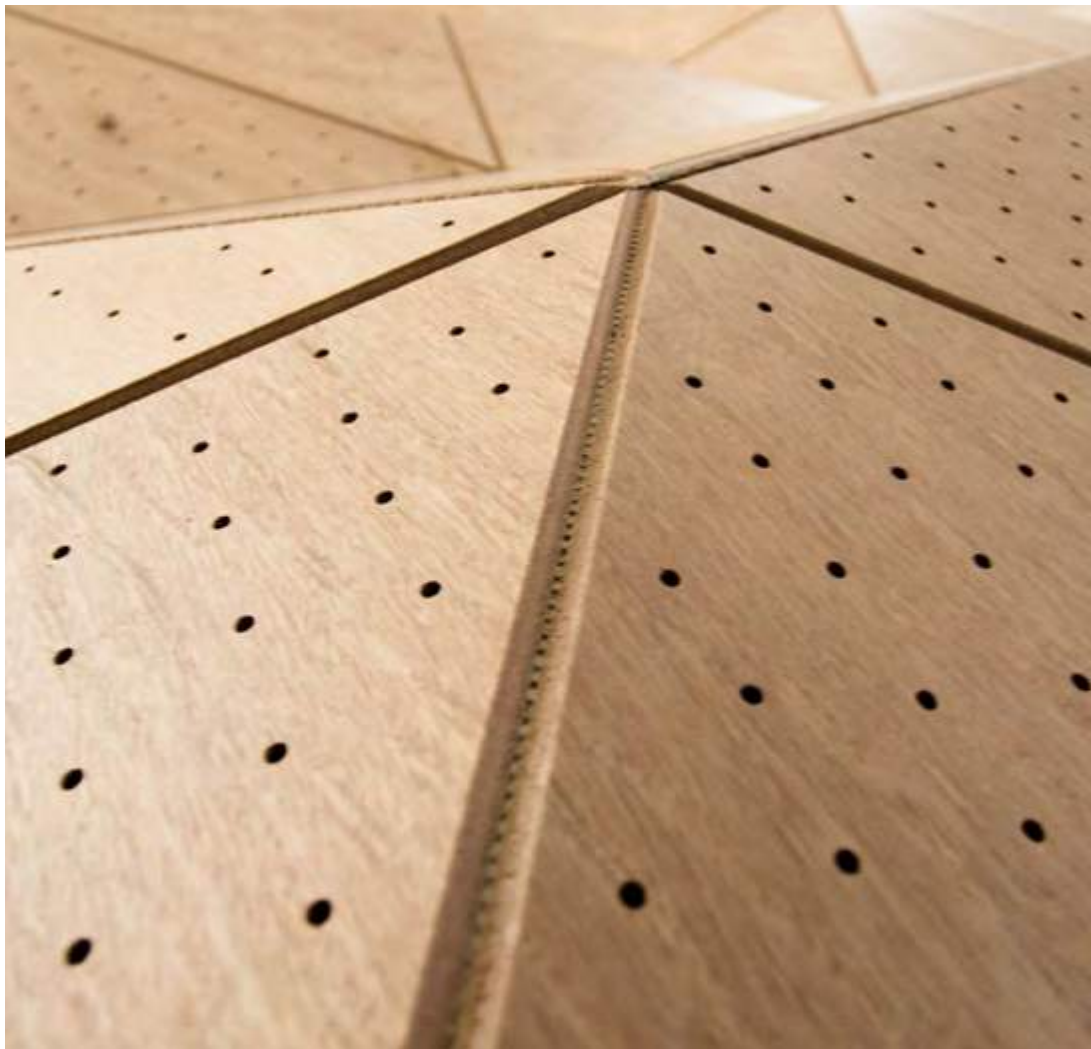
W—S COMPOSITE: side a: Finnish birch plywood with fire clear coat
side B: Birch plywood

PHOTO CREDITS: Gensler

DISCOVER >



ACOUSTIC WORK OF ART



Okoume plywood - Acoustic perforation

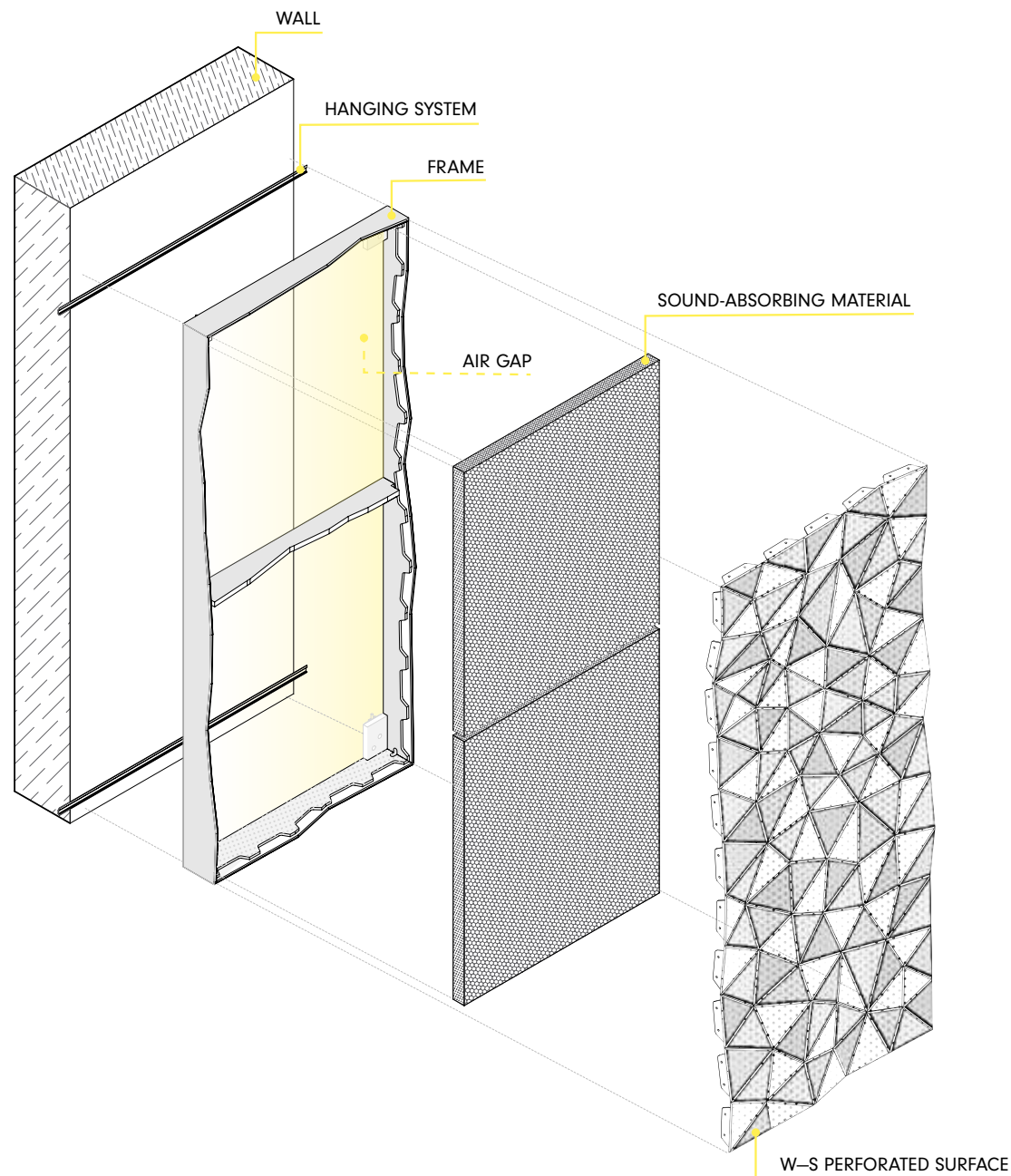
ACOUSTIC PANELS

The full range of WOOD—SKIN surfaces is now even more functional, offering significantly improved acoustic performance which therefore improves the sound quality and experience of the spaces we occupy. WOOD—SKIN's unique features make it a new-generation acoustic product that combines multiple properties in a single solution which would otherwise require a number of more specialized and less versatile products.

All WOOD—SKIN products contribute widely to the acoustic comfort of the space in which they are installed "per se": the extensive surface in wood, tessellated, allows a perfect diffusion of the sound and reduces echo. Acoustic treatment has been studied and tested in certified labs, to obtain high results in sound absorption. WOOD—SKIN surfaces can offer high-performance acoustic absorption and diffusion thanks to the possibility of perforating the surface and the right choice of acoustic backing.

With WOOD—SKIN you can customize the acoustic performance of your space down to the millimetre, for a result that is both visually stunning and technically impeccable.

Thanks to the digital nature of WOOD—SKIN, it is possible to enrich our surfaces with variable perforation density, creating areas with specific performance criteria. Additionally, the natural 3D shapes of our surfaces offer great diffusion and scattering performances. The result is a product that tells a story with elegance, through a defined and controlled design concept, as opposed to last-minute acoustic adjustments. A solution that adapts not only to the form of a given space but to the acoustic experience that it is intended to provide.



PERFORATIONS

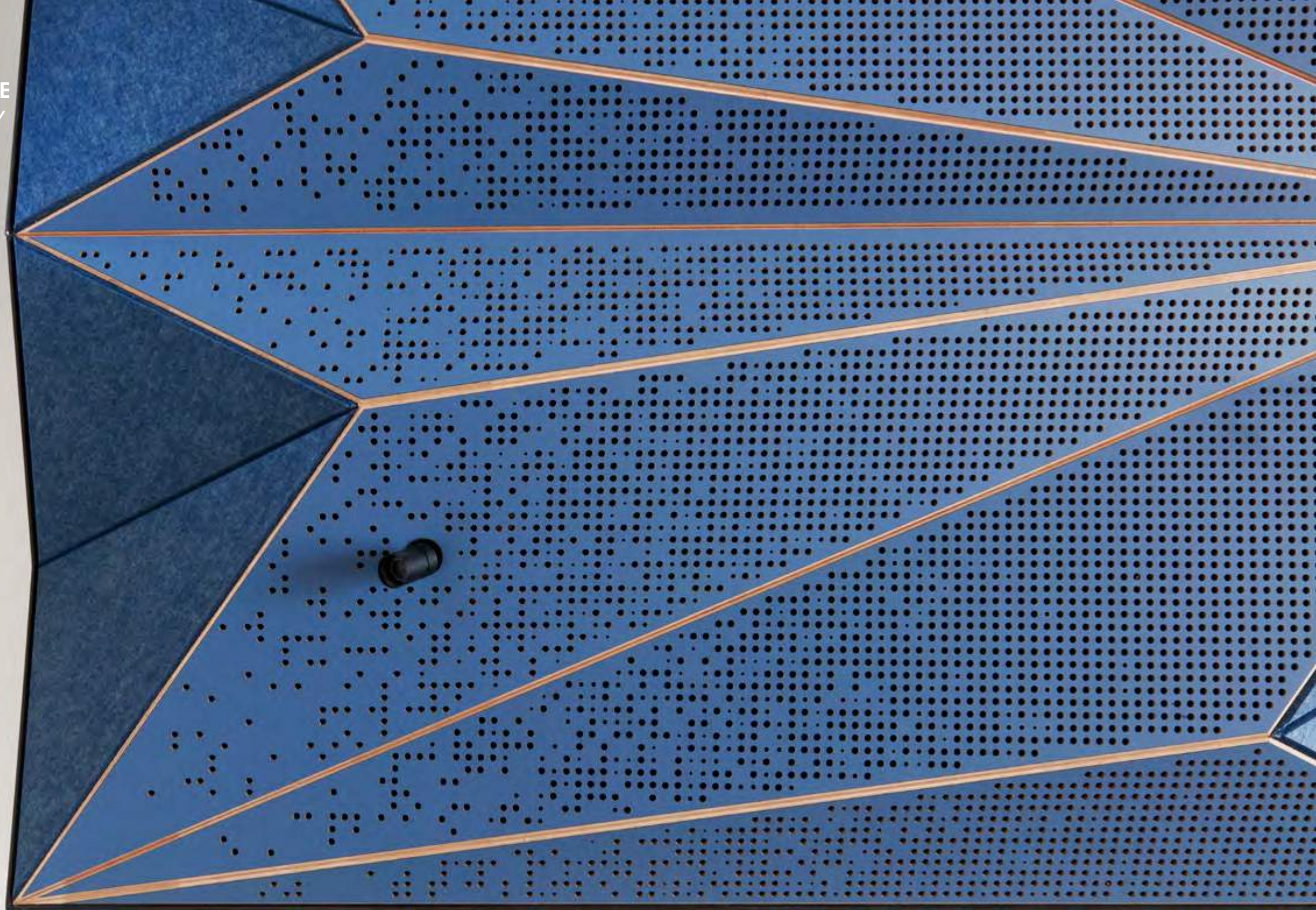
The three-dimensionality of the W-S surfaces, the patented design and the installation method, all concur to create a high-performance acoustic solutions. In the back of the panel, between the W-S panel and the ceiling/wall to which it is applied, an air gap is created. In this air gap, it is possible to insert a sound-absorbing material. On the front of the panel, the 3D surface is perforated according to aesthetic and technical needs.

The W-S panels have been tested according to the European UNI ISO 354 and the American ASTM C 423 standards and with the use of 2 high-performance sound-absorbing materials.

The perforation pattern options are endless. The required open area can be achieved with circular holes or lines.

NOTE: the sound-absorbing material can be supplied by W-S upon specific request.

FOLD HOUSE
MILAN, ITALY



NAME: FOLD HOUSE

DESIGN: WOOD—SKIN

LOCATION: Milan - Italy

CATEGORY: Private residence

YEAR: 2021

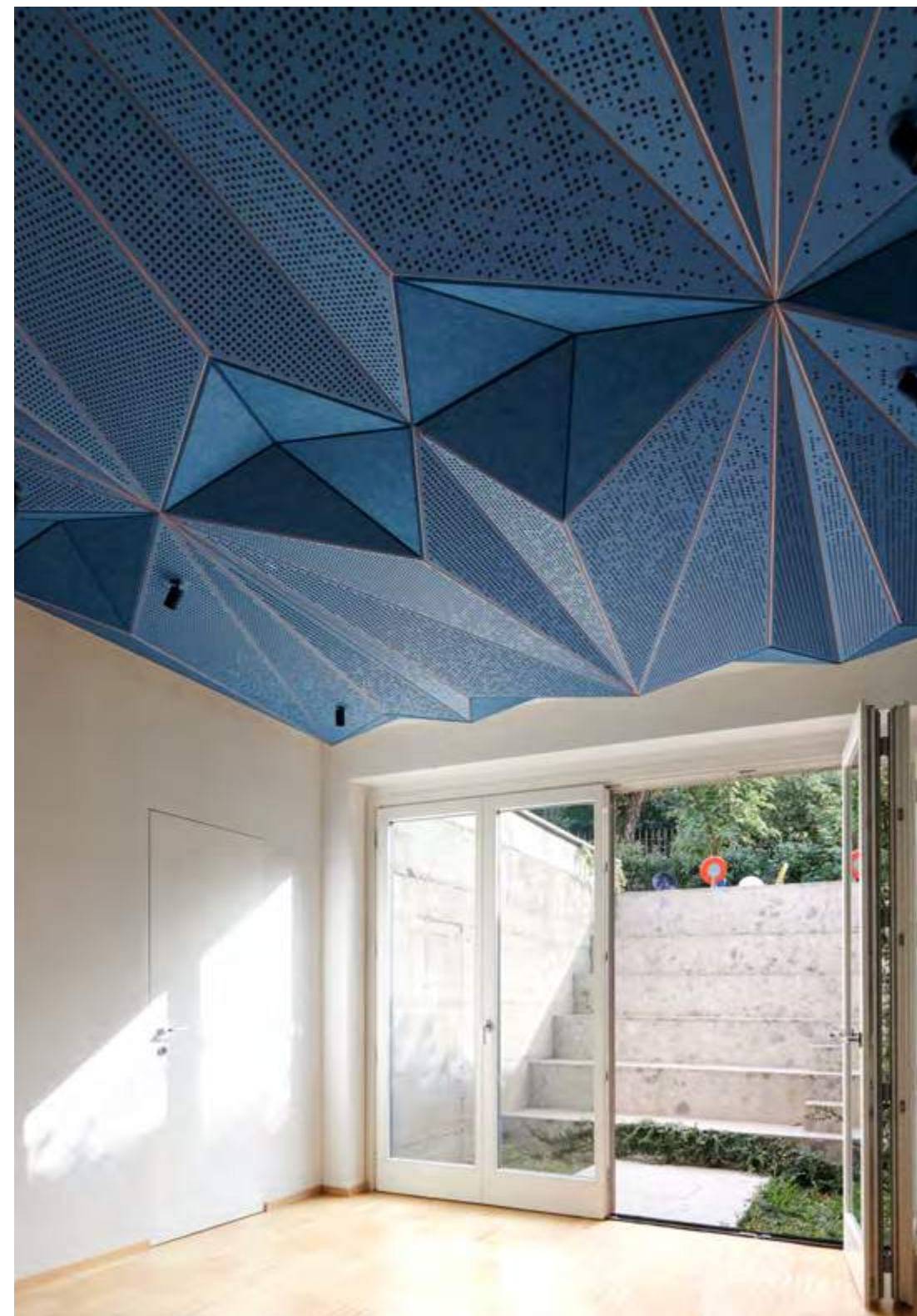
APPLICATION: Ceiling

PRODUCT: Fold Panels O-GAMI SO with acoustic perforation

W—S COMPOSITE: side a: Recycled synthetic felt and laminated okoume
side B: Okoume

PHOTO CREDITS: Andrea Segliani

DISCOVER >



Laminated okoume and synthetic felt - Acoustic feature

INTEGRATION

OPTIONS

INTEGRATION OPTIONS

Integrating elements like doors, light fixtures, sprinklers and speakers is an important part in the design and installation of WOOD—SKIN surfaces.

The following examples describe the technical details and installation of typical integrations developed by our design team.

The versatility of the WOOD—SKIN system allows for many more additional customizations, which are made easy by the digital design and fabrication processes we use.

Each of these should be discussed with our design team and realized based on the specific design brief.

DOORS AND OPENINGS



Project example: Lebkov&Sons, Amsterdam

INTEGRATION OF OTHER MATERIALS



Project example: +GLASS

FIXTURES AND LIGHTING

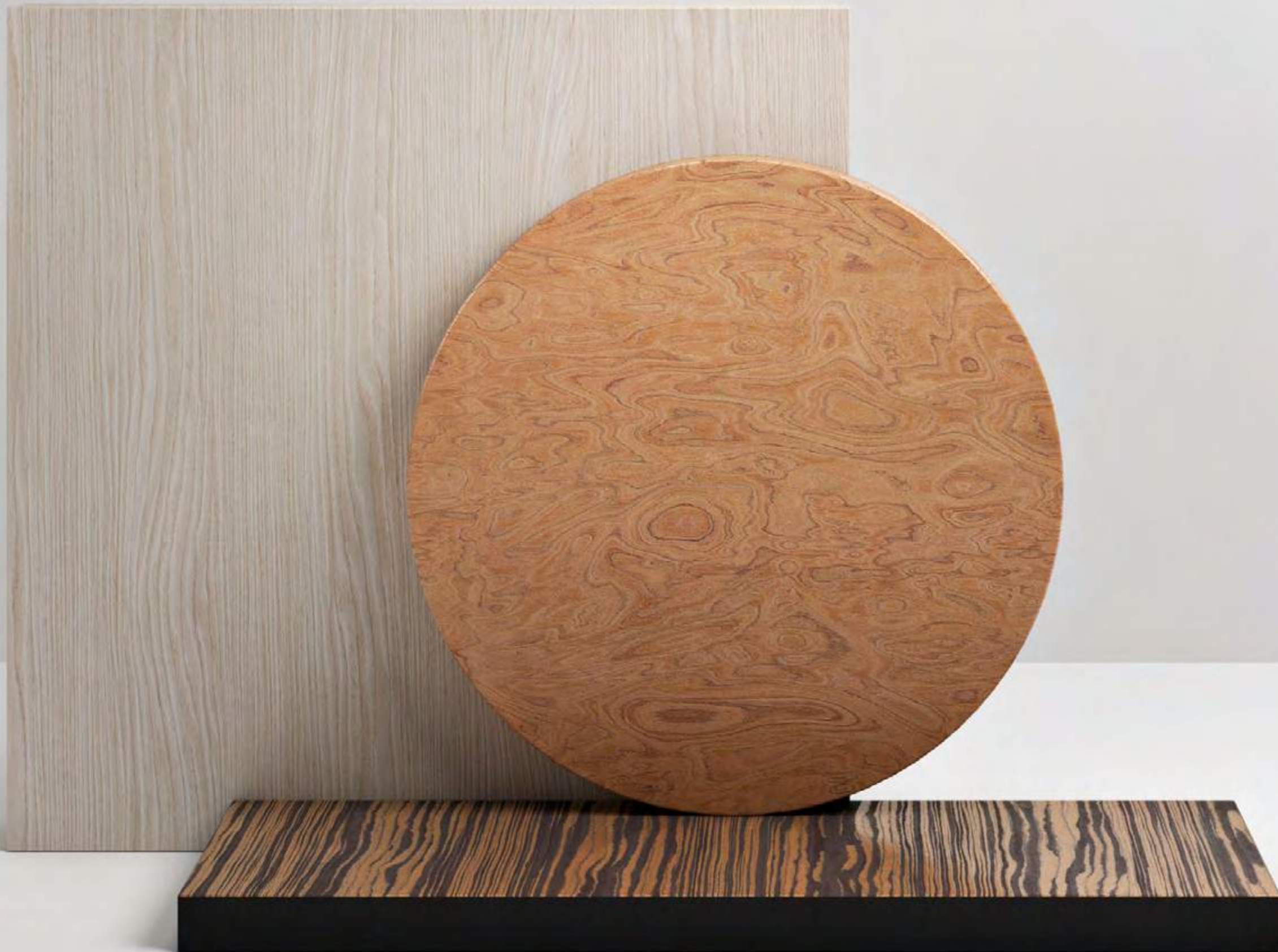


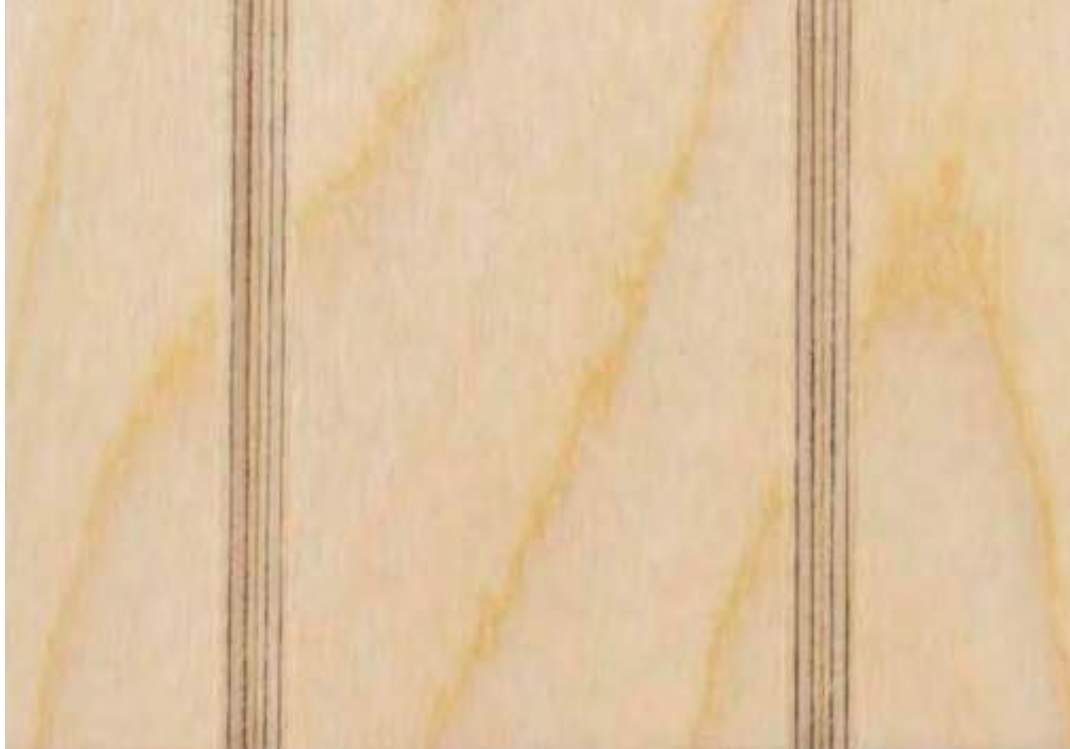
Project example: Ligna 2015, Hannover

SPRINKLER



AVAILABLE
MATERIALS





BIRCH PLYWOOD

**CHARACTERISTICS**

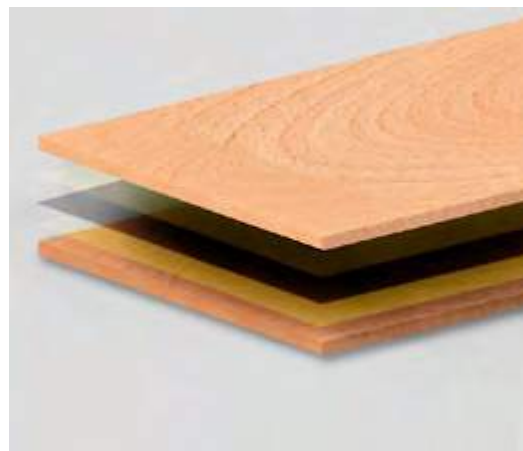
High quality aesthetic and structural performance.

FINISHES AVAILABLE ON BIRCH

- + Veneer (wide variety)
- + Ultra-thin reconstituted wood
- + Laminate (wide variety)
- + Transparent varnish
- + Aluminum

COLOR

Light color with amber hue

**SUGGESTED APPLICATION**

Indoor application

FRONT SURFACE

Birch plywood | 4mm

BACK SURFACE

Birch plywood | 4mm



FIRE RETARDANT TREATMENT AVAILABLE



ACOUSTIC VERSION AVAILABLE



OKOUME

**CHARACTERISTICS**

High quality marine plywood. Dimensionally stable and resistant to moisture. Lightweight

FINISHES AVAILABLE ON OKOUME

- + Veneer (wide variety)
- + Ultra-thin reconstituted wood
- + Laminate (wide variety)
- + Transparent varnish
- + Aluminum

COLOR

Warm hue

**SUGGESTED APPLICATION**

Indoor application

FRONT SURFACE

Okoume plywood | 4mm

BACK SURFACE

Okoume plywood | 4mm



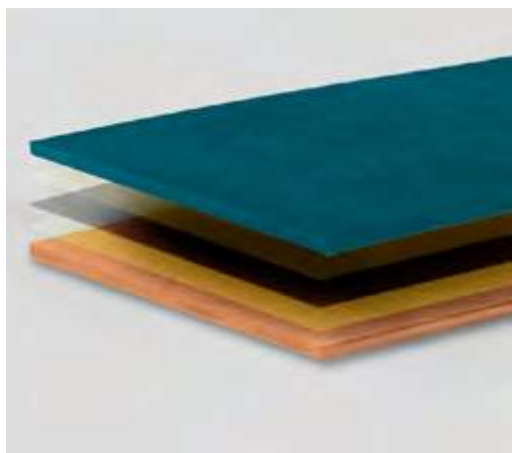
FIRE RETARDANT TREATMENT AVAILABLE



ACOUSTIC VERSION AVAILABLE



COLORED MDF

**CHARACTERISTICS**

Recommended for low-stress applications or temporary installations. Moderately hydrophobic.

FINISHES AVAILABLE ON MDF

- + Veneer (wide variety)
- + Ultra-thin reconstituted wood
- + laminate (wide variety)
- + Transparent varnish
- + Aluminum

COLOR

Wide variety

SUGGESTED APPLICATION

Indoor application

FRONT SURFACE

Colored MDF | 4mm

BACK SURFACE

Okoume plywood | 4mm



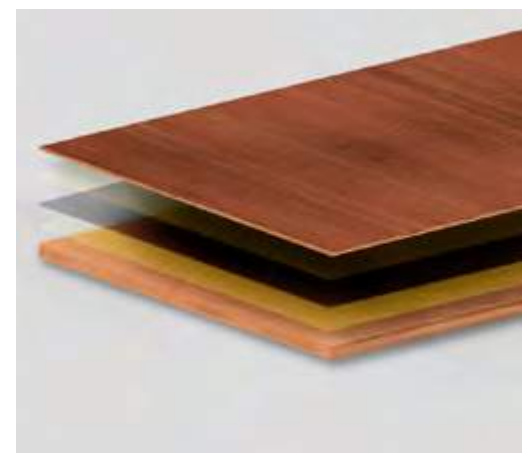
FIRE RETARDANT TREATMENT AVAILABLE



ACOUSTIC VERSION AVAILABLE



RECONSTITUTED WOOD

**CHARACTERISTICS**

High-quality and aesthetic

FINISHES AVAILABLE ON RECONSTITUTED WOOD

- + Transparent varnish

COLOR

Wide variety

SUGGESTED APPLICATION

Indoor application

FRONT SURFACE

Reconstituted wood | 1.8mm

BACK SURFACE

Okoume plywood | 4mm



FIRE RETARDANT TREATMENT AVAILABLE



ACOUSTIC VERSION AVAILABLE

**ANODIZED ALUMINUM****CHARACTERISTICS**

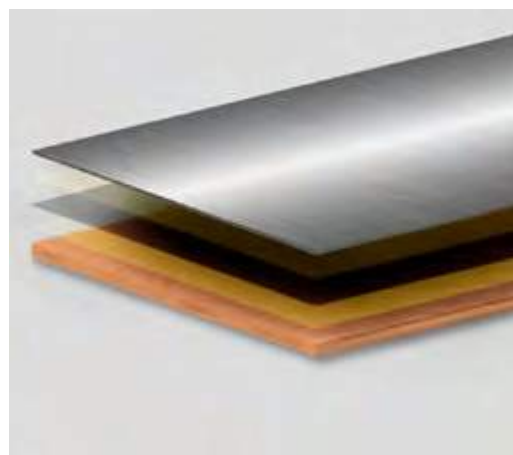
High quality and resistance

FINISHES AVAILABLE ON ALUMINUM

+ No finish

COLOR

Wide variety

**SUGGESTED APPLICATION**

Indoor and outdoor application

FRONT SURFACE

Aluminum | 0.6 - 1mm

BACK SURFACE

Okoume plywood | 4mm

**FULL COLOR LAMINATE****CHARACTERISTICS**

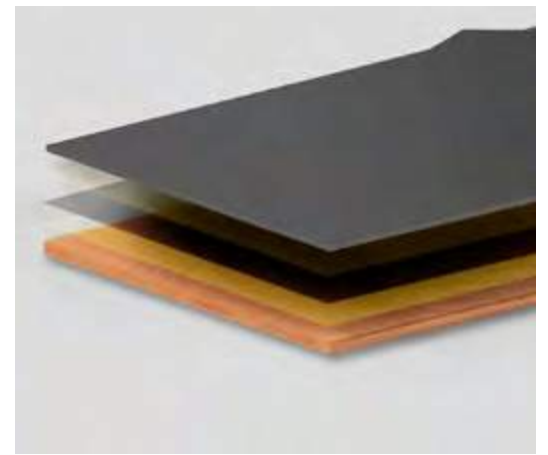
An innovative nanotech material for interior design: a smart, extremely matt, anti-fingerprint, very resistant, soft touch surface.

FINISHES AVAILABLE ON LAMINATE

+ No finish

COLOR

Wide variety

**SUGGESTED APPLICATION**

Indoor application

FRONT SURFACE

Laminate | 0.7 - 1.2mm

BACK SURFACE

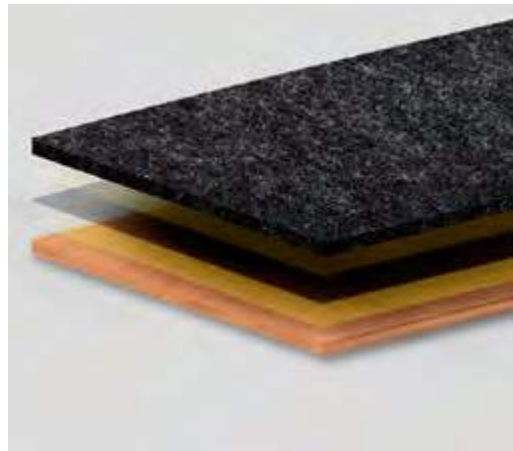
Okoume plywood | 4mm



**ACOUSTIC VERSION
AVAILABLE**



SYNTHETIC FELT

**CHARACTERISTICS**

The acoustically highly effective fibre-reinforced composite ensures a high level of sound absorption, even with a low material thickness.

FINISHES AVAILABLE ON SYNTHETIC FELT

+ No finish

COLOR

Wide variety

SUGGESTED APPLICATION

Indoor application

FRONT SURFACE

Synthetic felt | 5mm

BACK SURFACE

Okoume plywood | 4mm



**ACOUSTIC VERSION
AVAILABLE**

The complete list of available materials and finishes can be found in the pdf 'Digital Material Library' downloadable at the [Download page](#) of our website.

AVAILABLE MATERIALS
ACCORDING TO PATTERNS

WOOD-SKIN® | CATALOGUE

	MESH PANELS								FOLD PANELS						
	CLASSIC			BASIC		DIGITAL	DECOR		A-GAMI	O-GAMI				U-GAMI	
	A	C	D	A	B		A	B	SA	DO	NO	SO	TO	FU	YU
BIRCH															
OKOUME															
COLORED MDF															
LAMINATE			*			*		*	*					*	*
ULTRA-THIN RECONSTITUTED WOOD			*			*		*	*					*	*
METAL LAMINATE			*			*		*	*					*	*
SOLID SURFACE															
SYNTHETIC FELT															

*material available as finishes on plywood (birch, okoume, MDF)

CERTIFICATIONS

CERTIFICATIONS

The complete list of our suppliers certifications can be found in the pdf 'Materials certifications' downloadable at the [Download page](#) of our website.

For specific inquiries, please contact us directly by e-mail at info@wood-skin.com

ACOUSTIC

UNI EN ISO 354:2003

tested at Zeta Lab



ASTM C 423-17

tested at Zeta Lab



FIRE REACTION

Available in Class A according to US standard ASTM E-84

tested at Intertek



Available in B-s2-d0 according to European standard UNI EN 13501-1

tested at CSI



UNIAXIAL TENSILE TEST

UNI ISO EN 1421:2017

tested at Politecnico di Milano



MECHANICAL TEST - OPENING AND CLOSING CYCLES

Resistance to repeated hinges stress

tested at Catas



*Fire reaction certifications available for Russian and English market
The illustrated certifications are subject to constant revisions and continuous research.
For any further information about certifications and material tests contact us at info@wood-skin.com*

WOOD—SKIN

is a product of WOOD—SKIN s.r.l.
via Marcantonio dal Re - 24
20156 - Milano - Italy
C.F. / P.IVA 08311500964

M:
info@wood-skin.com

P:
+39 02 87036995

wood-skin.com

CREDITS

Photos by:
Omar Sartor
Marcello Tomasi
Matteo Borghi
Michael Daniele
Marco Menghi
Andrea Segliani

Art direction:
Michela Alquati
Ettore Tripodi

Graphic design:
Anna Bortolini
Elisabetta Borriello

3D drawings:
Maya Zheliazkova
Vera Irawan

Renderings:
Julia Shabanova

Printed by:
Grafiche Ambert s.r.l.

Text:
Mr. Jennings - Language
Consulting Congressi S.r.l.

MATERIALS AND FINISHES INDEX

MDF by Valchromat
valchromat.pt | gruppobonomipattini.com

Ultra thin reconstituted wood by Alpi Wood
alpiwood.com

Metal laminate by Almeco
almecogroup.com

Metal laminates by Formica
formica.com

Metal laminates by Sadun
sadun.it

Ultra matte laminates by Fenix NTM
fenixforinteriors.com

Laminates by Arpa Industriale
arpaindustriale.com

Laminates by Abet Laminati
abetlaminati.com

Laminates by Formica
formica.com

Veneers by Alpi Wood
alpiwood.com

*The illustrated products are subject to constant
revision in terms of their functional details.
Continuous research goes into the finishing
treatments.*

*The products presented in this catalogue,
as well as the descriptions and specifications, are
illustrative and subject to changes
by WOOD-SKIN srl.*

Non-contractual document



PATENTED TECHNOLOGY
Made in Italy

via Marcantonio dal Re 24
2056 | Milan, Italy

wood-skin.com