mogu
RADICAL BY NATURE

Radical by nature

nature is the greatest engineer.
humans can learn and get inspired.

Mogu mission: to shorten the gap between Humans and Nature in our daily life.

Mogu delivers naturally grown products for novel living experiences, combining the potential of the bio-fabrication using fungi and the radical design.

mycelium

Our technology, fully rooted in Circular Economy principles, 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 & products

from residues to value

Mogu is committed to run its production processes starting from low-value materials, which cannot find any other valuable application in the industry. By feeding on the organic matter, and thanks to Mogu's design and engineering skills, the mycelium converts the low-value input matter into a product with high added value, characterised by unique aesthetics.

but when you are a startup

- Limited Resources
- Uncertainities
- Constant Challenges
- Small Team
- Frequent Changes

Is **not** about ideas.

It’s about making ideas **happen**.

Make **sure** that your **innovative** material:

Works
Is really sustainable
Is economically competitive
Can be produced at scale

Has an application
You deeply understood the needs of your customer
..and the needs of the customer of your customer
You understood how the supply chain works
..and your customer's journey

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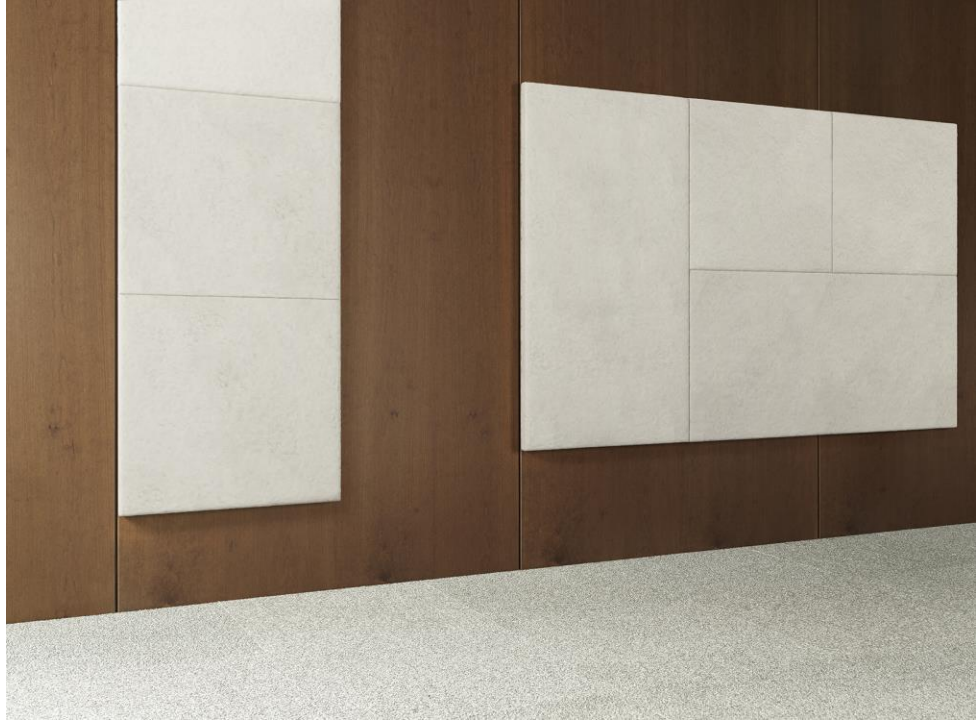
acoustic panels

mogu.bio

wave hex

plain



kite

fields

Feel the unexpected

Thanks to their unique velvety surface, our selected mycelium materials provide unusually intriguing tactile feelings.

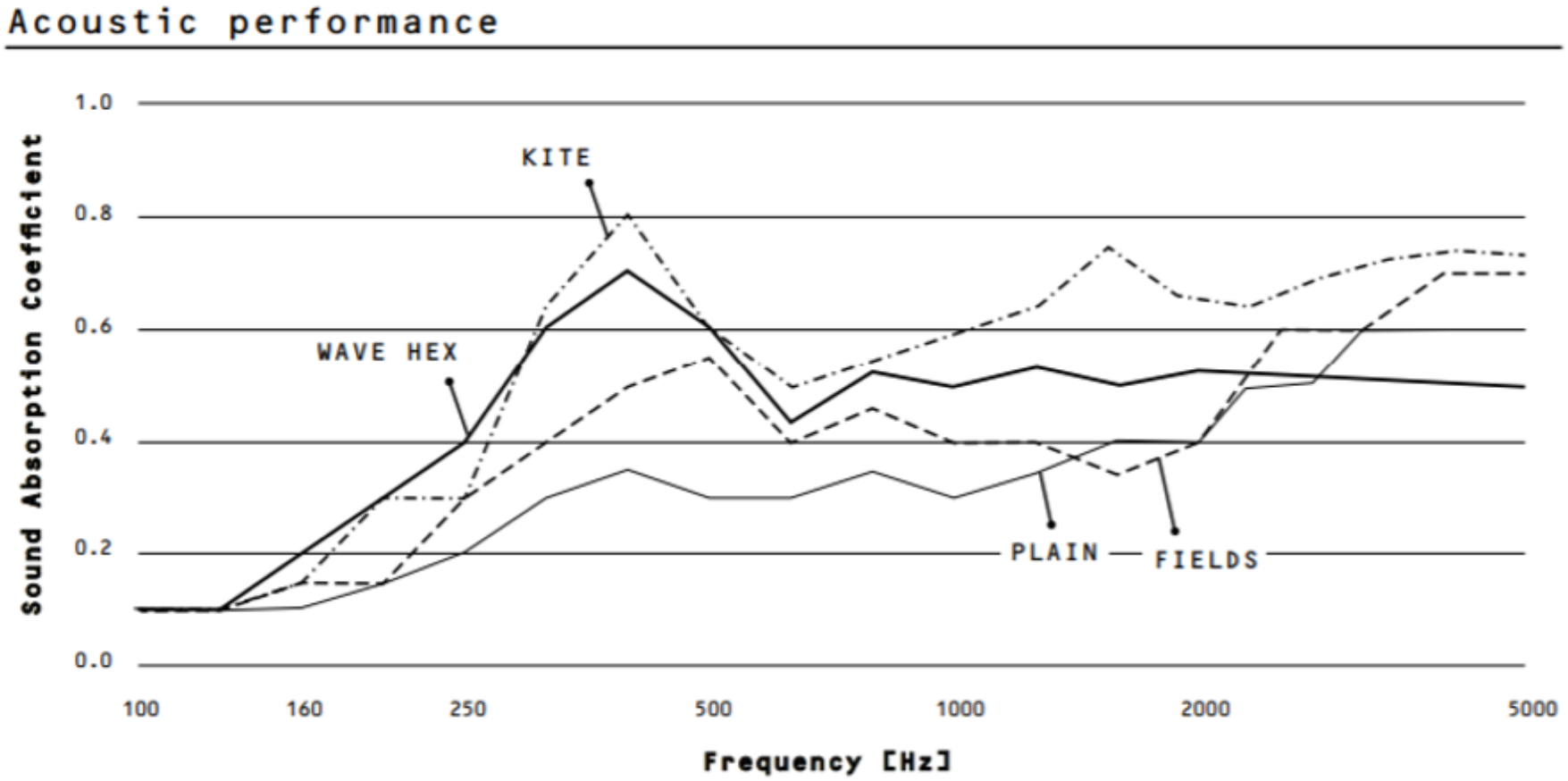
technically sound

Density	180 kg/m3
Flexural Strength	0.05 MPa
Compression Strength UNI EN 826	10.72 kPa
Impact Resistance ISO 4211-4	10-200mm: no damage [5/5]; 400 mm: slight sign [4/5]
Deformation	2.5% before rupture
Fire Reaction UNI EN 13501-1	B-s1-d0
UV resistance UNI EN 15187	Excellent [grey: 5/5; blue scale: >6]
Dimensional variation UNI EN 1604	< 0.4% (40°C; RH=70%) -2.0% (70°C; RH=90%)
Thermal Conductivity UNI EN12664-2	0.050 W/mK (34 mm thickness)
TVOC emission rate (µg/m2h)*	15
VVOC emission rate (µg/m2h)*	none determined
SVOC emission rate (µg/m2h)*	none determined

*Certificated Indoor Air Comfort GOLD by Eurofins (valid for Blue Angel, French Regulation, BREEAM and LEED)

acoustic comfort

in the speech frequencies



Measurements according to ISO 354 – Reverberation Room Measurement Method, with no distance between panels and floor.
A distance of 25 mm can further improve the acoustic performance.

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mogu floor

a SMEi-phase 2 project

SME Instrument
European Commission
Horizon 2020
European Union funding for Research & Innovation

a step into your true nature

MOGU Floor tiles consist of a mycelium composite core, coated with a proprietary formulation of 90% bio-based resins.

The tiles are designed as modular elements with an attractive design and distinctive tactile qualities, making it the most suitable solution for luxury living environments.

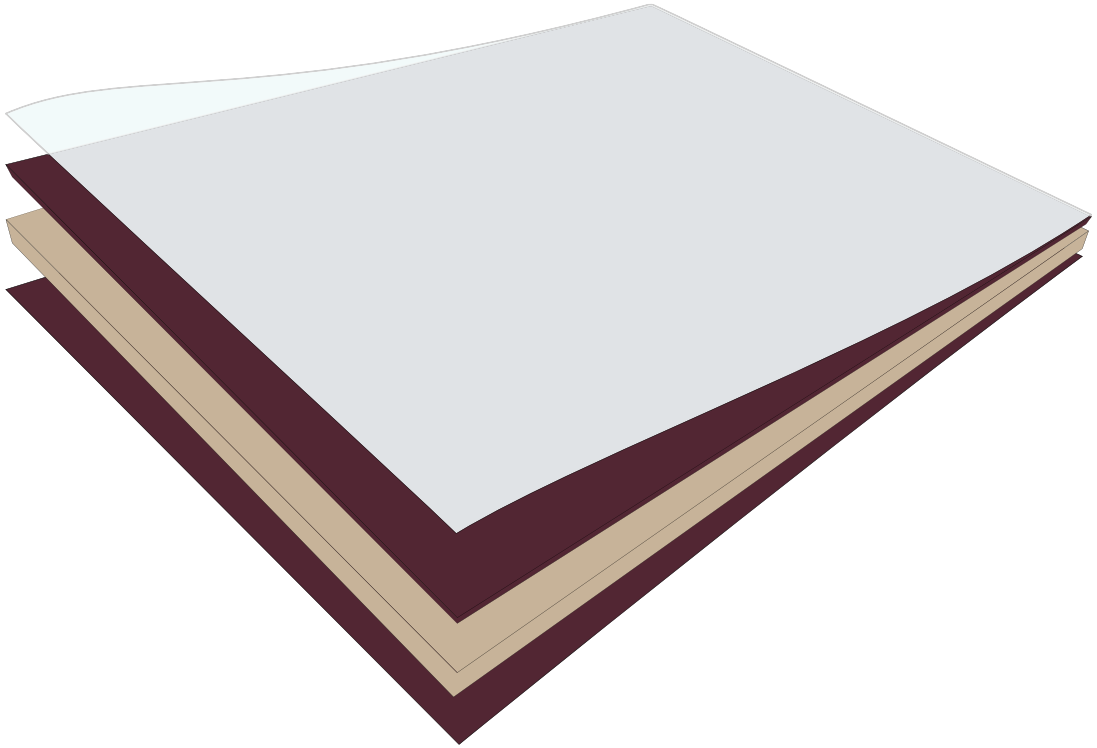
product structure

topcoat

bio-polyurethane

mycelium composite

moisture barrier



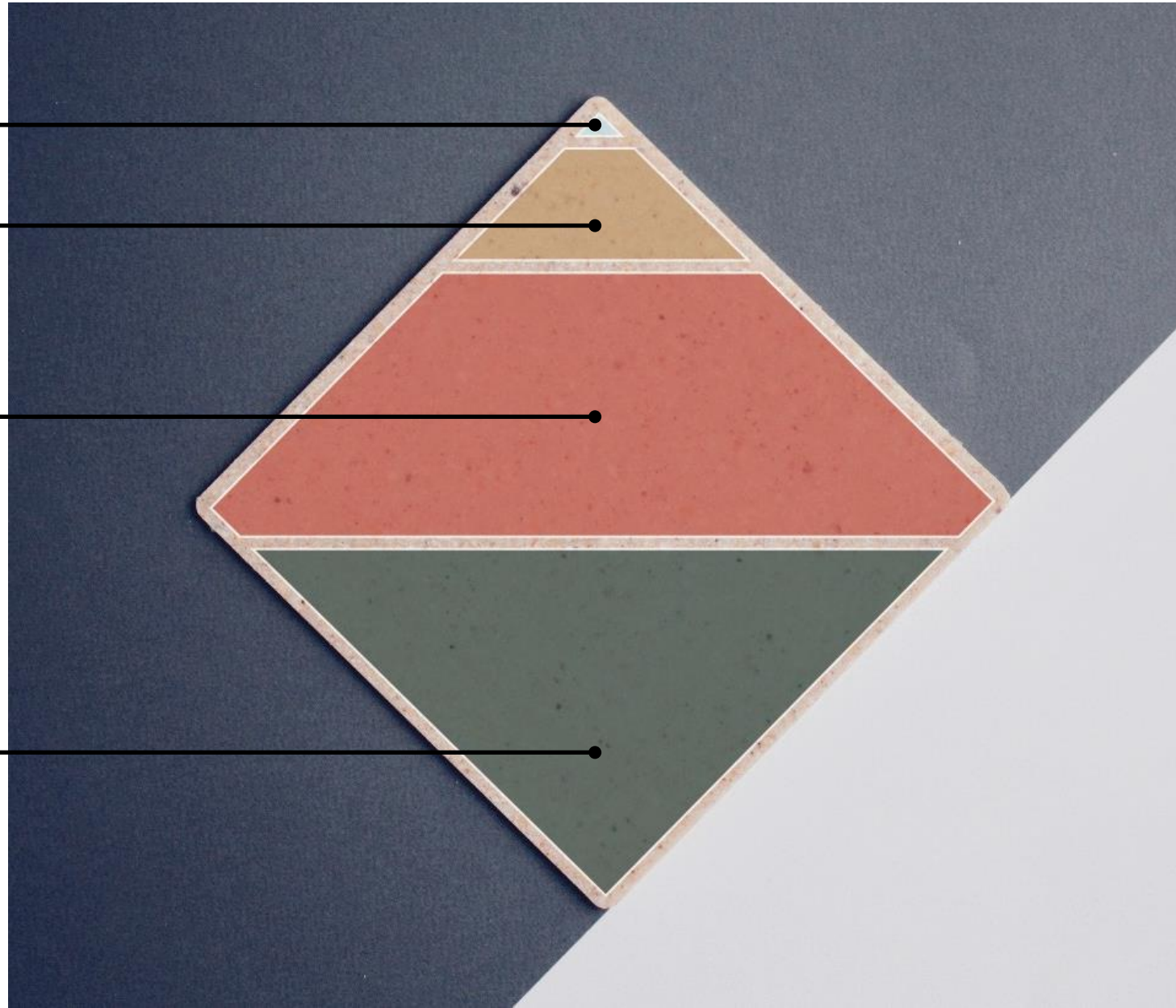
BLUE ANGEL THE GERMAN ECOLABEL

www.blauer-engel.de/uz120

- low emissions
- low pollutant content
- no adverse impact on health in the living environment

bio-PU

reagents	1-2%
biofiller	15-30%
isocyanate from renewable resources	30-35%
polyol	40-50%




oyster
+ straw
algae
+ straw
coffee
+ straw
oyster
oyster
+ cob
hazelnut

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mycelium leather

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growing flexible materials for fashion, automotive & beyond...

sustainable and circular processes

unique touch & feel

two weeks growth process

virtually any size & shape

engineerable

no losses

easily scalable process

cost competitive

vegan friendly

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