



## DECHO® SHELTER Acoustic freestand screens

Decho **Shelter®** acoustic screens by Acustico® are designed for installations in any architectural context that requires a simple, modular and aesthetic system for temporary and movable acoustic partitioning.

**Shelter®** movable screens are suitable especially for the separation of offices working areas, and for the creation of private spaces in restaurants, reducing disturb between close tables.

**Shelter®** free stand screens are simple to move, thanks to the light structure they are made of and to the supplied support systems, available with pivoting wheels if required (in case of necessity to move screens frequently).

**Shelter®** freestand modules are available in a wide range of textile coverings, that include over 200 colours and various textures, different according to the intended use.

**Shelter®** partitions may be the ideal solution to realize soundproofing and sound-absorbing shieldings for smart working stations, and can generate an evident improvement of phone calls quality, eliminating the environmental reverberation level and noise problems.

Screen surfaces may be printed with any high definition image (according to the customer's request): in this way, **Shelter®** movable screens can be used to create highly professional scenic backdrop, granting a particular aesthetic appeal during the activities of working conference calls or video productions.



### SYSTEMS AND MATERIALS FOR ACOUSTIC COMFORT

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## CONSTRUCTION SYSTEM



The construction system of Shelter® screens consists of an internal PET polyester fibre core, thermo-smoothed, heat-bound and totally fire resistant, and an internal perimetral metallic frame.

Shelter® panels are entirely covered with a robust two-way stretch fabric made of fireproof polyester, available in a wide range of textures and colours. Fabrics may also be provided with any HD digital printing chosen by the customer.

## OPERATING PRINCIPLES

Shelter® screens belong to a second generation of acoustic separators, and don't contain internal rigid layer, eliminating any eventual sound reflection.

High soundproofing performances are obtained by increasing the density of the internal acoustic material until its functional limit and avoiding, at the same time, an excessive compactness which may generate sound reflections. According to this, it is possible to obtain a balanced level of performance between acoustic permeability (*sound absorption*) and screening effect (*sound insulation*).

Therefore, Shelter® panels may function as dividing screens between working stations and sound-absorbing units at the same time: these movable screens can improve the reverb reduction in any space.

## DIMENSIONS AND COLOURS

Shelter® movable screens are available in many standard dimensions (or may be customized), about 200 colours and 8 types of textures.

Standard thickness: 45 mm

Standard dimensions in mm:

1200 mm H x 800/1000/1200 L | 1400 mm H x 800/1000/1200 L

1600 mm H x 800/1000/1200 L | 1800 mm H x 800/1000/1200 L

Other dimensions available on request.

Support and assembly systems: coloured with Silver RAL 9006



## TECHNICAL SPECIFICATIONS AND CERTIFICATIONS

Decho Shelter® 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 toxicity.

### 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.

### POLYESTER FABRIC COVERING

**Fire reaction:**

Italy - Class 1

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

**Oeko-Tex® Standard 100 - Classe 1**

**Abrasion resistance (Martindale):**

UNI EN ISO 12947:2000 100.000 cycles  $\pm$  20%

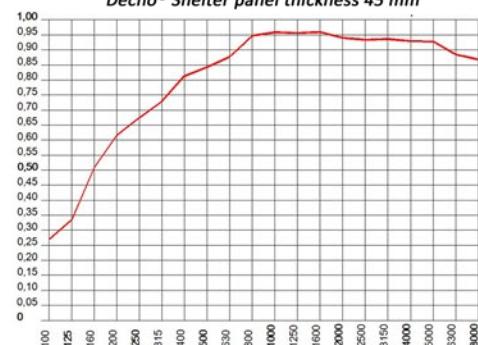
**Lightfastness (Xenotest):**

UNI EN ISO 105 B02 5  $\pm$  1

### Soundproofing capacity R'w 22 dB(A)



Sound absorption values  
Decho® Shelter panel thickness 45 mm



**Decho® Shelter 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.**

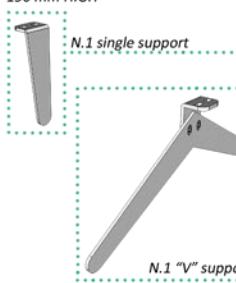
## INSTALLATION

Shelter® movable screens may be singularly installed or in composition with the following support systems.

### MODULAR FLAT KIT COMPOSED BY N.2 SUPPORTS 100 mm HIGH



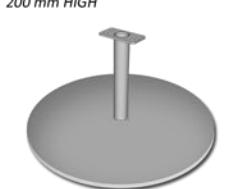
### THREE POINTS KIT COMPOSED BY N.2 SUPPORTS 150 mm HIGH



### KIT WITH PIVOTING WHEELS COMPOSED BY N.2 SUPPORTS 155 mm HIGH

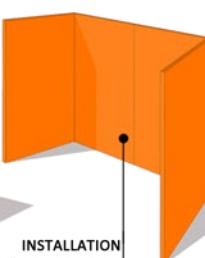
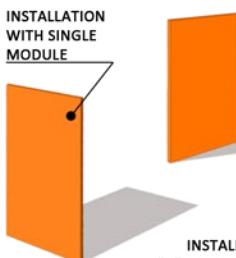


### DISK-SHAPED KIT COMPOSED BY N.2 SUPPORTS 200 mm HIGH

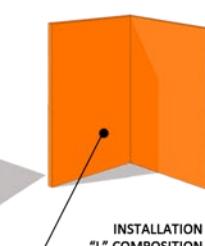
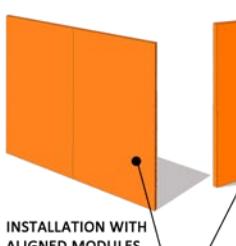


## Compositions

### INSTALLATION WITH SINGLE MODULE



### INSTALLATION WITH ALIGNED MODULES



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