



# Radical by Nature

At Mogu, we bring Nature closer to people, meeting the needs of everyday life.

A vision of home, offices, retails and spaces that embraces Nature's radical character and Circular Economy principles.





## 100% circular soul

As a company fully rooted in the principles of Circular Economy, at Mogu we constantly observe the environment, the society we're part of and the related economies, to promptly respond to the needs emerging from such complex and interconnected systems.



# Mycelium technology

Our technology strongly relies on partnering with fungal microorganisms and on employing their vegetative body - the mycelium - as key ingredient to bind and transform different typologies of residual substrates, turning them into functional, high value materials.



# From biotechnology to finishing materials

We produce materials  
by growing selected  
strains of mycelium  
on pre-engineered  
substrates made  
of agro-industrial  
residues.





# our solutions for premium living spaces



Acoustic panels



Flooring



Wall panels

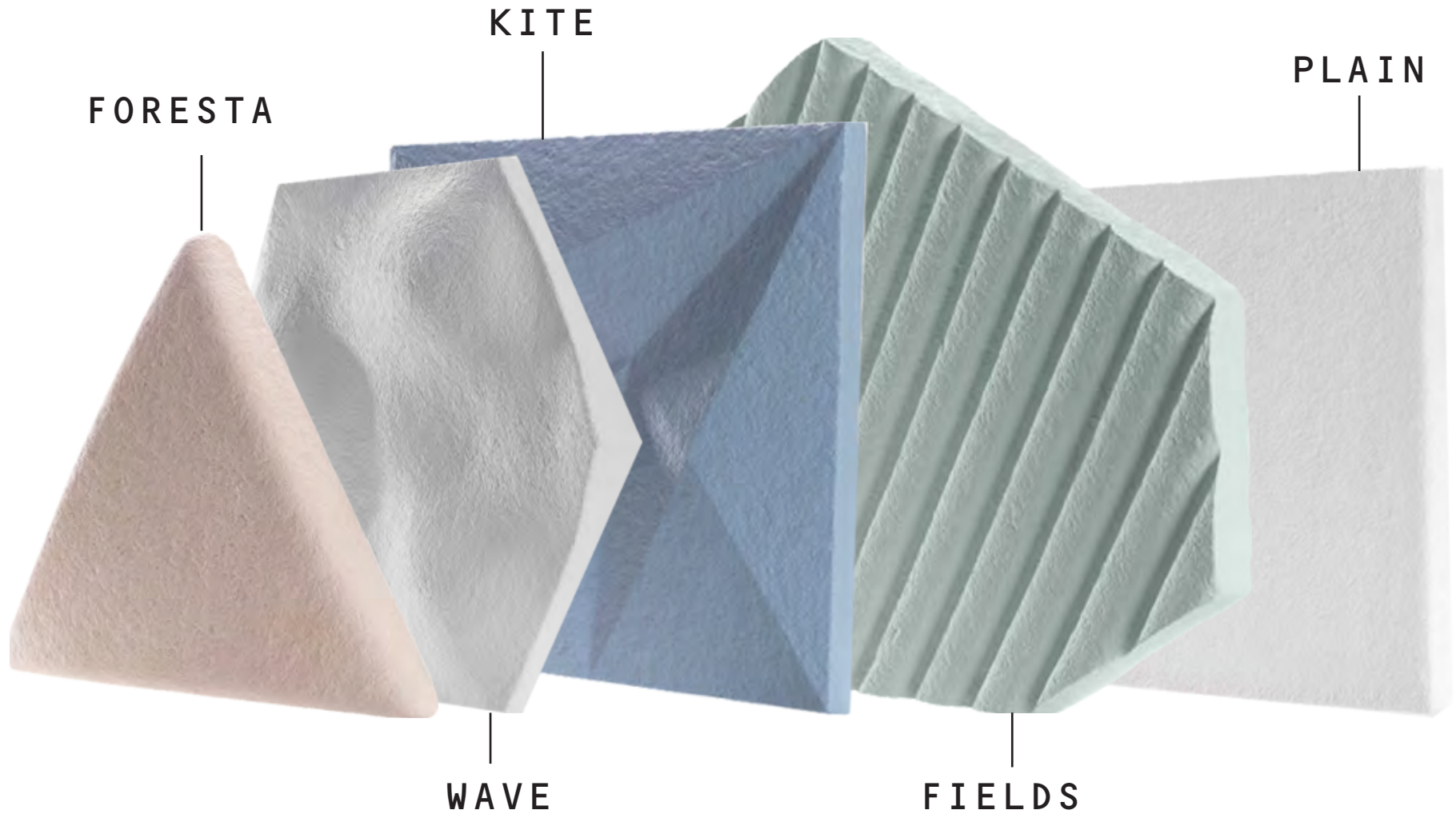
# Acoustic Panels

Mogu Acoustic modules are made from soft, foam-like mycelium materials and are designed as modular elements that can fit into any design style.

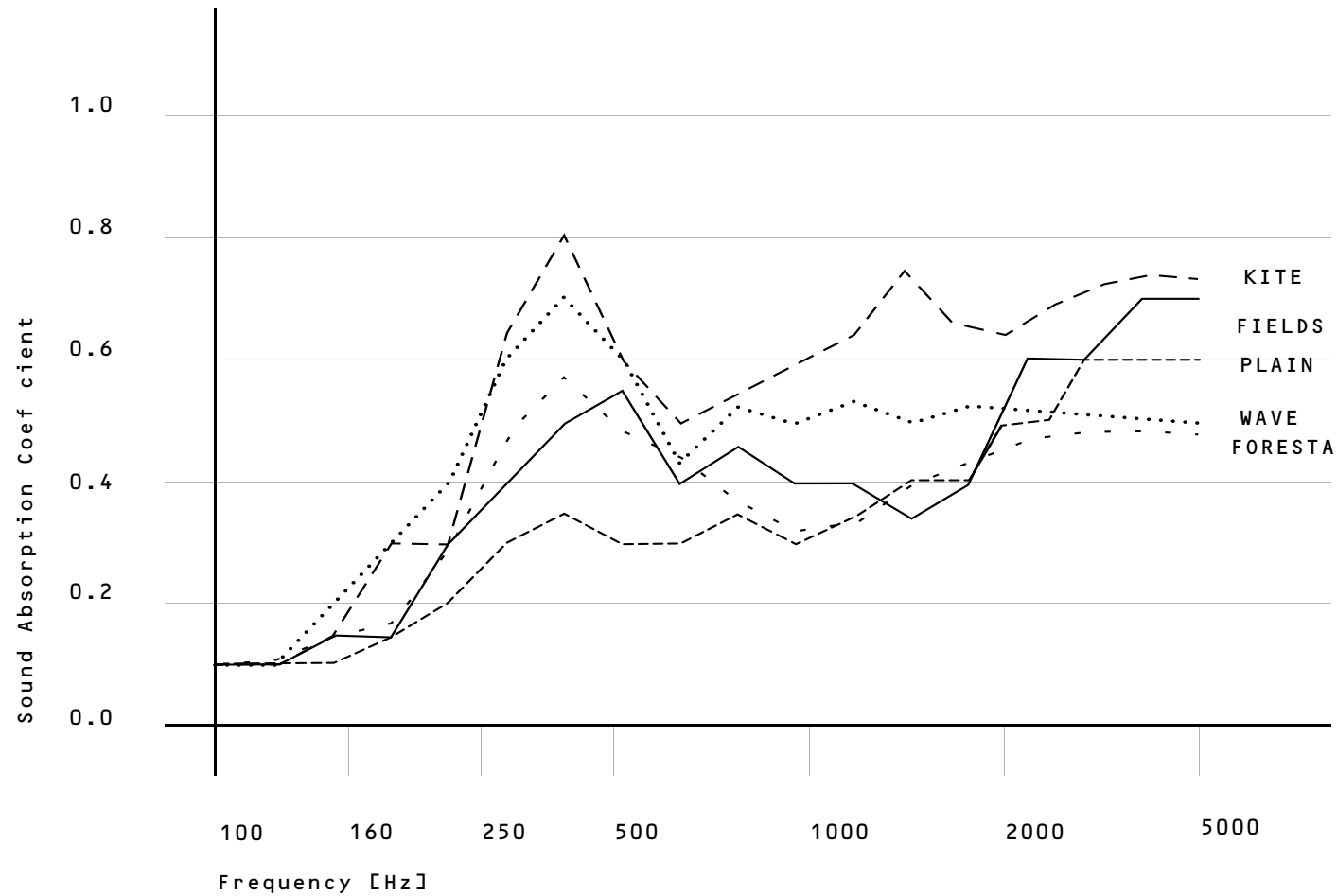




Mogu Acoustic modules are made from soft, foam-like mycelium materials and are designed as modular elements that can fit into any residential style.







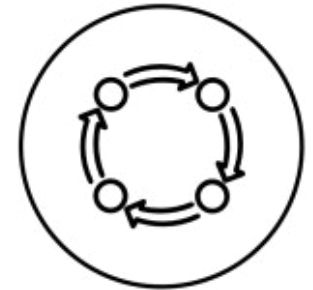
Moisture Proof



Easy to fix



Fire Rating



100% circular



VOC Free

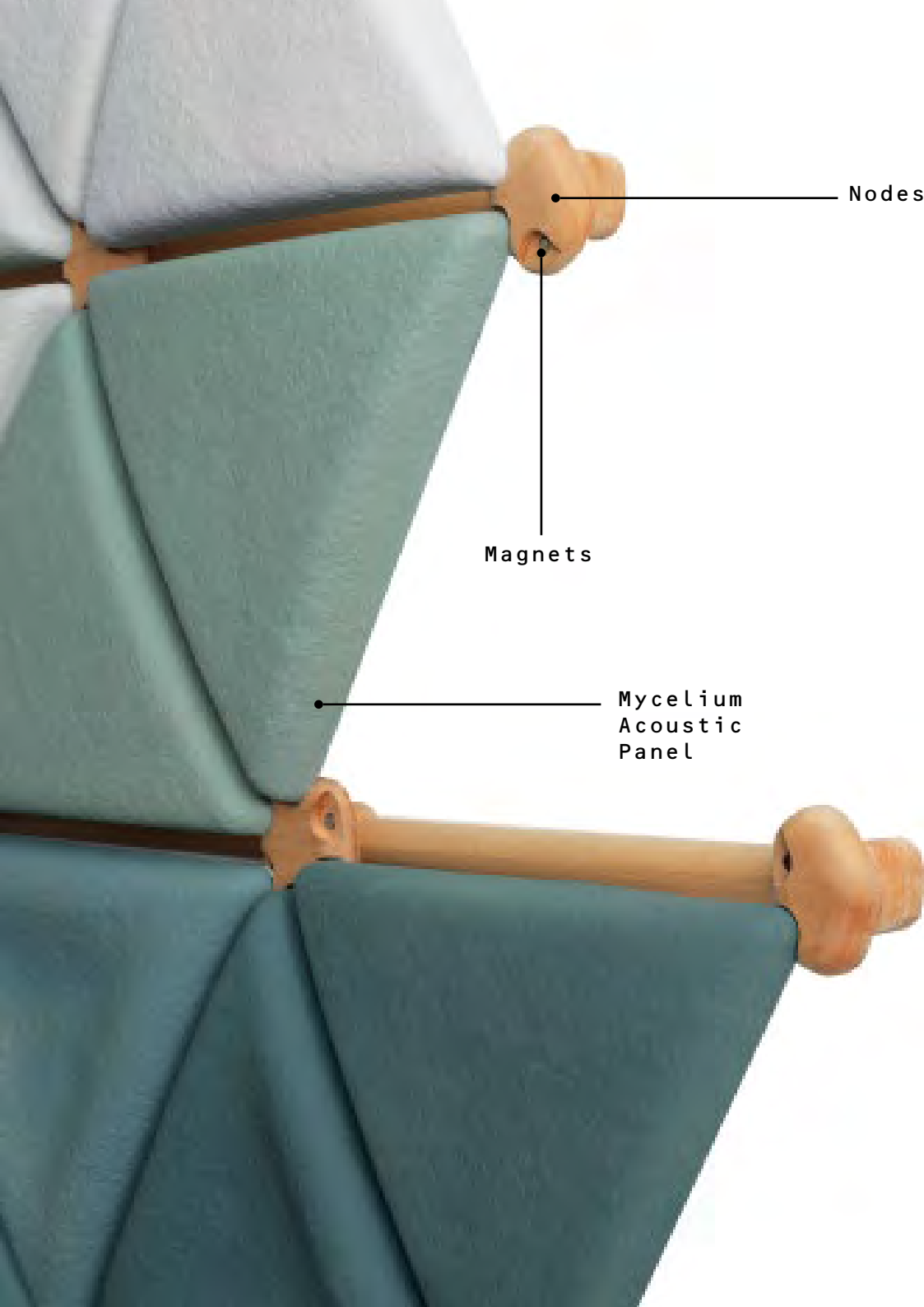
# Introducing FORESTA system

An innovative  
acoustic system  
based on wood and  
mycelium



**mogu**  
RADICAL BY NATURE

**ARUP**



# System Design

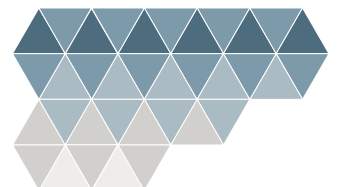
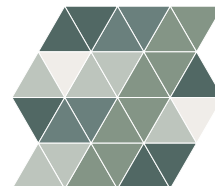
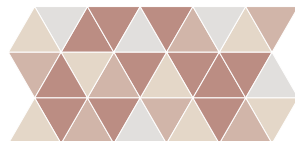
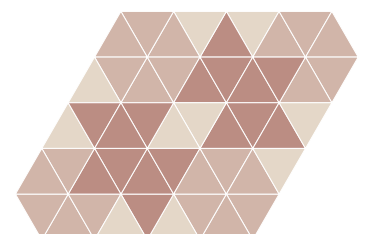
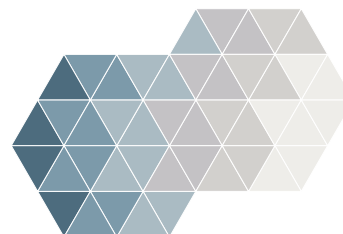
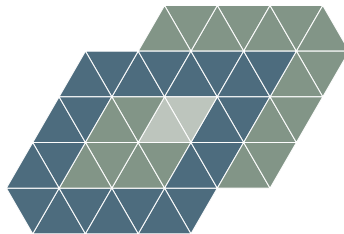
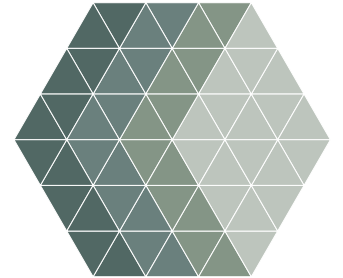
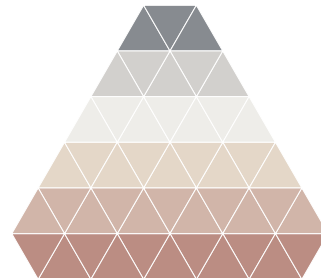
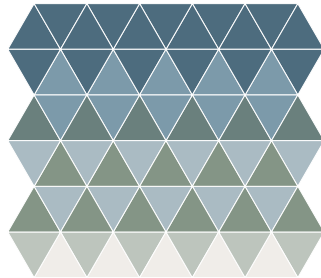
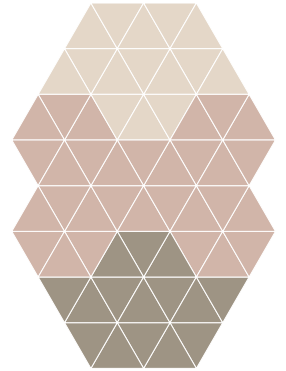
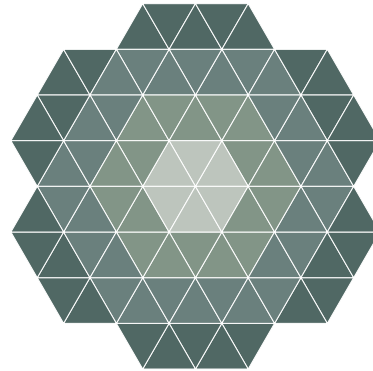
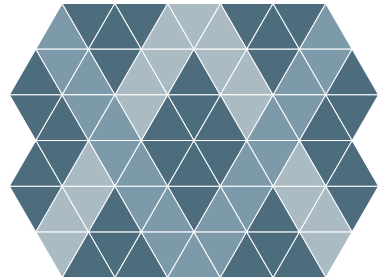
The Foresta System combines the refined aesthetics of wood with the innovative character of mycelium materials.

The wooden components of Foresta are manufactured by means of the latest technologies in wood processing, such as product parametric modeling, robotized production lines and advanced manufacturing.



# Digital & Modular

The Foresta System design valorises the infinite possibilities given by digital fabrication and parametric modelling, to maximize design flexibility at its best!



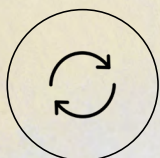
# Introducing PLUMA Panels

PLUMA is a new collection of slim, 100% circular wall covering panels with sound absorbing properties. They are designed to give an innovative and natural look to all spaces.





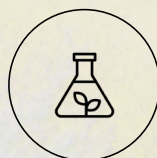
TECHNOLOGY



Recyclable



Mycelium  
Tech

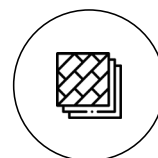


100%  
biobased

AESTHETICS



Decorative

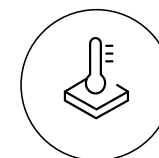


Customizable

PROPERTIES



Soundproof



Thermo  
insulating



VOC Free





# PROPERTIES

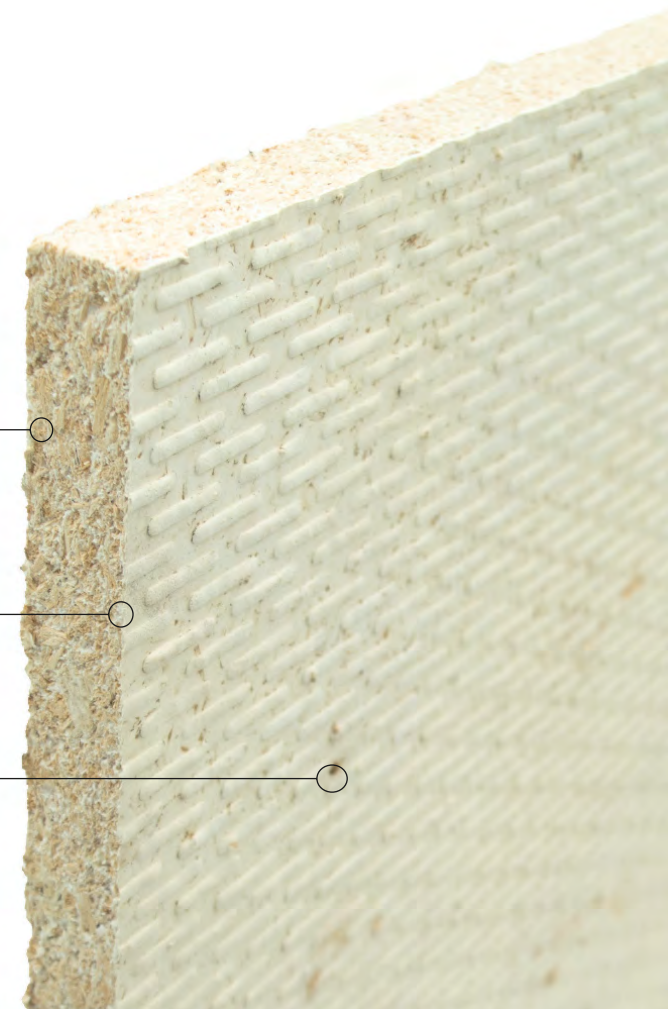
Components	Hemp, cotton and mycelium
Sound Absorption	0.45 NRC*
Density	250 Kg/m3
Moisture sensivity	RH > 70%
VOC Emissions	Indoor Air Comfort GOLD
Thermal Conductivity	0.05 W/mK*
Fixing System	Glue, Magnetic system Velcro system

\*Official certification coming soon

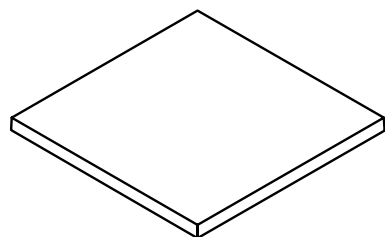
Natural fibers  
(cotton, hemp)

Mycelium Skin

Pressed surface

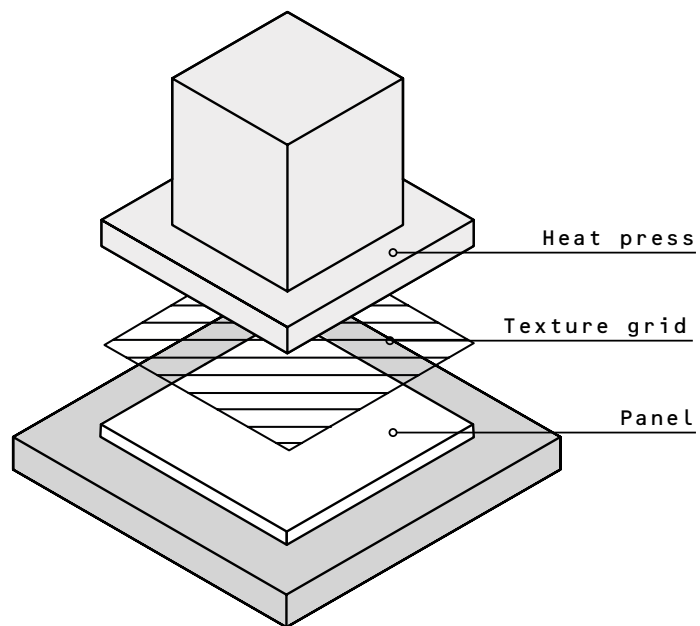


# PRESSING PROCESS



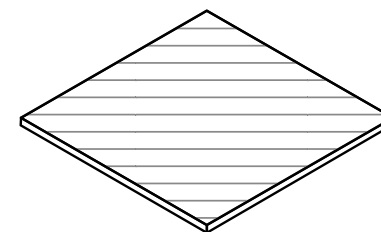
1

MYCELIUM PANEL



2

CUSTOMIZABLE LASER CUT  
GRID PRESSED ON  
MYCELIUM PANEL



3

ACOUSTIC PANEL

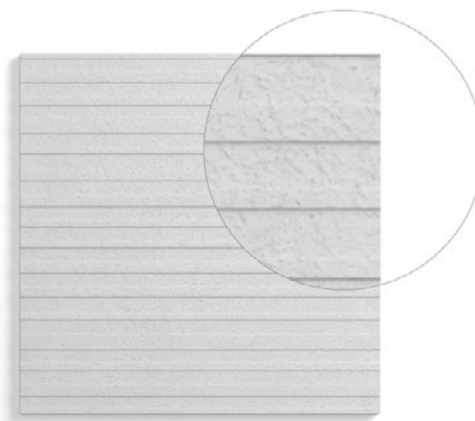
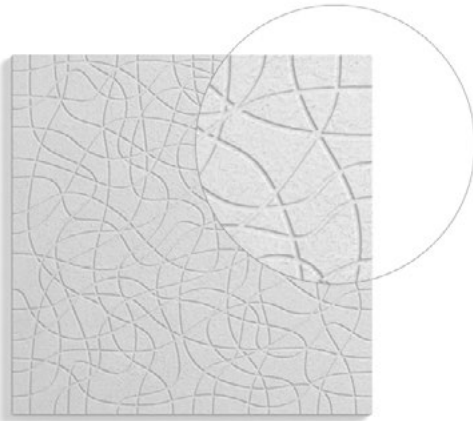


# Unique Design Surfaces

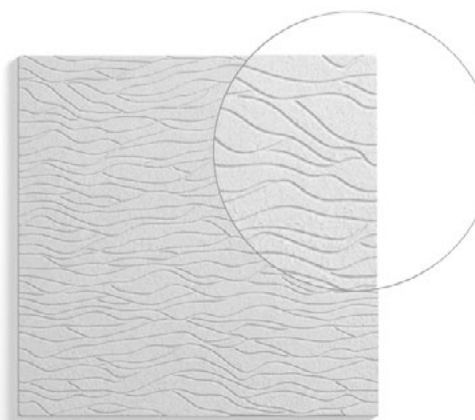
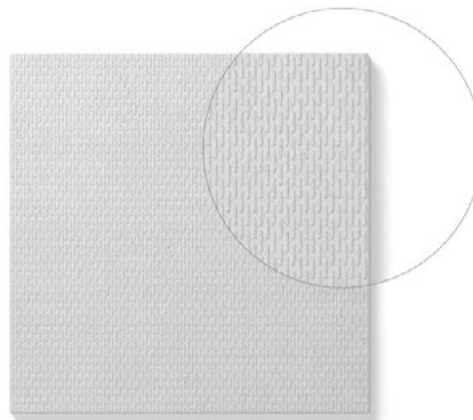


The new PLUMA panels, thanks to their limited thickness and to their modular design, allow for creating infinite solutions and compositions, meeting the needs of any space.

# Unique Design Surfaces



Mogu design team has developed four different textures inspired by the perfect shapes of nature: Reed, Leaves, Needles and Mycelium. Unique creations capable of flexible adaptations, to harmoniously enhance all types of surroundings

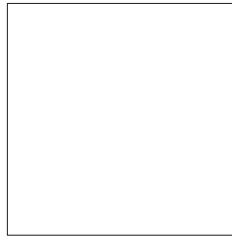


# Dimensions



**SMALL – S**

500 X 500 mm



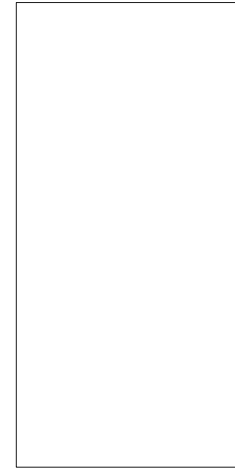
**MEDIUM – M**

600 X 600 mm



**LARGE – L**

500 X 1000 mm



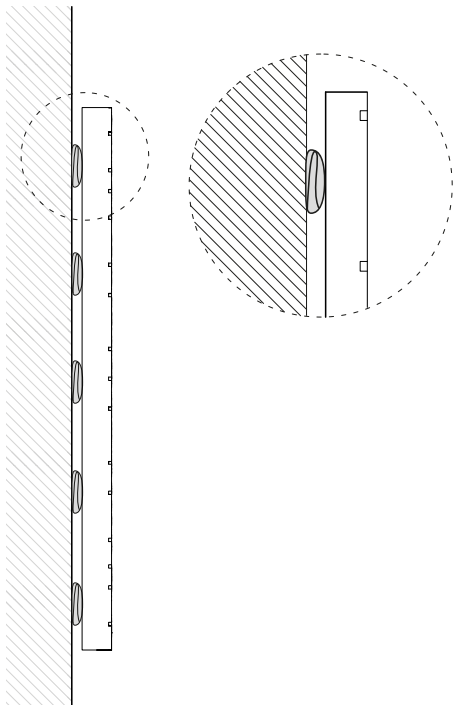
**EXTRA LARGE – XL**

600 X 1200 mm

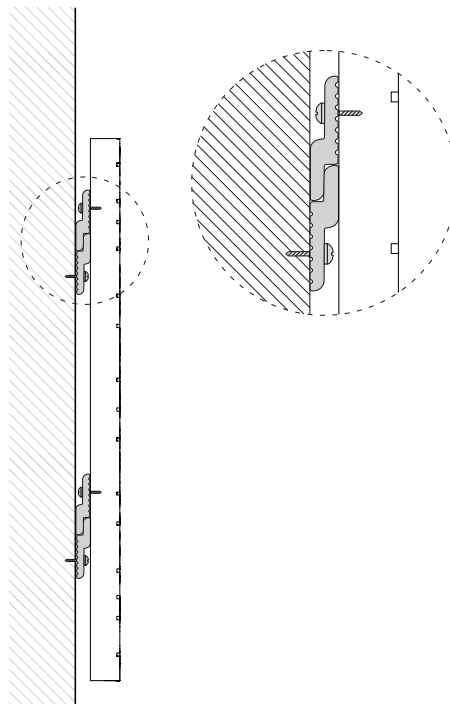


# Installation

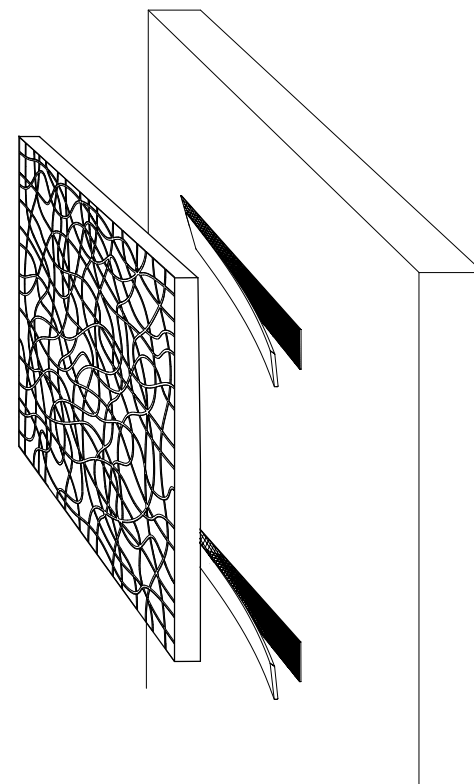
## GLUE FIXING



## SCREW FIXING



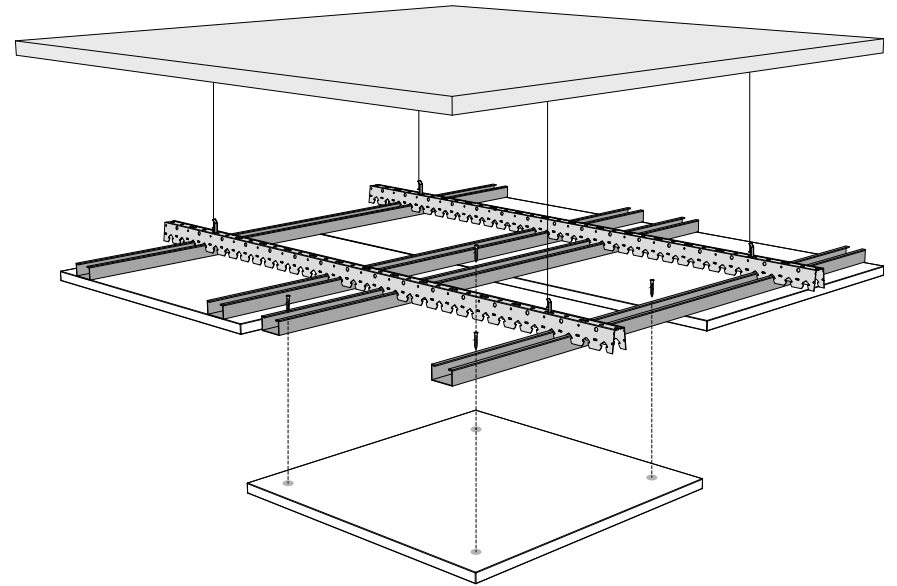
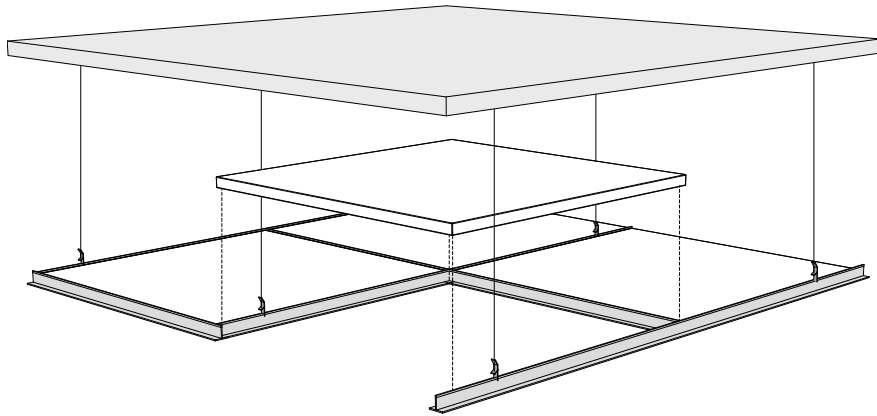
## FASTENING STRAPS FIXING





# Installation

## CEILING FIXING







# Resilient Floor

From agro-industrial residues to luxury living environments, Mogu Floor is a collection of biobased resilient tiles for interior design and architecture. A perfect solution to support a fully circular approach within the building industry.







Topcoat

Biocomposite

67% Bio-based  
Polyurethane

Bio-based 94,7%  
Solvent Free



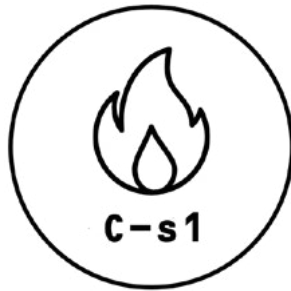
Topcoat

Fleece

67% Bio-based  
Polyurethane

Bio-based 67%  
Solvent Free





Fire Rating



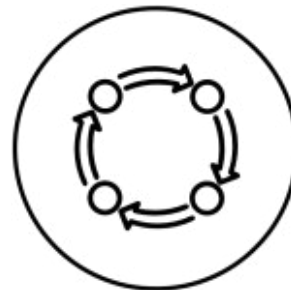
Moisture Proof



Easy to fix



VOC Free



100% circular



Blue Angel  
green certification

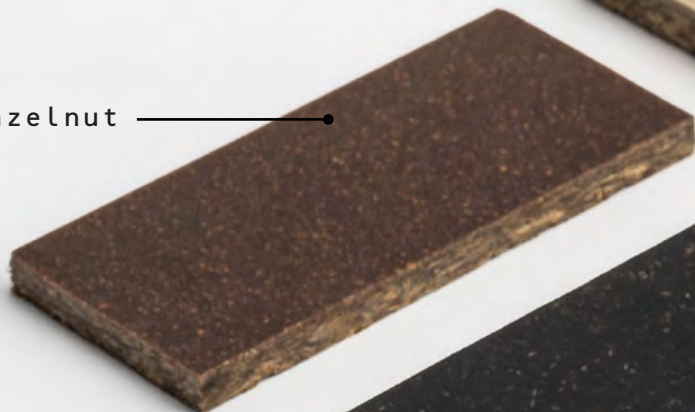
# Mogu Tiles

From agro-industrial residues to luxury living environments, Mogu Floor is a collection of biobased resilient tiles for interior design and architecture. A perfect solution to support a fully circular approach within the building industry.

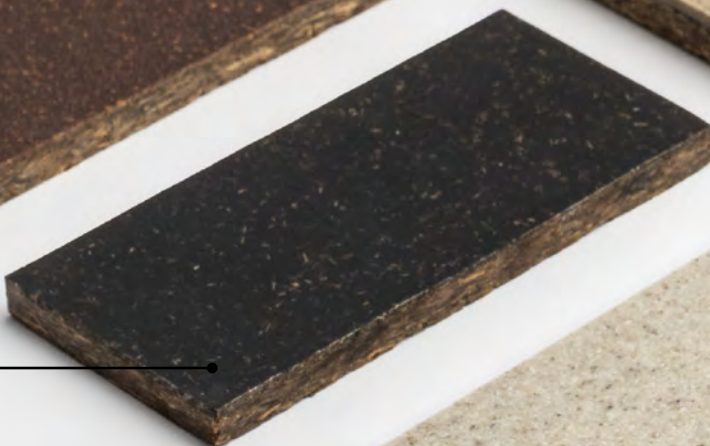




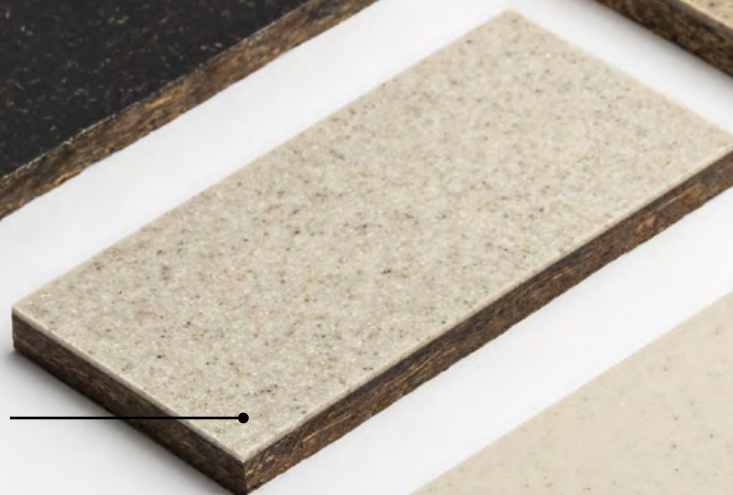
hazelnut



coffee +  
straw



oyster +  
straw



oyster





Product type	Resilient Flooring
Fire Reaction	C-fl
Density	700 kg/m <sup>3</sup>
Installation	glue-based
Residual indentation	0.09 mm
Abrasion resistance	T - type I
Castor chair	No damage
Furniture leg	No change
Slip resistance	$\mu \geq 0.30$ (DS class)
Electrical behaviour	$R > 10^9 \Omega$ ; $\leq 2$ kV
Impact sound insulation	C (<85 dB); 2 dB
Dimensional Stability	-0.15% (no curling)
Moisture resistance	+0.4 mm (23°C; 30-90% RH)
Chemical Resistance*	
UV fastness	7 (no visible change)
VOC Emissions	Gold (including topcoat)

# Mogu Tiles

# Mogu Flex

From agro-industrial  
residues to luxury living  
environments, Mogu Floor Flex  
is a collection of bio-based  
resilient rolls for interior  
design and architecture.



# Mogu Flex

Product type	Floor covering
Fire Reaction	Cfl-s1
Density	1060 kg/m <sup>3</sup>
Installation	glue-based
Residual indentation	0.09 mm
Castor chair	No damage (type W)
Furniture leg	No change
Slip resistance	$\mu \geq 0.30$ (DS class)
Electrical behaviour	$R = 2,2 \times 10^{11} \Omega$ ; -0,4kV
Impact sound insulation	C (<85 dB); 2 dB
Dimensional Stability	-0.15% (no curling)
Thermal resistance	0,02 m <sup>2</sup> K/W
Moisture resistance	+0.4 mm (23°C; 30-90%RH)
Chemical Resistance*	No change (with wear leayer)
UV fastness	7 (no visible change)
VOC Emissions	Gold (including topcoat)



# Office



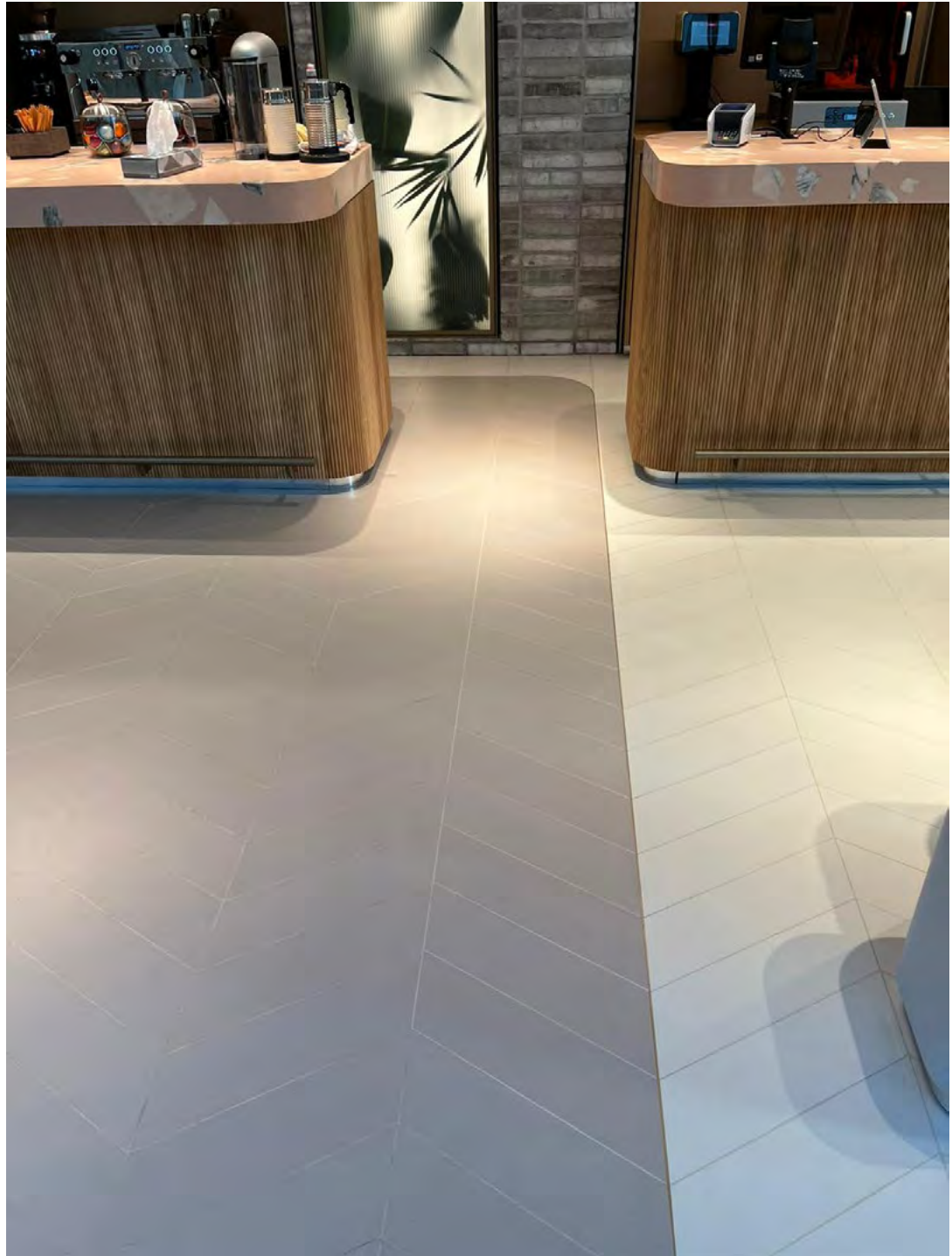








# Retails









# Restaurants

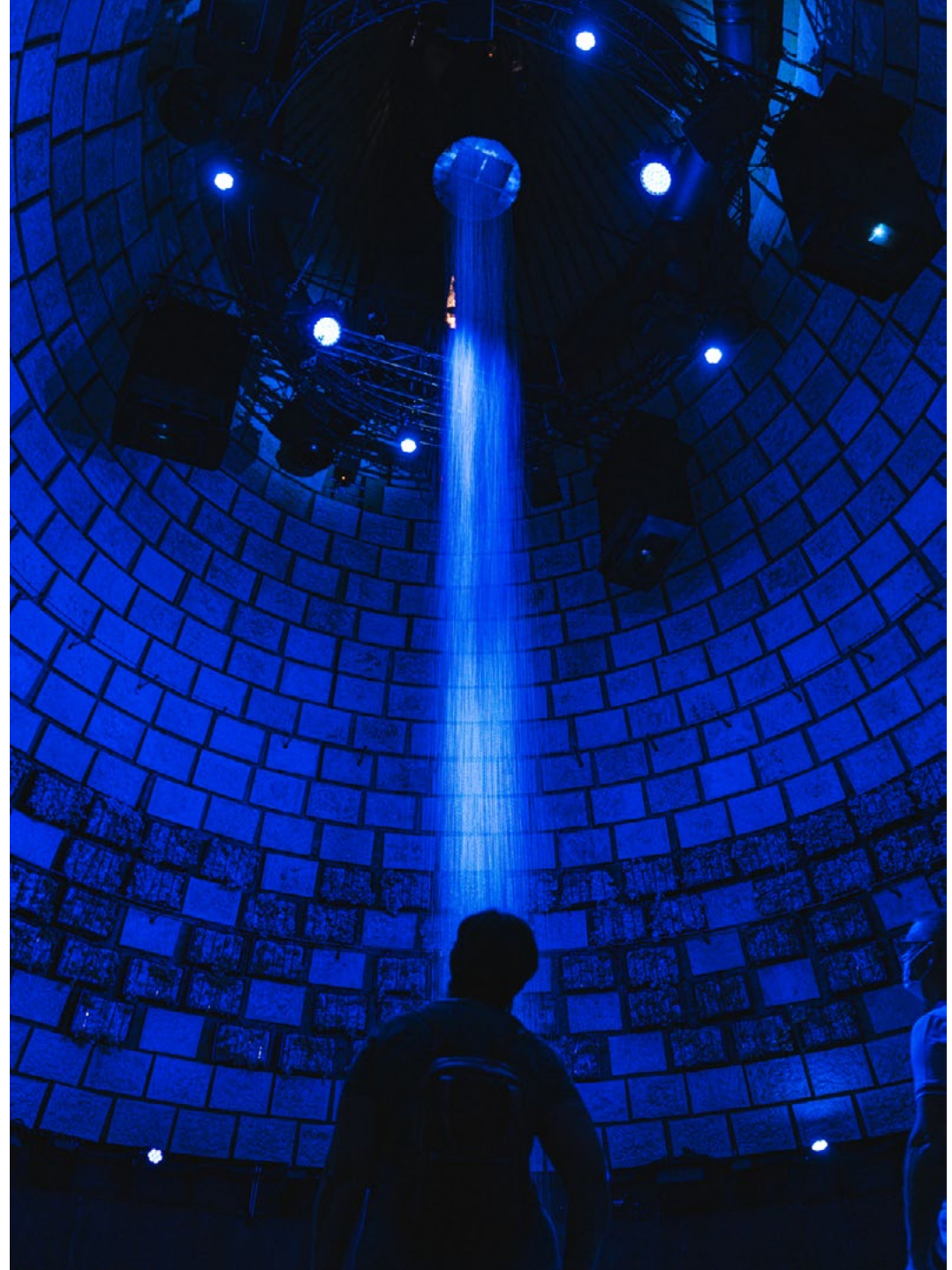








# Exhibitions











## COMPRESSION TECHNOLOGY

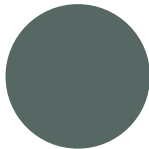
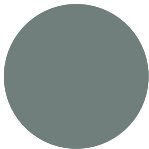
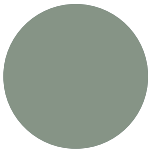
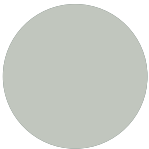
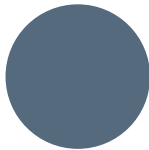
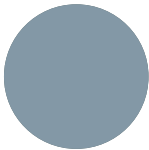
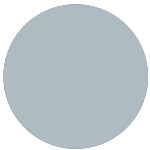
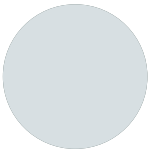
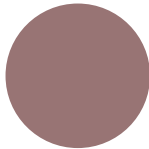
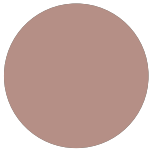
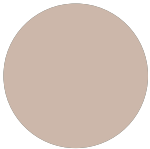
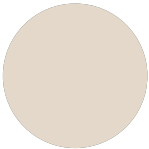

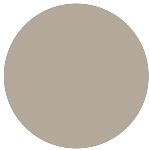
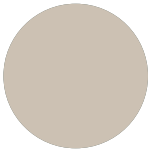
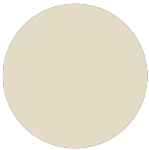
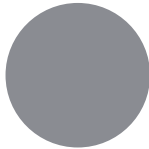
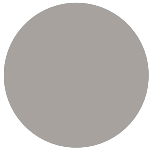
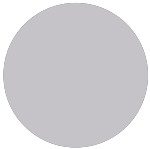
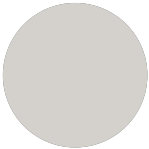

Mogu Floor tiles are produced thanks to heat pressing technology. The formulation has been developed according to continuous pressing standards.

## NATURAL BINDING

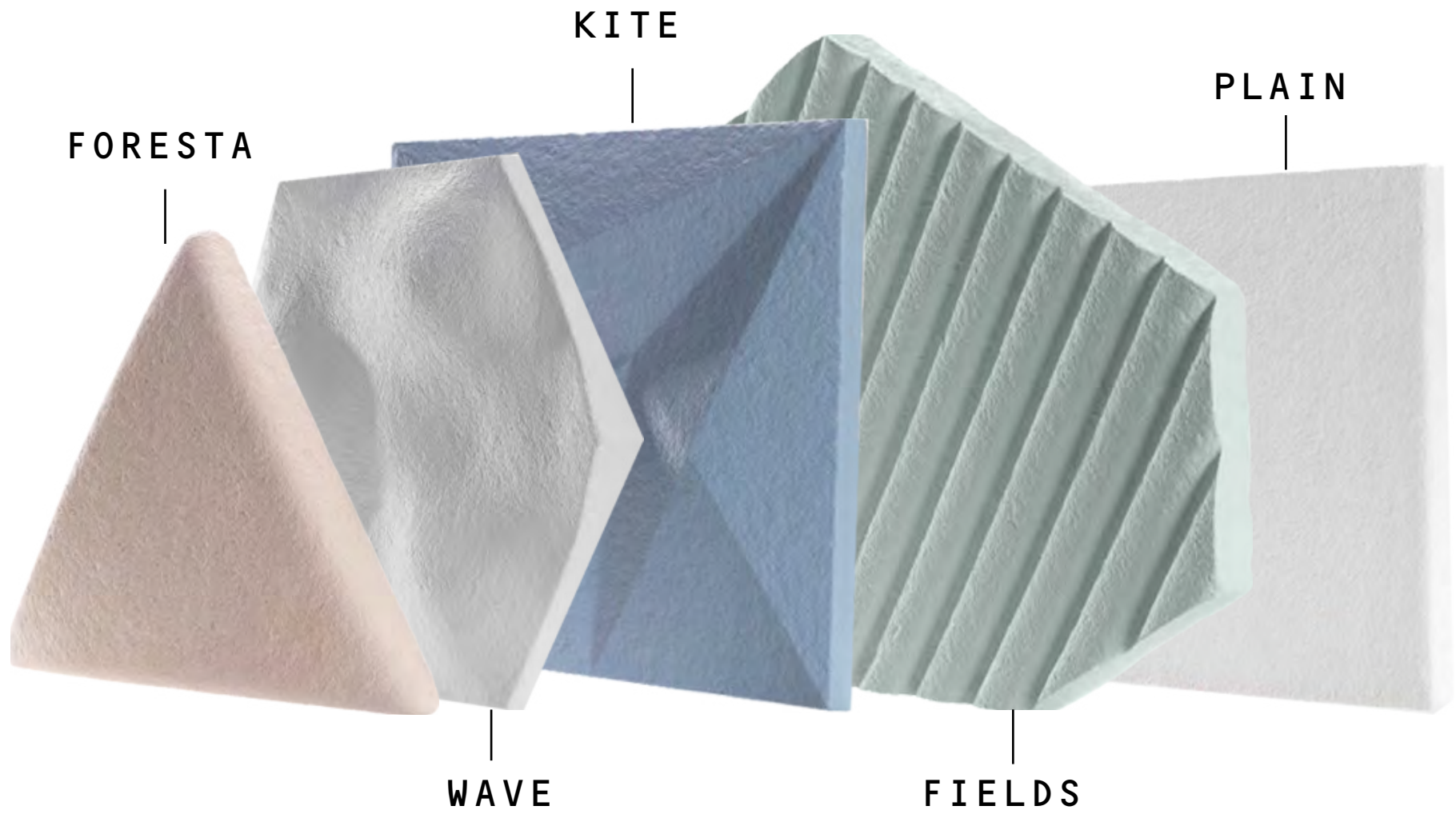
Thanks to mycelium technology, loose fibers are bound together and react with the heat of compression technology. The result is a 100% natural and biodegradable core, with comparable mechanical properties to HDF.





A001		A002		A003		A004			
	Pine		Moss		Fern		Lichen		
A005		A006		A007		A008			
	Falls		Creek		Rain		Drop		
A009		A010		A011		A012			
	Balos		Terracotta		Sand		Silt		
A013		A014		A015		A016			
	Bark		Humus		Mushroom		Mycelium		
A017		A018		A019		A020		A021	
	Slate		Andesite		Fossil		Dolomite		Marble

## PLUMA COLOR PALETTE



# from waste to virtuous chemistry

Mogu FLEX is based on a unique formulation based on 67% renewable resources, free from solvents, plasticizers, heavy metals and with low VOC emissions.





Mogu Floor is also  
available as 2.5 mm  
resilient covering  
(roll or tile form)

polyol	22%
isocyanate from renewable resources	26%
biofiller	50%
other additives	2%

up to  
67% biobased content



IHR SPEZIALIST



**AMINA Products GmbH**

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