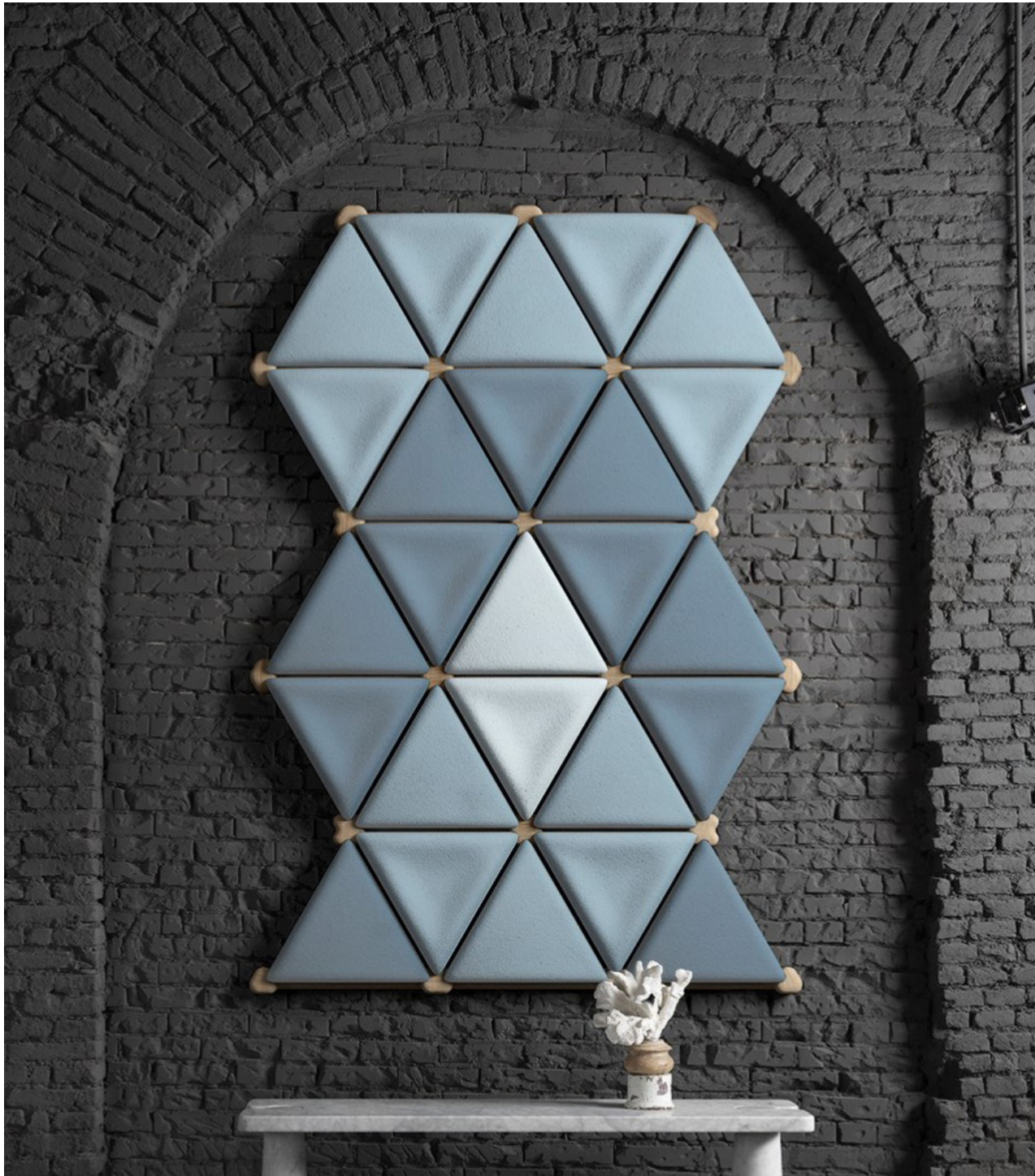


FORESTA SYSTEM



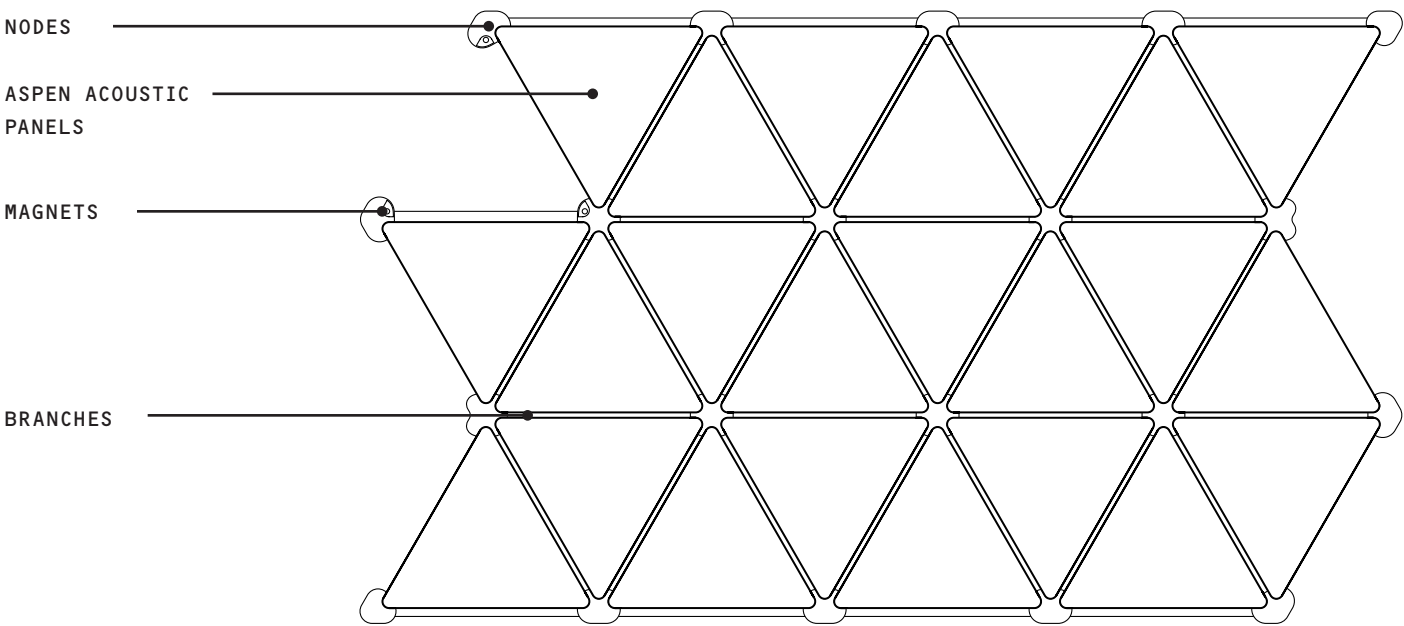
Technical Data Sheet

Technical Data Sheet

About FORESTA

The FORESTA Acoustic system is born from the intention of bringing Nature back into the everyday's spaces we inhabit. Inspired by the unique sensation of walking through the woods, the system combines Nature's vernacular materiality (as exemplified by wood) with the radical innovation deriving from mycelium-based technologies.

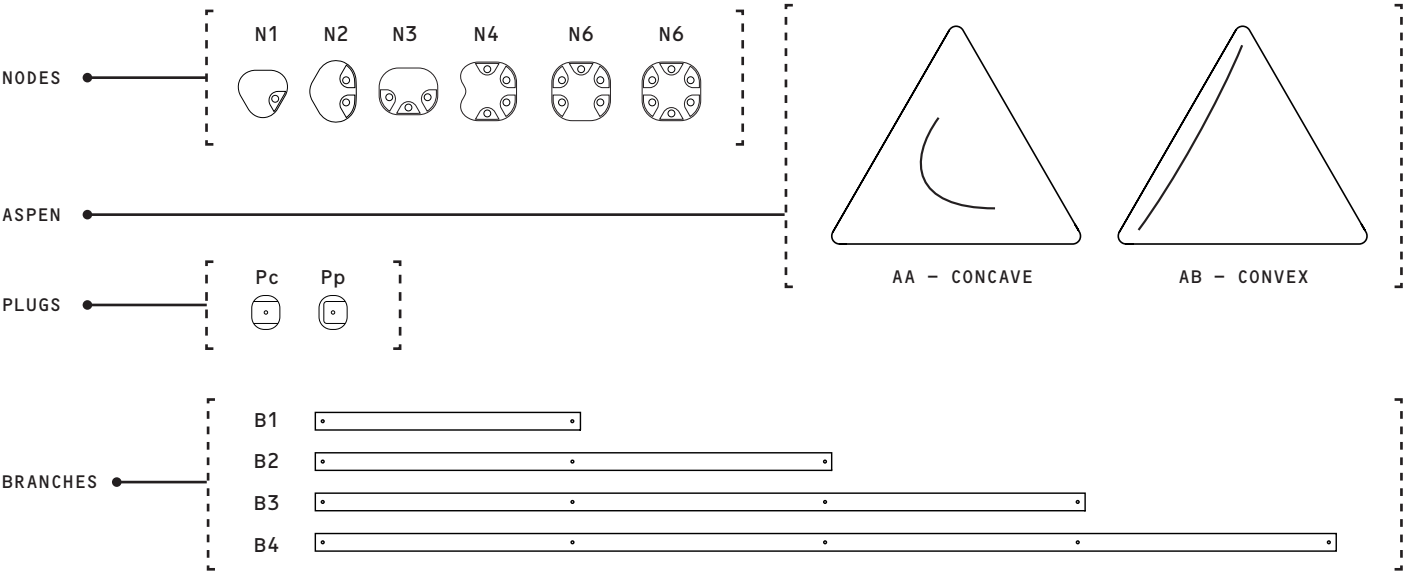
System overview



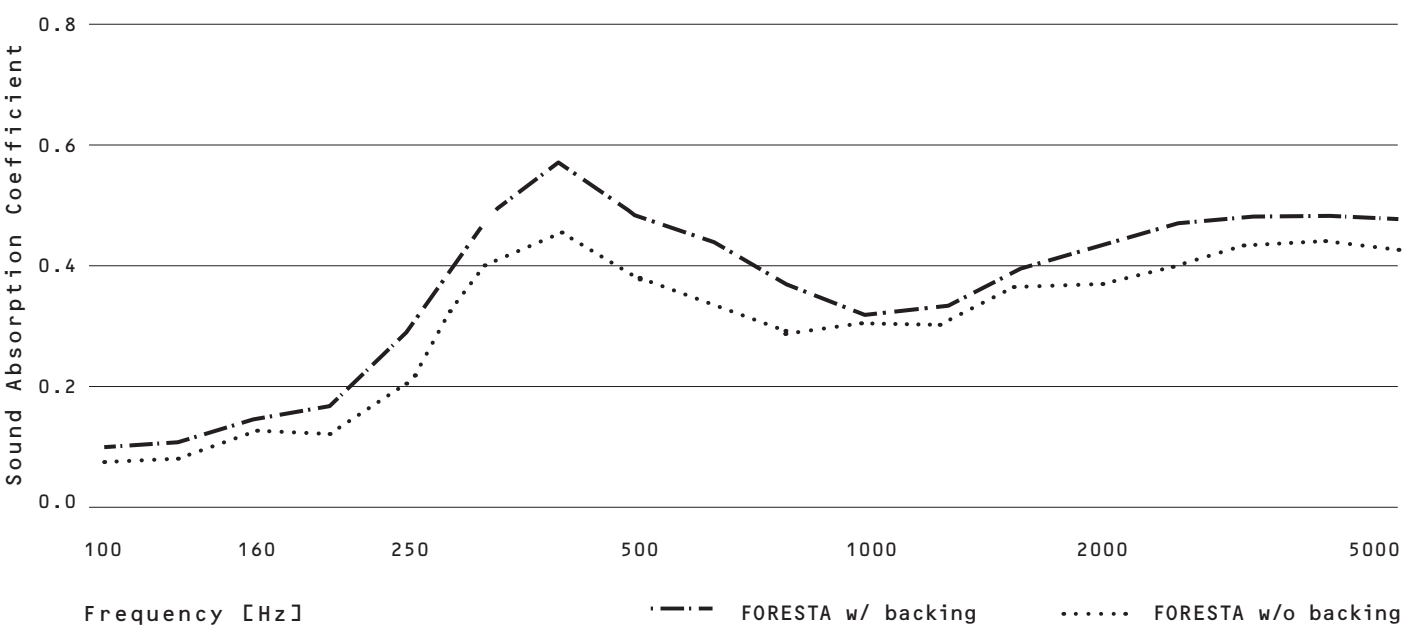
Dimensions & parameters

	w [mm]	h [mm]	t [mm]	side [mm]	sqm	n°/sqm	weight [Kg]
ASPEN CONCAVE / CONVEX	455	398	65	445	0.11	9.1	0.6

SYSTEM PARAMETRICS	1 SQM OF PRODUCT FEATURES:	9 TRIANGLES 11 NODES + 11 BACKS 3.5 mtl BRANCHES
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Acoustic performance



Acoustic characteristics (NRC)

	t [mm]	α [125 Hz]	α [250 Hz]	α [500 Hz]	α [1000 Hz]	α [2000 Hz]	α [4000 Hz]	NRC
FORESTA w/ backing	65	0.11	0.31	0.48	0.34	0.42	0.46	0.39
FORESTA	65	0.10	0.26	0.39	0.30	0.38	0.44	0.33

Measurements taken according to ISO 354 – Reverberation Room Measurement Method. The test setup involved 13.5 sqm of Foresta, with and without backing, with sealed wooden beams covering the full perimeter of the system.

Product composition & materials properties

Materials	wooden components (nodes, backs, rails): magnets: Aspen panels:	FSC-certified beech timber neodime discs porous fiberboard composite materials, made of textile residue and non-pathogenic mycelium
Finishing	Fire-retardant treatment: Decorative paint:	Water-based intumescent paint
Properties (*)	Fire Reaction Density Impact Resistance Thermal conductivity UV resistance VOC Emissions Formaldehyde Dimensional stability to moisture	EN 13501-1 B-s2-d0 100 kg/m3 ISO 4211-4 10-200 mm: 5/5 (no damage); 400 mm: 4/5 (slight sign) EN 12664-2 0.05 W/mK EN 15187 Excellent [grey 5/5; blue >6 Indoor Air Comfort (**) TVOC=15 µg/m2h Indoor Air Comfort (**) E0 class EN 1604 < 0.4% (40°C; RH=70%)
* properties tested by independent certification institutes on mycelium panels. Fire reaction tests for the full system will be conducted in Autumn 2021.		

Mogu was founded on the belief that it is possible to employ Nature's intelligence to radically disrupt the design of everyday products, seeking a finer balance between the man-made and the rhythms of the natural ecosystem.

Mogu products are obtained by growing mycelium, the vegetative part of mushrooms, on organic fibres (low-value residues from agro-industrial value chains).

The products are the result of many years of continuous and iterative R&D on mycelium technology, guided by a strong product-driven approach.

