



ECOBaffle™ Polyester sound-absorbing baffles

Acustico® offers an innovative baffle absorbers line, named **Ecobaffle™**, suitable for the acoustic treatment of big collective spaces and industrial plants, where efficiency and economy are required.

The technical definition “baffles” usually describes sound-absorbing modules vertically installed to the ceiling. This specific installing method directly exposes both the panel faces to sound waves, increasing the sound absorbing properties of the panel: for this reason, these modules are commonly called double-sided absorbers.

The manufacturing technology of **Ecobaffle™** panels consists of a specific production process of surface thermo-smoothing and the next shaping in standard or customized dimensions and formats.

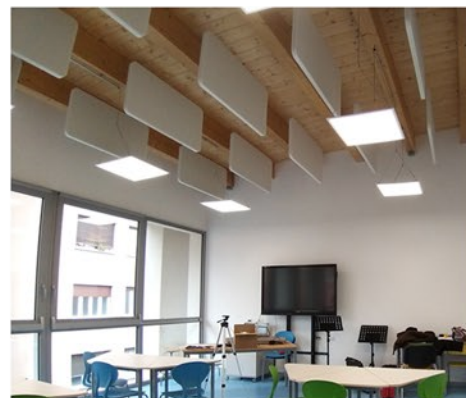
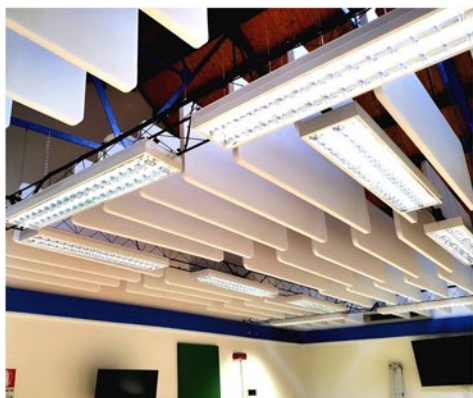
This process increases the acoustic performances of the panel and makes the material more compact as well, permitting to avoid the use of additional containment structures, which are normally adopted in the common baffles.

Ecobaffle™ modules are developed according to a green and sustainable approach, being entirely realized with eco-compatible, recycled and recyclable materials.



ACOUSTIC CORRECTION TREATMENTS FOR LARGE SPACES

Schools, collective spaces, industry, restaurants, offices, gyms, swimming pools, music halls and auditoriums



SYSTEMS AND MATERIALS FOR ACOUSTIC COMFORT

ACUSTICO® Registered Trademark of Spandre S.r.l. – Zona industriale Via V. dell'Ipca 2 - 10070 San Carlo (TO) - Italy
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CONSTRUCTION SYSTEM

Ecobaffle™ is a very innovative acoustic system in the sound-absorbing market, and represents an excellent operative tool to realize effective, low-cost and easy to install interventions of acoustic correction. At the same time, Ecobaffle™ ensures high quality standards in terms of healthiness, eco-compatibility and certified safeness, without excluding the typical Acustico®'s design-oriented approach.



Ecobaffle™ panels are made of PET polyester fibre, thermo-smoothed, heat-bound and totally fire resistant, and shaped with a mechanic cutting system into the required forms and dimensions.

The total absence of coverings and rigid elements (such as frames and other structural components) permits to this panel to be directly exposed to sound waves, with a considerable improvement of sound absorbing coefficients.

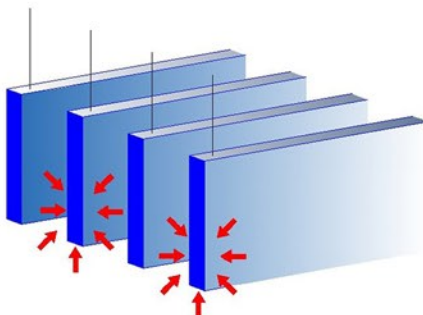
Ecobaffle™ panels' corners may be supplied with rounded shaping, making them suitable for elegant installations. In this way, it is possible to obtain a pleasing visual effect.

On request, Ecobaffle™ panels may also be realized in the sharp edges version.

OPERATING PRINCIPLES

Ecobaffle™ panels are realized with a particular multidensity polyester, capable of producing energy dissipation of incident sound waves through the rubbing of the filaments inside it. In association to the principle of the "vibrating membrane", they grant excellent performances even at low frequencies. Moreover, being sound-absorbing on both sides, Ecobaffle™ panels produce a double acoustic correction, if compared to the similar panels installed on walls and to ceilings.

Indeed, the exposure to sound waves of both faces produce a considerable increasing of the sound absorption properties, thanks to the contribution of the diffraction (because of the vertical position of panels).



SHAPES, DIMENSIONS AND COLOURS

Ecobaffle™ sound-absorbing panels are available in many standard dimensions and shapes (or may be customized) and in the three alternative colours black, white and grey.



Standard thickness: 40 mm
(other thicknesses on request)

Approximate weight: 2 Kg/mq

Standard dimensions in mm:

■ H 600 x 600 | H 800 x 800 | H 1000 x 1000 | ■ H 300/400/600/800 x 1200 | H 500 X 1500 | H 600 x 2000 | ■ H 240/400 X 1200 | Other shapes and dimensions available on request.



TECHNICAL SPECIFICATIONS AND CERTIFICATIONS

Ecobaffle™ panels are fireproof certified Euroclass B-s2,d0 (UNI 13501-1:2009) and meet the requirements of fire resistance and atoxicity.

PET POLYESTER FIBRE

Composition:

100% Polyester fibre
Non-hazardous substance D.M. 12/02/93.

General features:

Resistant to chemical agents (acids, salts, hydrocarbons), microorganisms and bacteria, odour-free, water repellent, does not decay or absorb fumes and smells.

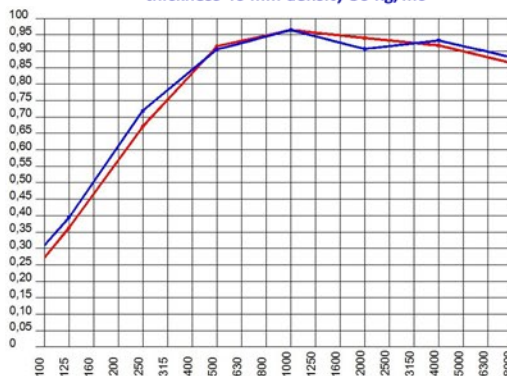
Fire resistance:

UNI EN 13501-1:2009 Euroclass B-s2,d0
Emits no opaque or toxic fumes (ANFOR F1 16-101).

Sustainability:

Product compliant to the requirements of USGBC - LEED® v4 for Building Design and Construction and of UNI EN ISO 14021:2016 Environmental labels and declarations.

Sound absorption values Ecobaffle™ panel
thickness 40 mm density 45 Kg/mc
thickness 40 mm density 50 Kg/mc



Ecobaffle™ panels don't contain vitreous fibres, glass wool or rock wool, nor formaldehyde. Moreover, there is no possibility to disperse any fibre or inhalable dust in the environment.

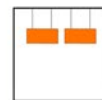
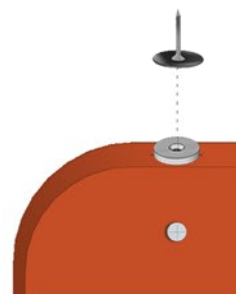
INSTALLATION

Ecobaffle™ panels may be installed to the ceiling with the following fixing systems.

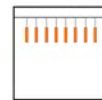
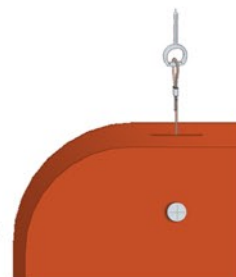
Ceiling installation



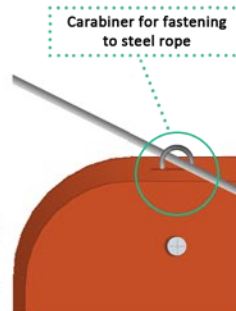
ADHERENT TO THE CEILING WITH MECHANIC/MAGNETIC SYSTEM



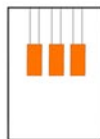
SUSPENDED TO THE CEILING WITH CABLES



SUSPENDED TO THE CEILING ON STEEL ROPES (Cables fixed on the perimeter walls)



Ecobaffle™ panels may be arranged applying the fixing system on the shortest edge, for vertical installations. That's a solution particularly suitable in case of high ceiling spaces (available on request).



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