

Decho® Trend Design, performance, innovation



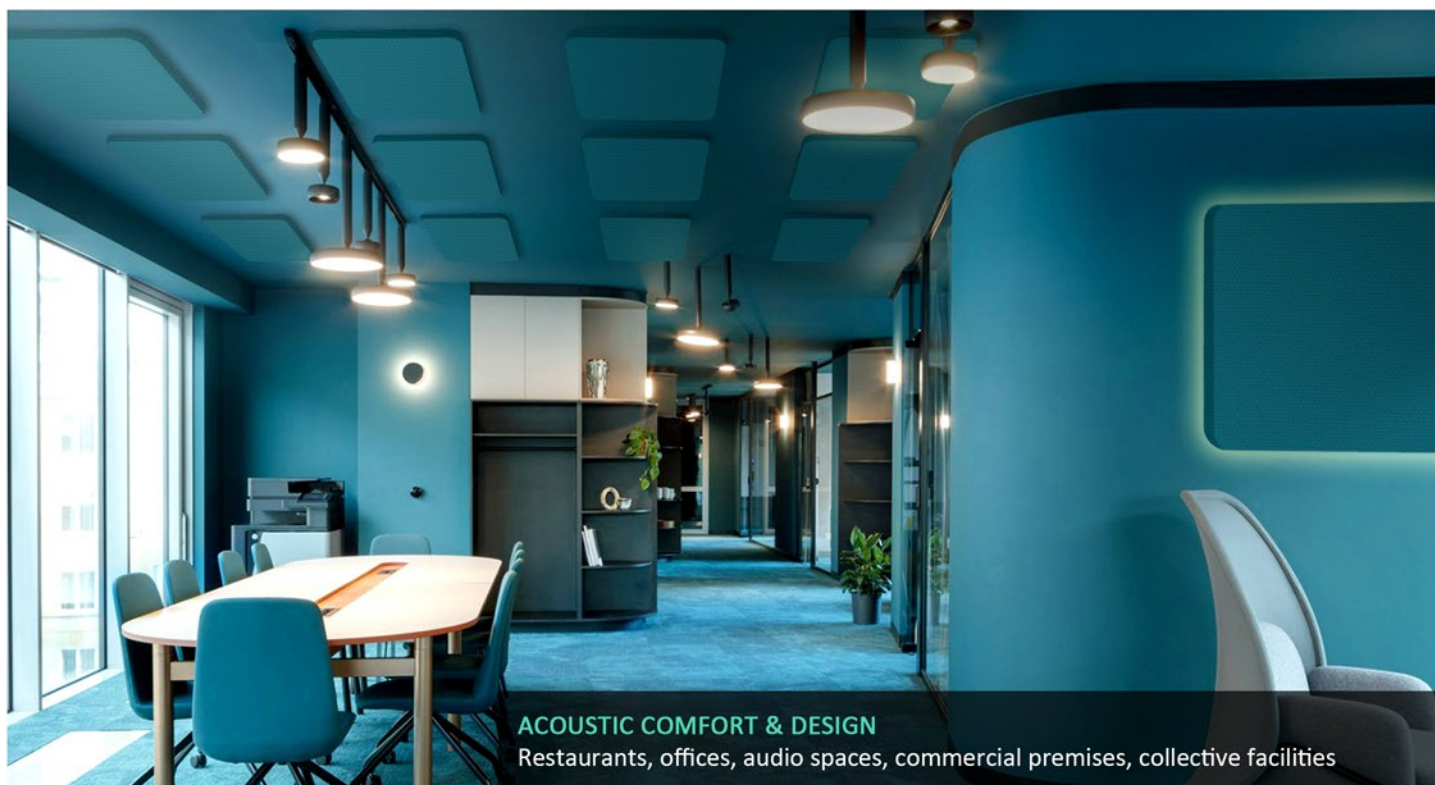
Decho® Trend goes over the usual rigorous geometries of traditional sound-absorbing systems by introducing the complexity of the curve forms, extending the design creativeness towards new compositional potentials.

Decho® Trend sound-absorbing panel has introduced an important technological innovation, the shapeable structural frame made of thermoplastic polymer. In this way it has bypassed the linearity and squaring typical of the traditional acoustic panels, and has given the possibility to create almost unlimited shape versions.

This new constructive solution for the support element is not only an advantage from the aesthetic point of view, but gives panels high stability and durability as well.

Moreover, **Decho® Trend** is made of PET internal acoustic insulation and covered with a polyester fibre fabric, being totally green, eco-friendly and 100% assembled with recyclable plastic polymers.

Decho® Trend panels are available as acoustic lamps as well, with a LED lighting device installed on the panel: this solution lets you manage the acoustic comfort and lighting at the same time, with one piece of furniture only.



ACOUSTIC COMFORT & DESIGN

Restaurants, offices, audio spaces, commercial premises, collective facilities

THE MOST ADVANCED SOUND ABSORBING PANEL

The added value of lightness

The innovative technical solutions developed for the realization of **Decho® Trend** panels, are completely based on light plastic polymers. In this way, the final product has a very low weight if compared to common acoustic panels. Thanks to their lightness, **Decho® Trend** sound-absorbing panels are the perfect solution to be adopted in any context that requires very little structural loads.

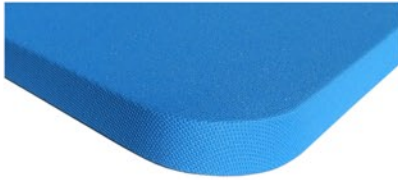


SYSTEMS AND MATERIALS FOR ACOUSTIC COMFORT

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CONSTRUCTION SYSTEM



The construction system of Decho® Trend panels consists of thermo-smoothed and heat-bound PET polyester fibre, totally fire resistant, and an internal perimetral structure made of hot-molded plastic polymers. This particular solution adopted for the perimetral frame makes Decho® Trend an extremely light panel, giving the possibility to create almost unlimited shape versions, according to any customer's need.

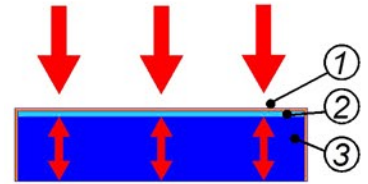
The surface covering is realized with a robust two-way stretch fabric made of fireproof polyester, characterised by a particular texture with a three-dimensional visual effect.

OPERATING PRINCIPLES

The acoustic operating principle of Decho® Trend panels is based on the concept of the "sound absorption by porosity", associated to the concept of the "vibrating membrane": indeed, polyester surfaces are thermo-smoothed, extending the panel's performances even at low frequencies, where common sound-absorbing panels cannot be so much efficient.

The acoustic benefit is higher because of the capacity of the polyester fibre to dissipate the sound energy, through the vibrations and the rubbing of its filaments.

The scheme on the right side explains the acoustic operating principle of the panel.



- 1 - Fabric covering
- 2 - Polyester membrane density 100 Kg/mc
- 3 - Polyester core density 45-50 Kg/mc

DIMENSIONS AND COLOURS

Decho® Trend is a cutting edge system in any component, and even the choice of its aesthetic finishes is not far from this design intention.

The surface covering is made of an innovative fireproof Trevira fabric, with a stretch effect and three-dimensional texture, available in a wide range of colours, that gives panels an immediate acoustic appeal and exceptional durability.

Decho® Trend panels are available in many standard forms and dimensions, and the search for new shapes constantly goes on.

Standard thickness: 45 mm (others on request)

Approximate weight: about 3-4 Kg/mq



Standard dimensions in mm: 400 x 400 | 600 x 600 | 1000 x 1000 | 600 x 1200 | Ø 800 | Ø 1000
▲ side 800 | ▲ side 1000 | ● 600 x 1000 | Other forms and dimensions available on request.

TECHNICAL SPECIFICATIONS AND CERTIFICATIONS

Decho® Trend 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

Hot-molded plastic polymers fire resistant Class 1 UNI 9177

POLYESTER FABRIC COVERING

Fire reaction:

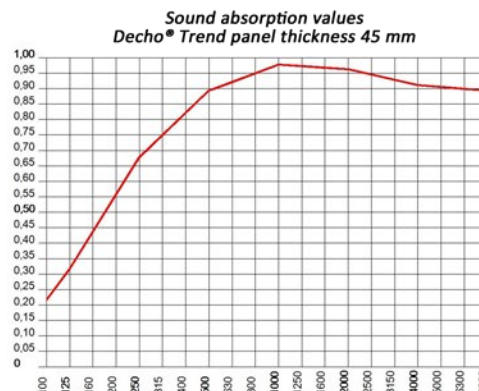
Italy - Class 1
UNI EN 13501-1:2009 Euroclass B-s1,d0

Oeko-Tex® Standard 100 - Class 1

Abrasion resistance (Martindale):
UNI EN ISO 12947:2000 60.000 cycles ± 20%

Lightfastness (Xenotest):

UNI EN ISO 105 B02 6 ± 1

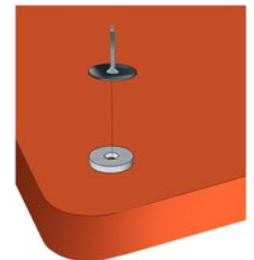


Decho® Trend panels don't contain vitreous fibres, glass wool or rock wool, nor formaldehyde. Moreover, there is no possibility to disperse any fibre or inhalable dust in the environment.

INSTALLATION

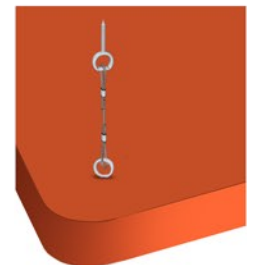
Decho® Trend panels may be installed on wall or to the ceiling, with the following fixing systems.

Ceiling installation



ADHERENT TO THE CEILING WITH MAGNETIC SYSTEM

The installation of Decho® Trend panels in adherence to the ceiling with magnetic system is extremely easy to do and permits to remove modules for cleaning and maintenance operations.



SUSPENDED TO THE CEILING WITH CABLES IN FLAT MODE

Decho® Trend panels may be installed with different inclinations, adjusting the cable length according to the desired installation height, thus obtaining a modern layout with a particular visual effect.

Wall installation



INSTALLED ON THE WALL AS "ACOUSTIC FRAMEWORK"

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