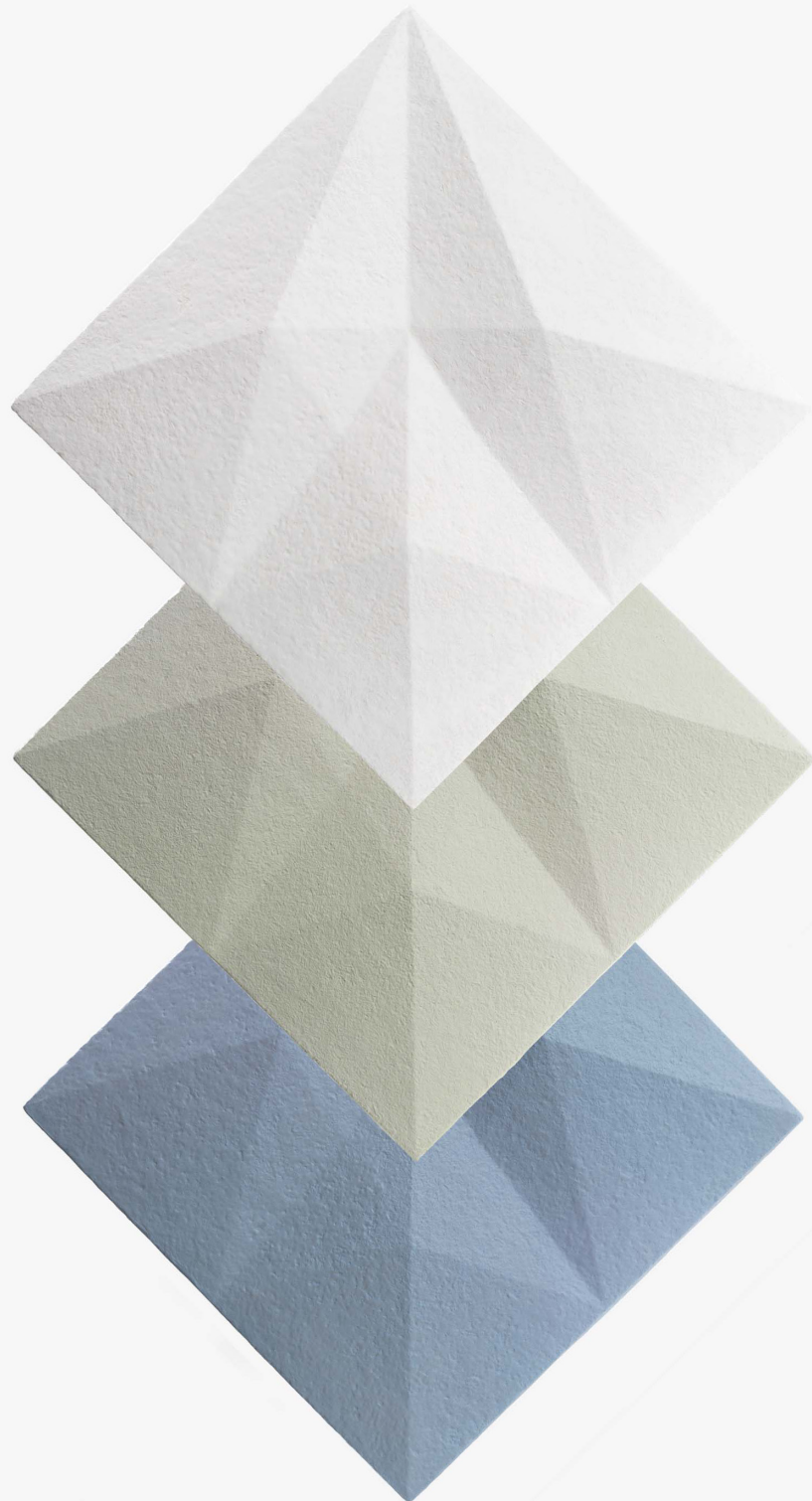




Acoustic



Material Data Sheet

Material Data Sheet

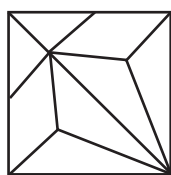
Acoustic mycelium-based products

Mogu Acoustic collection marks an unprecedented revolution for interior design comfort. Mogu Acoustic are the first commercially available products of their kind, entirely made of fungal mycelium and of upcycled textile residues. Thanks to the unique technology, Mogu Acoustic panels represent today the most sustainable solution dedicated to acoustic comfort.

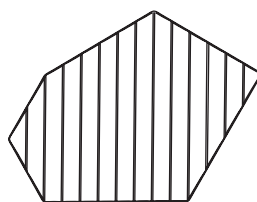
Models



WAVE



KITE



FIELDS



ASPEN / FORESTA



PLAIN - 50



PLAIN - 60



PLAIN - 6040

Dimensions & weight

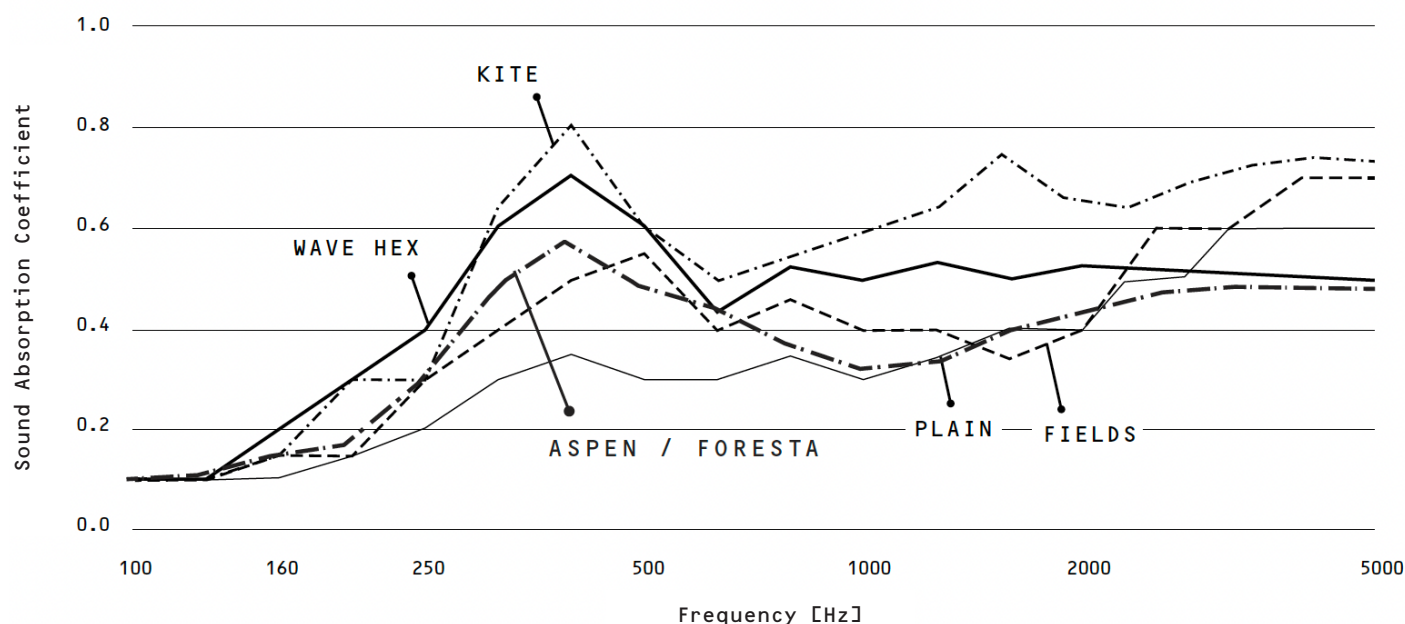
	w* [mm]	h* [mm]	t* [mm]	side* [mm]	sqm	n°/sqm	weight [Kg]
WAVE	560	485	25-75	280	0.2	5	1.1
KITE	500	500	35-75	500	0.25	4	1.5
FIELDS	760	535	45	210	0.25	4	1.5
PLAIN 50	500	500	40	500	0.25	4	1.2
PLAIN 60	600	600	40	600	0.36	2.78	1.4
PLAIN 6040	600	400	40	600	0.24	4.17	1.2
ASPEN / FORESTA	455	398	65	455	0.11	11	0.6

* Mogu Acoustic panels may present slight dimensional variations as they are subject to the tolerances of the natural production process that characterise and enhance Mogu's products. However Mogu carries out a very strict dimensional control to ensure a dimensional variation of maximum +/- 4 mm.

Reaction to fire & standards

	Fire-proof	Only color	Natural
Classification	B-s2-d0	C-s2-d0	D-s2-d0
Finishing	water-based, eco-friendly, non-halogenated, heavy-metals free	water-based 2K paint, low VOC	none
Texture	compact and tough, available in any NCS color	compact and slightly soft, available in any NCS color	white with small tone variations, velvety and soft
Moisture sensitivity	RH > 50% (small tone variations may appear on surface)	RH > 80%	RH > 80%

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
WAVE HEX	25-75	0.1	0.4	0.6	0.5	0.5	0.5	0.53
KITE	40-75	0.15	0.3	0.6	0.6	0.6	0.6	0.53
FIELDS	45	0.1	0.3	0.5	0.4	0.4	0.6	0.40
PLAIN	40	0.1	0.3	0.5	0.4	0.4	0.4	0.40
ASPEN / FORESTA	65	0.11	0.31	0.48	0.34	0.42	0.46	0.39

Measurements according to ISO 354 - Reverberation Room Measurement Method, with no distance between panels and floor. Aspen panels were measured with Foresta system setup, involving 13.5 sqm, with and without backing, with sealed wooden beams covering the full perimeter of the system. For specific info, please consult Foresta Technical Datasheet.

Physical appearance & performance

Product type	Wall / ceiling panels for interior design	Fire Reaction UNI EN 13501-2	B-s2-d0
Color	Any NCS color from Mogu Acoustic palette or custom color	UV resistance UNI EN 15187	Excellent [grey: 5/5; blue scale: >6]
Odor	none with finishing; medium smell with natural touch	Dimensional variation UNI EN 1604	< 0.4% (40°C; RH=70%) -2.0% (70°C; RH=90%)
Density	100 kg/m ³	Thermal Conductivity UNI EN12664-2	0.045 W/mK (34 mm thickness)
Flexural Strength	0.05 MPa	TVOC emission rate (µg/m ³)*	15
Compression Strength UNI EN 826	10.72 kPa	VVOC emission rate (µg/m ² h)*	none determined
Impact Resistance ISO 4211-4	10-200mm: no damage [5/5]; 400 mm: slight sign [4/5]	SVOC emission rate (µg/m ² h)*	none determined
Deformation	2.5% before rupture		

* Results for VOC emissions based on 28-days chamber testing. Official results according to Indoor Air Comfort test by Eurofins.

Material Data Sheet



Light Reflectance Value (LRV)

Light Reflectance Value (LRV) measures the percentage of visible light reflected by a surface (such as walls, floors, ceilings, or furniture) at all wavelengths and angles when illuminated by a light source. The LRV scale ranges from 0 to 100, with 0 representing an entirely black (completely absorbing) surface, and 100 indicating a perfectly white (completely reflective) surface.



A001

PINE
LRV:13



A002

MOSS
LRV:20



A003

FERN
LRV:27



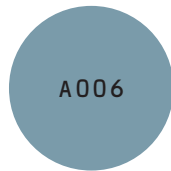
A004

LICHEN
LRV:51



A005

FALLS
LRV:15



A006

CREEK
LRV:30



A007

RAIN
LRV:47



A008

DROP
LRV:69



A009

BALOS
LRV:20



A010

TERRACOTTA
LRV:29



A011

SAND
LRV:48



A012

SILT
LRV:67



A013

BARK
LRV:29



A014

HUMUS
LRV:39



A015

MUSHROOM
LRV:52



A016

MYCELIUM
LRV:68



A017

SLATE
LRV:26



A018

ANDESITE
LRV:35



A019

FOSSIL
LRV:52



A020

DOLOMITE
LRV:62



A021

MARBE
LRV:82