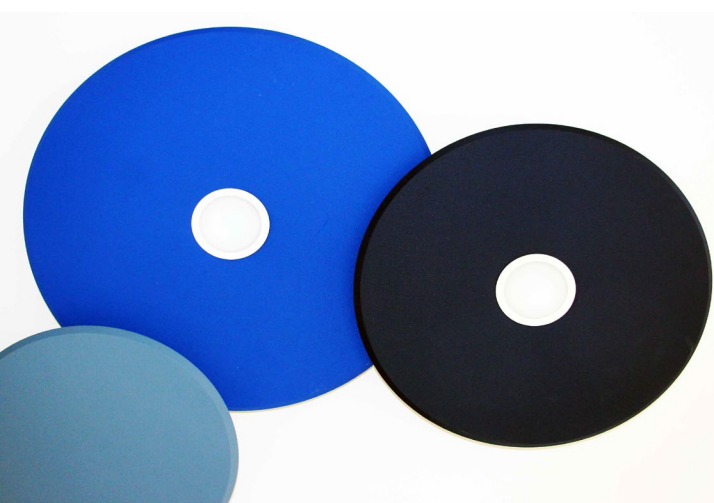
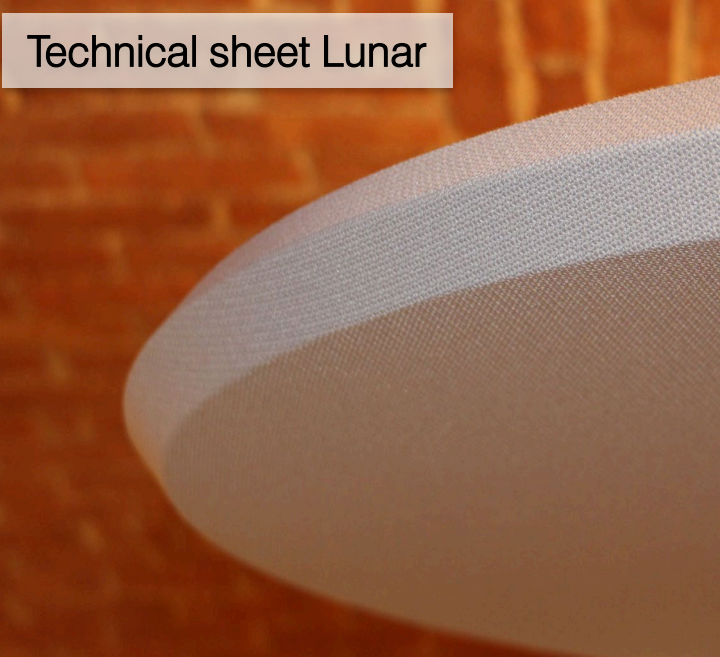




The **Lunar sound-absorbing panel** by Acoustic Lab is a design panel conceived to increase acoustic comfort in the office, restaurant and public spaces in general, which require a reduction in reverberation. **Lunar panels** are characterized by a V-edge or flat edge and a particularly minimalist design. **The Lunar sound-absorbing panel** is made with ecological and recyclable polyester fiber, an internal aluminum frame and upholstery in different categories of fireproof bielastic stretch fabrics (Trevira CS®, Ecopolyester, Ecopolyester Mélange or 75% wool). In addition, Lunar acoustic panels can be equipped with round or square LED lamps.

Description

Internal structure in aluminum. Internal material in polyester fiber of 50 kg / m³ with variable density (fireproof class Bs2-d0), developed to increase absorption at medium-low frequencies.

Standard panel thickness: 40-42 mm.

Coatings in fireproof fabrics, available in a wide variety of colors and patterns: fabric Trevira CS®, 100% polyester (Class 1 - B-s1, d0); Ecopolyester, 100% polyester recycled (Class 1); Ecopolyester Mélange, 100% polyester recycled (Class 1); wool fabric 75% - polyamida 25% (Class 1 IM).



TYPES OF EDGE



Flat edge

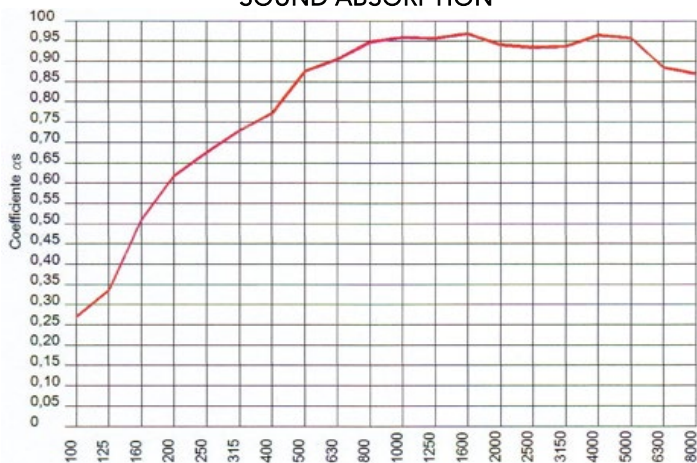


V - Edge

Circular sound-absorbing panel dimensions

Lunar (aluminium): Ø80 - Ø100 - Ø120 - Ø140 cm.

SOUND ABSORPTION



Acoustic performance

Sound absorption in class "A" according to the reference standards:

- UNI EN ISO 354:2003 Acoustics - Measurement of sound absorption in the reverberation room.
- UNI EN ISO 11654:1998 Acoustics - Acoustic absorbers for construction - Evaluation of sound absorption.

Polyester fiber certifications

Thickness:	40 mm - Tolerance: ± 2 mm
Density:	50 Kg / m ³ - Tolerance: ± 2 %
Operating temperature:	from -50 °C to 120°C - It maintains its characteristics unaltered up to the temperature of 125°C
Workability:	High deformability and workability even after several deformation cycles
Thermal insulation:	Equivalent thermal conductivity up to $\lambda=0,034$ W/mK
Soundproofing:	Sound absorption coefficient at 500 Hz until $\alpha = 1,00$
Composition:	100% Polyester fiber - Components: Polyester (PET) - Not a dangerous substance within the meaning of D.M. 12/02/93
General characteristics:	Resistant to chemical agents (acids, salts, hydrocarbons), fungi, bacteria and microorganisms; unfading, odourless; surface with anti-pilling treatment.
Test certificates:	CSE RF 2/75/A (UNI 8457) → Reaction to fire ISO 354 → Sound Absorption
Reaction to fire:	Flammability : Class 1 (UNO) (according to UNI 9177) - It does not emit opaque or toxic fumes (ANFOR F1 16-101)

Fabric features Ecopolyester



Technical specifications

Test description	Standard	Unit of measure	Values and tolerances
Composition	Directives CE	%	100% PL FR RECYCLED
Length and height		m.	55 ± 5% / 1,40 ± 2%
Weight	UNI EN 12127	gr./m ² -gr./m ^l	340 ± 10% / 470 ± 10%
Abrasion resistance - Martindale 12 KPA	UNI EN ISO 12947	Cicli	50.000 ± 20%
Pilling - Martindale Method	ISO 12945-2	degree	1-5 / 4/5 ± 1/2
Color fastness to dry / wet rubbing	EN ISO 105X12	degree	1-5 / 4 ± 1
Fastness to artificial light	EN ISO 105 B02 Blue scale	degree	1-8 / 6 ± 1
Maintenance	Use the smooth spout vacuum cleaner regularly, without brushing		
Maintenance symbology	UNI 8423		

Acoustic and sound absorption Certifications

Measurement of the sound absorption coefficient UNI EN ISO 354:2003

Class 1 Sipari, Draperies, Curtains

Class 1 IM - Test report

BS 5852 Crib N°5 using a CM Foam 35 Kg/cu.m.

B1 DIN 4102

EN 1021 Part 1-2 using a CM Foam 35 Kg/cu.m.





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STANDARD 100
072156.0 CENTROCOOT
Testato per sostanze nocive.
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tessuto riciclabile
recyclable fabric

					
462	53	366	367	532	999
					
463	66	386	377	519	643
					
425	133	379	378	533	629
					
464	120	380	331	534	625
					
426	180	263	332	119	636
					
443	231	175	334	572	607
					
496	236	234	333	569	573
					
411	173	262	343	571	651

Ecopolyester

Class I (Italy)
Class I IM
EN 1021 Part. I-2



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tessuto riciclato
recycled fabric



tessuto riciclabile
recyclable fabric



2509



2051



2451



2999



2612



2503



2104



2452



2358



2602



2504



2103



2459



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2603



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2201



2402



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2604



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2206



2251



2301



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2552



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2151



2309



2307



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2203



2252



2303



2651

Ecopolyester Mélange

Class I (Italy)
Class I IM
EN 1021 Part. 1-2



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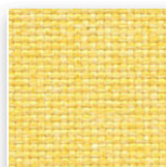
OEKO-TEX®
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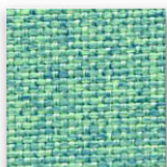
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recycled fabric



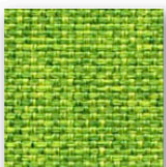
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4055



4465



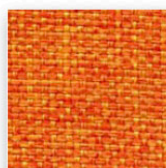
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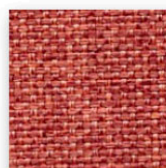
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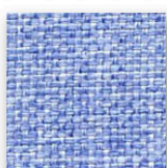
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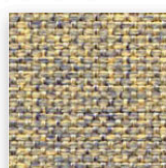
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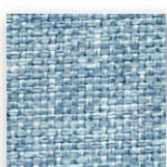
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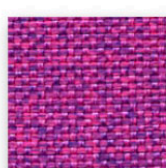
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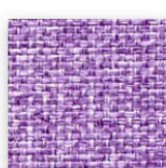
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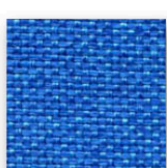
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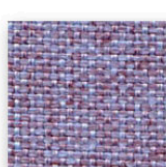
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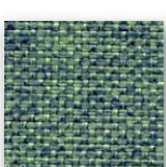
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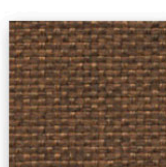
4363



4313



4461



4562



4616

Fabric 75% Wool -
25% Polyamide

Class I IM (Italy)
EN 1021 Part 1-2



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tessuto riciclabile
recyclable fabric



505



51



52



455



351



502



57



451



454



301



503



102



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358



504



101



251



601



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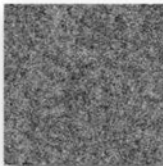
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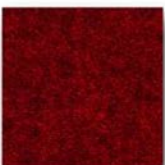
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303



563



211



256



603



302



552



201



202



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651