

# WOOD-SKIN

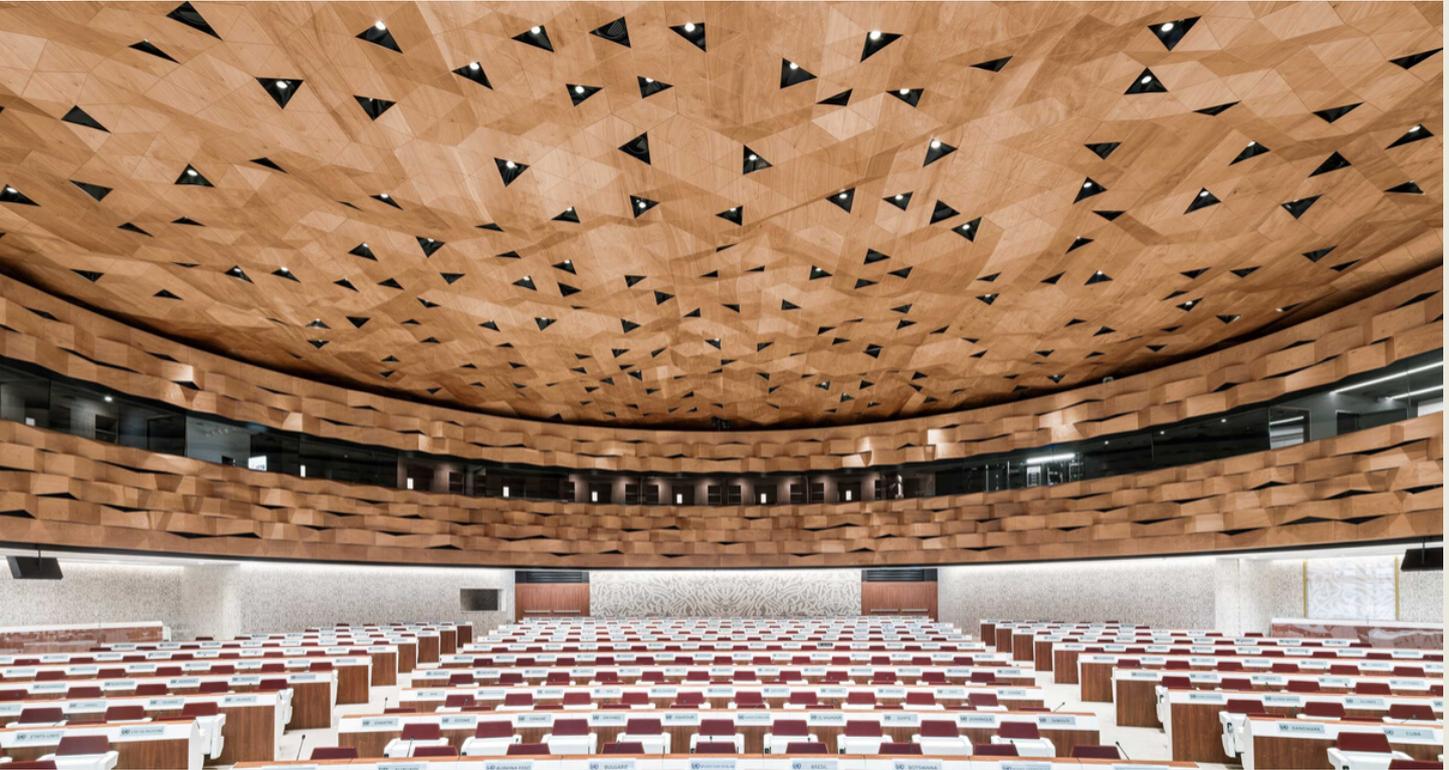
3D SURFACES FOR ARCHITECTURE AND DESIGN

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# ABOUT WOOD-SKIN

WOOD-SKIN is a brand that offers innovative products for architecture using digital manufacturing technologies. Since 2013 we've been enabling architects, designers and general contractors from all over the world to bridge the gap between digital representation and architectural feasibility.



Through our patented WOOD-SKIN® process we make rigid surfaces flexible and flat surfaces three-dimensional, bringing volume, dynamism and soul to a multitude of materials that industry and technology have traditionally relegated to the two-dimensional state. We are an interdisciplinary company made up of architects, designers and engineers united by a shared passion and a particular attention to materials, details, digital manufacturing and software.

WOOD-SKIN is designed in our headquarters in Milan, and promoted through a network of agents, in addition to participation in the most important international trade fairs. Our computational design department provides clients with the right tools at every stage of the project, from the development of the idea to its final realization.

The software, an integral part of the WOOD-SKIN® patent, allows us to tessellate the surfaces of the 3D model in order to generate the precise geometries of the

panels, which, joined by fabric hinges, recreate the exact configuration of the digital design without the use of heavy and expensive structures. Since the process can be studied and tested prior to installation, we produce optimized elements with minimal waste of material and time.

With years of experience in the construction of three-dimensional surfaces, today we are able to offer architects and builders a multitude of wall and ceiling cladding products, which can be shipped flat all over the world and installed directly by local workers thanks to a simple dry assembly system and the absence of a substructure.

The potential of WOOD-SKIN has driven us to push beyond the world of architectural design, transforming the process into a true design grammar. This has given rise to two satellite operations: the Folio brand of configurable furnishing elements, and the [Materea digital factory](#), dedicated to the manufacturing processes of the future.

# PRODUCTS

WOOD-SKIN panels are made by joining two sheets of rigid material with a textile core. Our customers can define the two external layers by choosing from a wide range of materials – not only a wide range of wood, but also laminates, aluminum, felt, etc., thanks to our partnerships with brands such as Fenix, Alpi, Almeco, Forescolor and many others.

Our three systems – Mesh Sheets, Fold Panels and Tailor Made – are customizable to the millimeter and able to meet all design requirements, making it possible to vary geometric patterns, dimensions, and finishing materials.



## WE WORKED WITH

- Dior Architecture
- Peia Associati
- Studio Akkerhuis
- Gensler design
- Superfuturedesign
- Foster and Partners
- Zaha Hadid Architects
- Prisma

## MATERIAL SUPPLIERS

- Almeco Group
- Fenix ntm
- Arpa industriale
- Alpi wood
- Forescolor
- Polysonic

## SELECTED REFERENCES

Linked 



  
**ASCOTT**  
THE RESIDENCE

Dior

ENDEMOL  
SHINE  
AUSTRALIA



Maison Margiela  
PARIS

SPORT  
MEDIASET



## **MESH SHEETS**

The revolutionary WOOD-SKIN Mesh Sheets system is a game-changing technology that unlocks the design potential of hard surfaces, allowing us to easily create smooth 3D surfaces. With Mesh Sheets it's now possible to create sleek membranes with the same look, feel, and functional properties as lighter, more flexible materials like paper or fabric. Thanks to the variable size of the facets, the curve radius can become remarkably tight while still maintaining its fluidity.

The Mesh Sheets system requires only a few anchoring points. The standard solution uses certified metal wires with a quick tensioning system to connect the wooden flaps on the WOOD-SKIN assemblies to the ceiling/wall. Depending on the existing conditions, the wire is anchored either to a standard metal grid fixed to the slab or directly to the ceiling/wall.



## **FOLD PANELS**

WOOD-SKIN Fold Panels are 3D panels with intriguing geometries, built within a rectangular or square module. Fold Panels' design is uniquely suited to transform a space with the colors and configurations that best fit the project's overall vision. A robust aluminum frame keeps the shape and makes it even easier to install on walls and ceilings.

Fold Panels are designed to be easy to install and maintain. Each piece is numbered in correspondence to the underlying frame, ensuring that all the sides are precisely fastened and aligned. Once the panel is complete, it is anchored to the wall or ceiling by simply snapping it into the previously positioned aluminum profile.

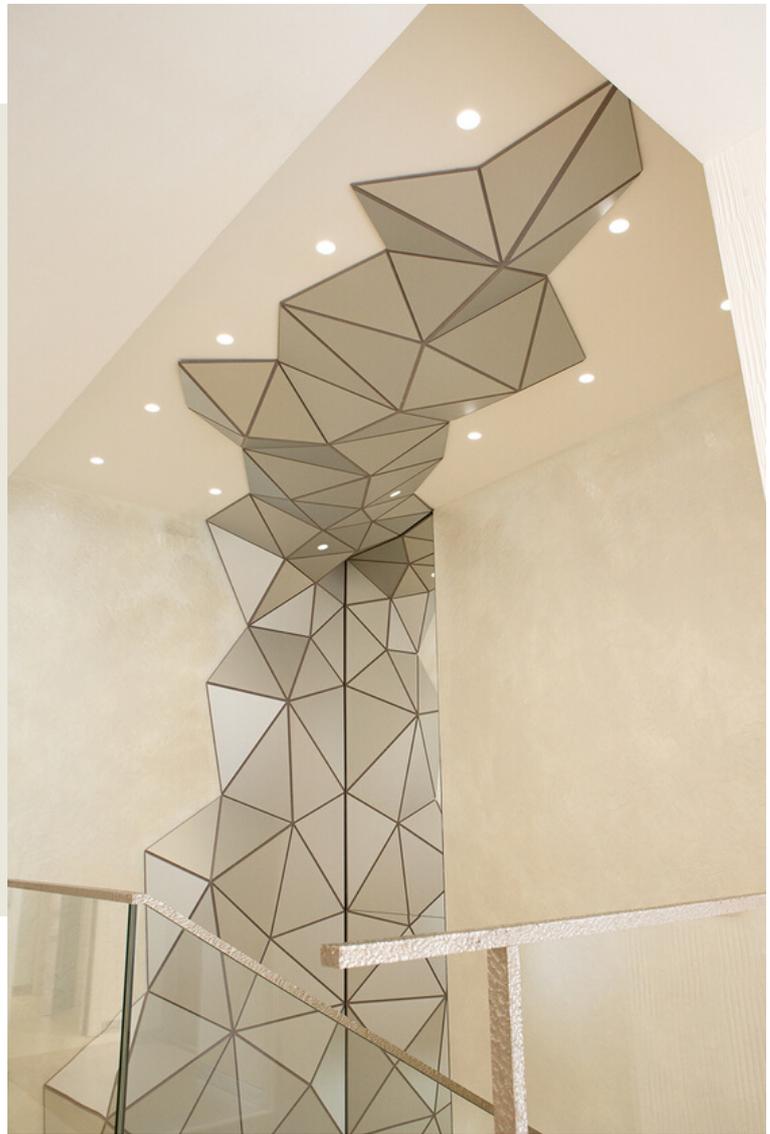
The development of the A-gami, O-gami and U-gami lines has made it possible to create unique three-dimensional coverings with just a few clicks, adapting Fold Panels even more to the specific creative needs of infinite configurations, intended for multiple purposes.



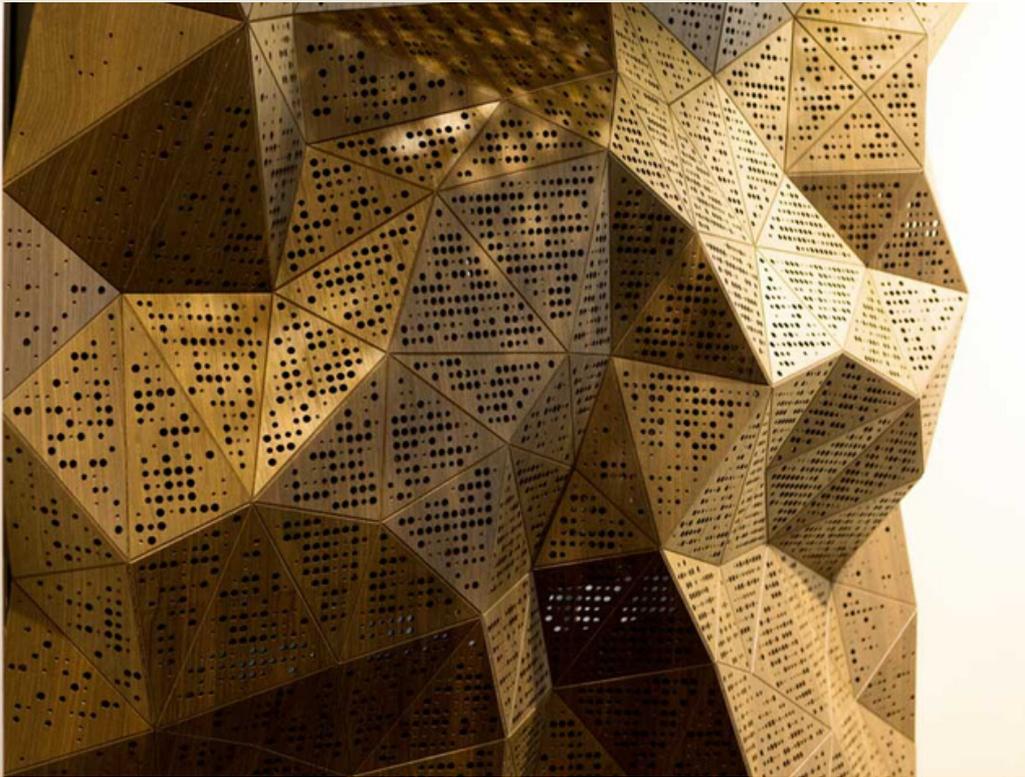
## **TAILOR MADE**

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. For particularly complex projects, our people are on hand to oversee the installation, whether in Italy or abroad.

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



# ACOUSTIC WORK OF ART



## **WOOD-SKIN goes acoustic: a complete solution for unique projects**

WOOD-SKIN Acoustic is the latest innovation in our product line. 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. In combination with the most suitable materials for a given project, WOOD-SKIN offers excellent sound absorption properties while at the same time ensuring optimal acoustic diffusion, thanks to the complex geometry of the surfaces.

And of course, WOOD-SKIN Acoustic offers the same extraordinary flexibility of Mesh Sheets, Fold Panels and Tailor Made: attractive surfaces like wood, laminate and metal, strategically cut and affixed to a membrane that allows rigid materials to behave almost like fabric.

Thanks to the digital nature of WOOD-SKIN, it is possible to add visual interest to our surfaces with customized patterns of different perforation density, creating areas with specific performance criteria. Sound-absorbing materials positioned on the back follow the underlying form organically, creating a controlled system capable of adapting to the demands of any acoustic project.

The result is a product that tells a story with elegance, through a defined and controlled design language, obviating the need for 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, which is increasingly important today.

# CONTACTS

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