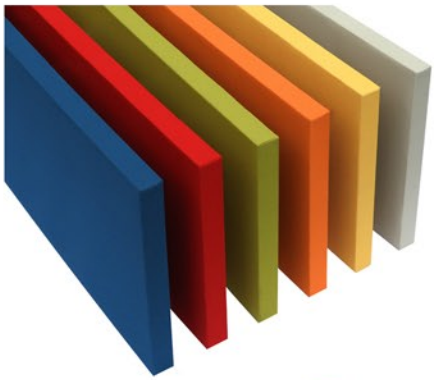
Technical data sheet

DECHO® BAFFLES

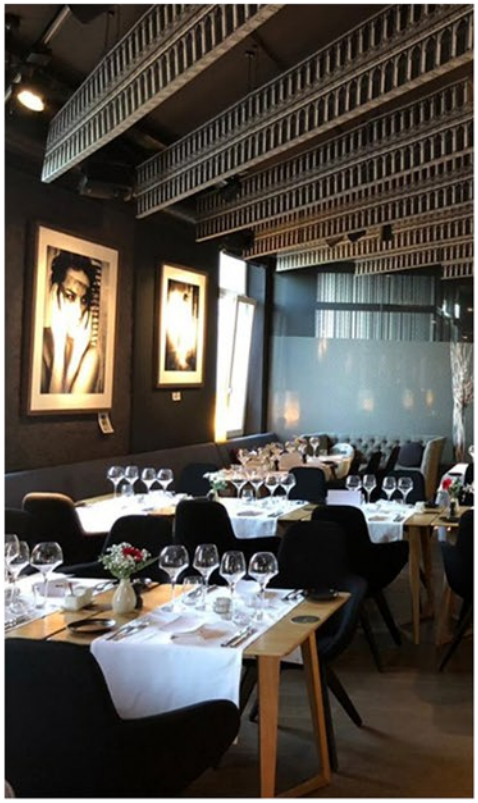
WWW.ACUSTICO.COM

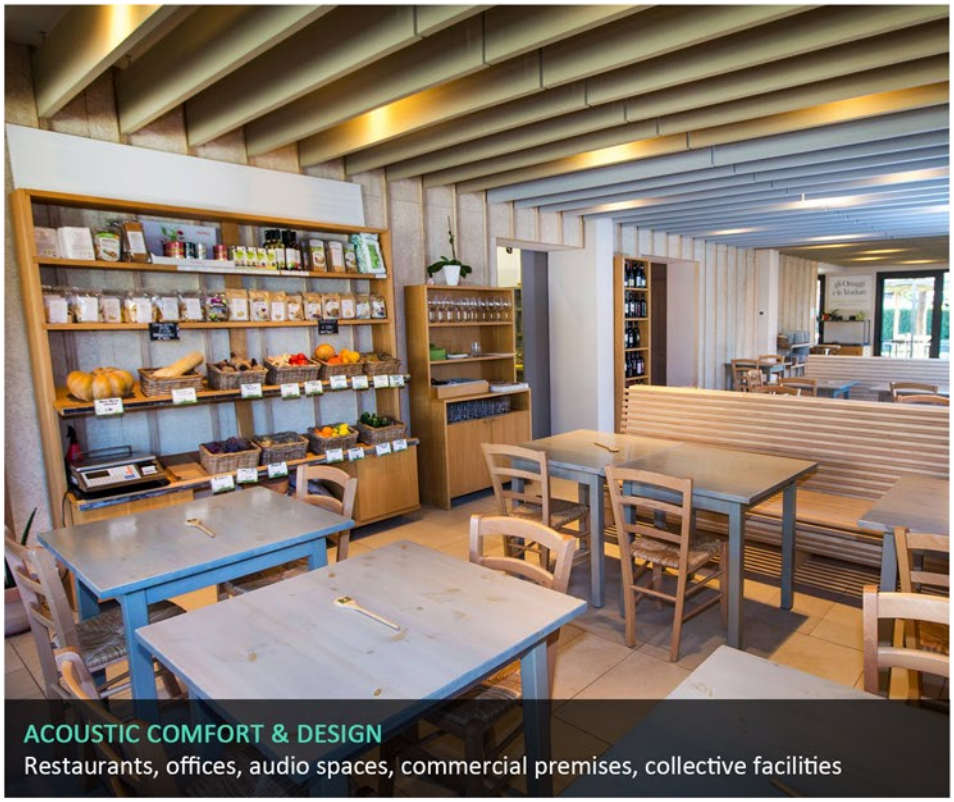


MADE IN ITALY

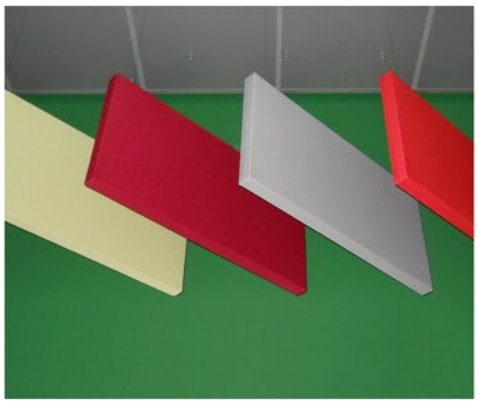
DECHO®BAFFLES Double-sided fabric-covered panels

The technical definition “baffles” is used for acoustic panels vertically installed to the ceiling. This installation method directly exposes both the panel faces to sound waves. For this reason, we use to call them double-sided or double absorbing panels.
Sound absorbing panels of Decho® Baffles line are an efficient operating tool for acoustic correction treatments in any space, being particularly suitable for high ceiling spaces. Indeed, in these spaces, sound absorption and sound waves diffraction permit together a drastic reduction of the reverberation level.
Decho® Baffles panels are suitable especially for high quality interior design spaces because of their elegant finishes, high technical quality and attention to details.
Decho® Baffles panel line offers a great versatility of use thanks to its standard and customized formats, ideal to create beautiful ceiling compositions. These absorbers are made of multidensity polyester fibre and are totally covered with a Trevira coloured fabric.
Decho® Baffles are available in many standard dimensions and in a wide selection of colours and textures (about 200 colours and 8 types of textures), or may be customized with any photographic print, if requested.





ACOUSTIC COMFORT & DESIGN
Restaurants, offices, audio spaces, commercial premises, collective facilities



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
VAT N. 10775380016 - Tel.: +39 011 920 6093 - Fax: +39 011 920 2545 - Mail: info@acustico.com
WWW.ACUSTICO.COM

CONSTRUCTION SYSTEM

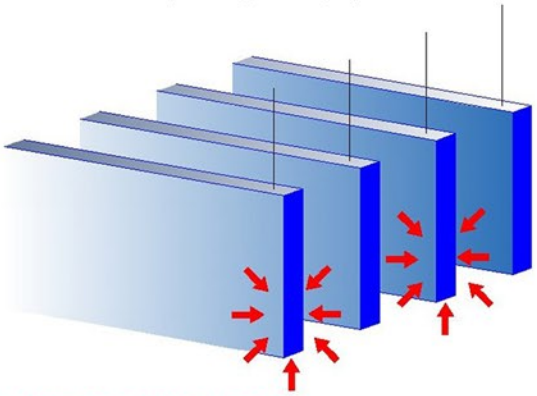
The construction system of Decho® Baffles panels consists of an internal multidensity polyester core (treated with a specific thermo-smoothing process), that grants high sound absorbing performances to the panel, and an internal perimetral frame made of extruded aluminium.

Decho® Baffles panels are completely covered with a robust two-way stretch fabric made of fireproof polyester, available in a wide range of textures and colours or customized with any HD photographic print.
In order to permit an easy installation of fixing systems, metal inserts are already set on the panel's perimetral frame. The threated holes are usually put at a distance of 200 mm from the edges of the panel in the standard versions.
In case of particular installation layouts, it will be possible to ask for a technical variation, putting as many threated holes as needed and set in the required position.

OPERATING PRINCIPLES

The technical term "baffles" generally indicates the sound-absorbing modules installed to the ceiling in vertical suspended positions.
This installation method directly exposes both the panel faces to sound waves, obtaining a remarkable increasing of the sound absorption. For this reason, they are usually called double-sided or double absorbing panels.
Decho® Baffles panels, being sound absorbing on both their faces, produce a double acoustic correction effect, if compared to similar panels directly installed on walls and to ceilings (which expose a single face to sound waves).
The particular features of multidensity polyester increases the sound absorption properties on a wider sound spectrum. For this reason, Decho® Baffles panels grant high performances even at low frequencies.

Because of the vertical installation method, Decho® Baffles panels produce a high output in terms of acoustic benefits thanks to the principle of diffraction, in addition to the concept of sound absorption by porosity.
These sound absorbers are usually set up in parallel lines, with a regular distance defined according to the required acoustic project results.



DIMENSIONS AND COLOURS

Decho® Baffles panels are available in many standard dimensions *(or customized)* and about 200 colours and 8 types of textures.

Standard thickness: 45 mm
(other thicknesses on request)

Approximate weight: 4 Kg/mq

Standard dimensions in mm:
300/400/500/600 H x 1200 L
300/400/500/600 H x 2000 L
300/400/500/600/1200 H x 2500 L
Other dimensions on request.

TECHNICAL SPECIFICATIONS AND CERTIFICATIONS

Decho® Baffles panel line is fireproof certificated in the assembled version in Class 1 (UNI 9177) and any construction element meets the requirements of fire resistance and atoxicity.

INTERNAL PET POLYESTER FIBRE

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

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

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

PERIMETRAL STRUCTURAL FRAME

Extruded aluminium
Frame made of plastic polymers, fire resistant Class 1 UNI 9177, available on request and for small formats

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

POLYESTER FABRIC COVERING

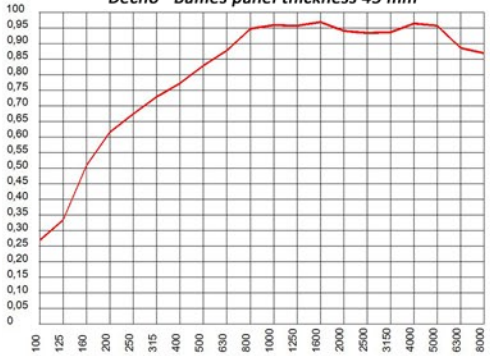
Fire reaction:
Italy - Class 1
UNI EN 13501-1:2009 Euroclass B-s1,d0

Oeko-Tex® Standard 100 - Class 1

Abrasion resistance (Martindale):
UNI EN ISO 12947:2000 100.000 cycles ± 20%

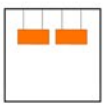
Lightfastness (Xenotest):
UNI EN ISO 105 B02 5 ± 1

Sound absorption values
Decho® Baffles panel thickness 45 mm



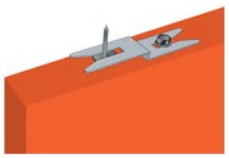
INSTALLATION

Decho® Baffles panels may be installed to the ceiling, with the following fixing systems.



SUSPENDED TO THE CEILING WITH CABLES

ADHERENT TO THE CEILING WITH MECHANIC SYSTEM



Decho® Baffles 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).

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
VAT N. 10775380016 - Tel.: +39 011 920 6093 - Fax: +39 011 920 2545 - Mail: info@acustico.com
WWW.ACUSTICO.COM