



INNOVASIA®
SOUND SOLUTIONS

FLUMA Acoustic Panels



moqu

TerraTrace®
Sustainable Acoustic Design





Nature is the best architect of all. Thanks to its exceptional expertise, its evolutionary skills and amazing capacity for innovation, we could not wish for a better partner than nature itself.

Our acoustic products employ nature's intelligence to tread the path of sustainability, maintaining the right balance between function and aesthetic appeal.





Specify the solution, not the problem.

TerraTrace® is Gardi's first collection of biodegradable and closed-loop interior products.

TerraTrace® qualified products are biodegradable in a municipal landfill or in seawater, or they have a closed upcycle guarantee.

Innovative Acoustics supported with quality products from Fluga compels you to rethink sustainability. The radically innovative mycelium products limit the consumption of natural resources, reduce the amount of waste generated, and increase the use of renewable, recycled and bio-based materials.

Innovative Acoustics in partnership with Fluga offers environmentally friendly and sustainable FLUPA acoustic wall and ceiling panels in nine styles:

1. Area
2. Block
3. Column
4. Fluted
5. Leaves
6. Mycelium
7. Natural
8. Needles
9. Reeds





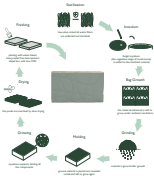


Hemp is a natural fiber that is compostable and can break down into non-toxic components like humus, water, and carbon dioxide under the right composting conditions.

When composted properly, these materials not only reduce landfill waste but also enrich the soil, making them excellent choices for sustainable practices.



THE TECHNOLOGY





FLUPA PANEL PATTERNS

FLUPA is a new collection of nine, 100% circular wall covering panels with sound-absorbing properties. FLUPA panels are the first commercially available products of their kind, entirely made of fungal mycelium and upcycled waste residues. They are designed to maximize the acoustic comfort in many spaces such as restaurants, offices and retail spaces with high reverberation time.



WOOD



SLICE



COFFIN



RUSTIC



MARBLE



MOAIC



NATURAL



MESH



ARCADE



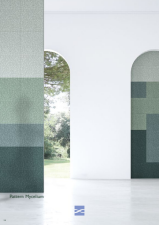




Utilizing industrial organic waste materials such as hemp fibers, our products intend to bring nature closer to people.



The unique syphon technology of PULPFA panels today represents the most sustainable solution dedicated to interior spaces.



Future Quantum





The patterns have been designed to perfectly match, even when the panels are rotated, a feature that makes the new FLUPA panels versatile and dynamic for interior design.



The modular design of the PLATON panels allows for infinite solutions and compositions, meeting the needs of any space.



Pattern Block



The distinctive feature of FLUPIA panels is customization, making them not only a valid alternative to normal wall finishes, but also a design product capable of renovating any type of space without compromising on the technical performance of mycelium.





Patterns Fluted



FLUTRA wall covering panels are designed as an exposed finish in commercial environments, maximizing acoustic comfort in diverse spaces.





Klein Finish

Standard Finish





PLIPSA Kiet - a soft yet remarkably strong finish - is born from the sprouting of natural resins. The Kiet finish is obtained by coating PLIPSA panels with refined powder, rendering a velvety surface to the panels.

Kiet is more than a finish. It is an authentic sensual experience, inviting touch and reshaping how space is felt.

Each panel combines lightness and durability, enhancing aesthetics and comfort, while embodying a radical commitment to circularity and conscious design.



INTRODUCING COLORS



White is the color that has always characterized mytilium products, but we expanded the color palette to 21 colors.

The inspiration for the color palette comes from nature - the fascinating tones of water, forests, earth and sand were naturally the basis to inspire our unique color palette.

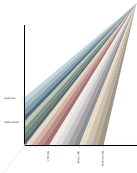
Blues, greens, earth tones and warm/cold neutrals with subtle variations, calm and desaturated hues constitute the palette.

Our colors are designed to support a perfect mix and match among them.

The paint used is a water-based, heavy-metal free biocompatible dispersion with low VOC, with a very low gloss to ensure a matte aesthetic.

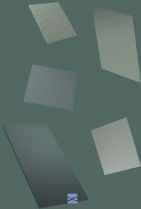


ADDITIONAL COMMENTS



GREEN WOOD PALETTE





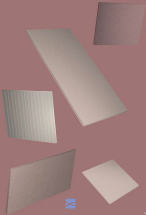
BLUE RIVER PALETTE





PINK CLAY PALETTE





BROWN GROVE PALETTE





GRAY STONE PALETTE







KIWI COLOR PALETTE



KIWI WHITE



KIWI STONE



KIWI CHOCOLATE



KIWI BLAZE



KIWI CHERRYBLAZE



KIWI BLAZE 1



KIWI BLAZE 2



KIWI BLAZE 3



KIWI BLAZE 4



KIWI GREEN



KIWI GREEN 1



KIWI GREEN 2



KIWI GREY



KIWI GREY 1



KIWI GREY 2

KIWI SPECIAL COLORS



KIWI ORANGE



KIWI LIME



KIWI NAVY



KIWI PURPLE





NATURAL ACOUSTICS



A comfortable interior is one that allows people to sit, work, discuss and talk without any hearing difficulty.

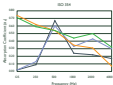
In modern spaces, a common issue that threatens acoustic comfort is the use of reflective materials, such as concrete and gypsum. On these surfaces, sound is usually reflected, causing a high and tedious reverberation (a loud echo).

FLIPPA acoustic panels' multilayer structure feature two main correction mechanisms: sound absorption and diffusion. While the 3D shaped surface breaks up and spreads sound waves, the porous mycelium composite transforms them into micro movements and heat, so be absorbed into the fibrous material.



ACOUSTIC PERFORMANCE

The acoustic performance of FLUPPA panels is influenced by the thickness (20/25/40 mm) of the panels. Through customisation the right compromise between aesthetic and acoustic properties can be achieved while maintaining all of FLUPPA's amazing qualities.



Frequency (Hz)	125	250	500	1000	2000	4000	5000
FLUPPA panel 20 mm	0.69	0.65	0.62	0.58	0.55	0.52	0.48
FLUPPA panel 25 mm	0.60	0.62	0.65	0.65	0.62	0.58	0.58
FLUPPA panel 20 mm with 7 mm foam	0.75	0.68	0.60	0.60	0.55	0.52	0.48
FLUPPA panel 25 mm with 7 mm foam	0.70	0.65	0.62	0.62	0.58	0.55	0.52

Peaks are composed of a 25 mm layer of agglomerated mineral wool with a 25 mm fire-resistant layer. The whole thing is then protected with a thin stainless steel plate.



MYCELIUM PERFORMANCE MATRIX



MYCELIUM TYPE DEFINITION

The ability of mycelium to grow, spread, form, and spread and form itself.



LOW EMISSION

The emissions generated by the material in use, directly and indirectly, contributing to climate or quality.



NATURAL ACQUISITION

The ability to obtain resources from the environment, such as the growth of the mycelium, which further increases resource efficiency.



BIODEGRADABILITY

After use, the mycelium can be degraded or its components processed.

CERTIFICATION



Mycelium



Mycelium



Mycelium



Mycelium



Mycelium



Mycelium



Mycelium



Mycelium



Mycelium Building & Architecture



Mycelium Building & Architecture





PANEL DIMENSIONS

 20 x 20 x 60 mm



Panel - S
100/100 mm



Panel - M
100/100 mm



Panel - L
100/200 mm



Extra Panel - M
100/200 mm



Extra Panel - 100"
100/400 mm

	W (mm)	L (mm)	T (mm)
Panel - S	100	100	60/60/60
Panel - M	100	100	60/60/60
Panel - L	100	200	60/60/60
Extra Panel - M	100	200	60/60/60
Extra Panel - 100"	100	400	60/60

PLURA panels can be customized to suit your needs. This means and we make it happen.

*Feature "PLATED" is not available in KOL.





Environment:

Key Features:

- All systems and techniques are designed to preserve resources and reduce energy consumption while also prevent pollution and negative environmental impact.
- Upcycling of industrial waste materials such as hemp fibers that cannot find other valuable applications in textile production processes.
- Hemp is a natural fiber that naturally stores less non-toxic components like furans, resins, and carbon dioxide under the right composting conditions.
- PLA/PHA packs can be disposed of in the composting process.

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Biodegradable Acoustic Panels