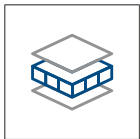
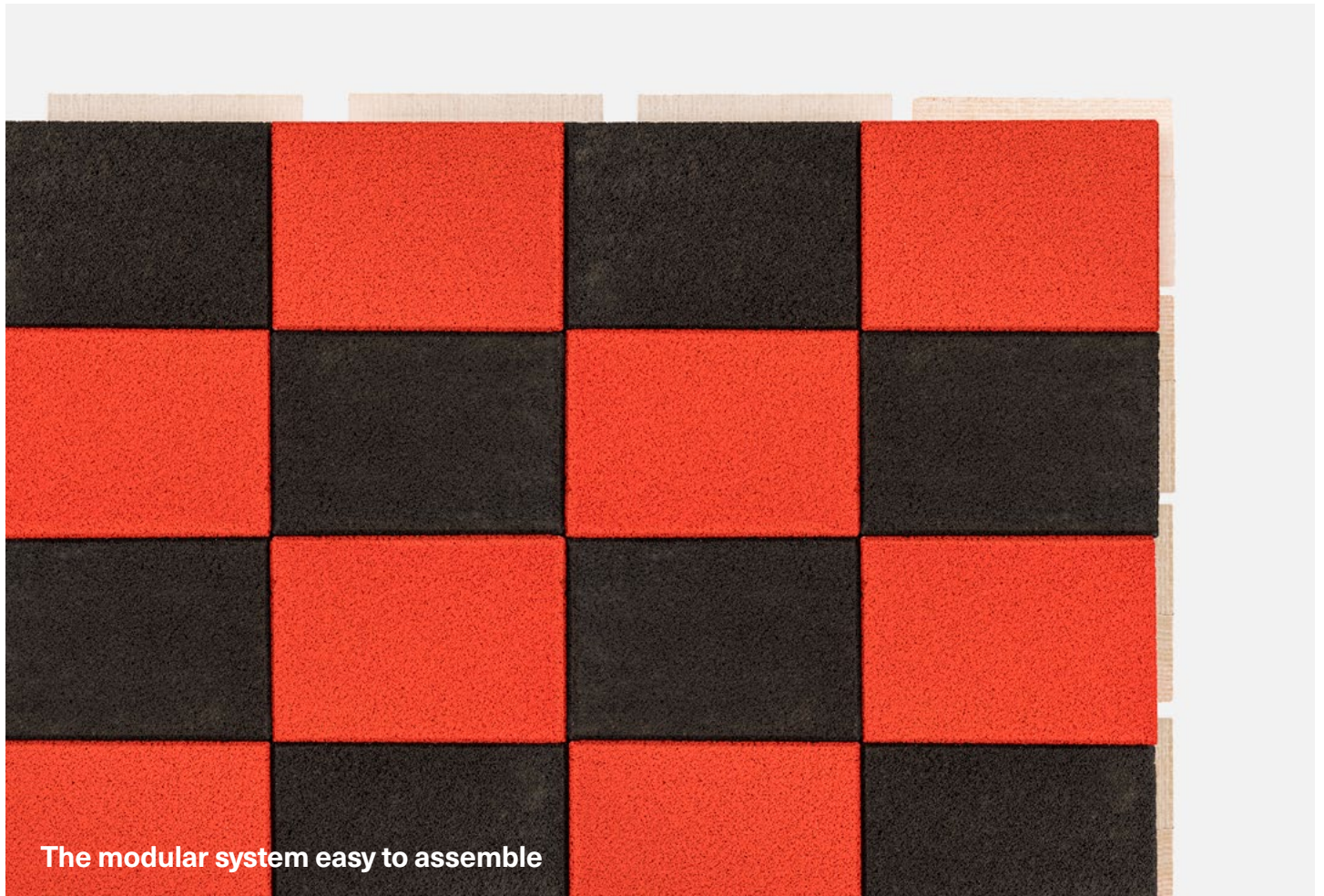


# INN ACOUSTIC MODULAR

## INN ACOUSTIC modular system



**MATERIALS**  
Rock wool



**REACTION TO FIRE**  
Euroclass  
A2-s1, d0



**CLEANING**  
Contact the tech department

### APPLICATIONS





**CEILING**  
(in adherence or with metal framework)



**WALL**  
(in adherence or with metal framework)

## TECHNICAL FEATURES

DIMENSIONS	Standard panel	990 x 585 mm	
	Panel thickness	37 mm	
	Custom size	Contact technical area	
EDGE		SMOOTHED EDGES	
SPECIFICATIONS	Thermal resistance		0,038 W/mK
	Mould resistance		YES
	Shock resistance		YES
	Water vapour permeability		YES
	Sound insulation		YES
	Soundproofing		YES
	Washable product		YES
	Specific weight in place		8 kg/m <sup>2</sup> approx.
	Stone wool density		155 kg/m <sup>3</sup>

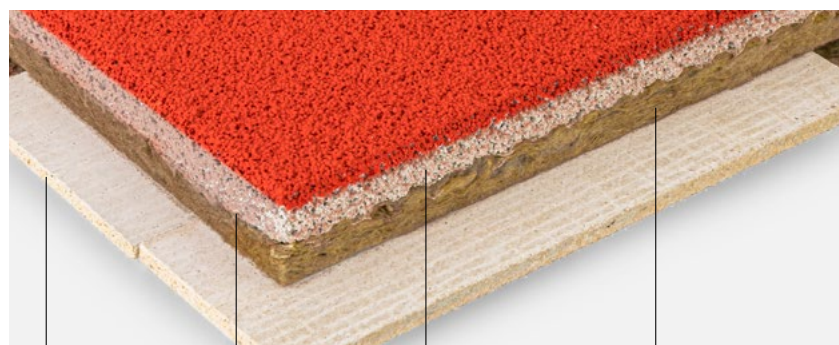
Products size have a tolerance of  $\pm 0.5\%$  of the indicated value.

## FASTENING SYSTEM

INSTALLATION ON METAL FRAMEWORK	Primary metal framework	pitch 50 cm
	Secondary metal framework	pitch 30 cm
	Cement glue	8 kg/m <sup>2</sup>
	Joint glue	1 tin /200 m <sup>2</sup>
	Fixing: concealed screw	8 pz /panel   13,5 pcs/m <sup>2</sup>

## THE PANEL

INN ACOUSTIC Modular modules are prefabricated and ready for installation.



The INN Acoustic Modular system, consisting of panels with fibre cement hooks and interposed glass fibre mesh, guarantees: remarkable **ease of installation**, **perfect flatness** and **excellent mechanical resistance**.

**FIBRE CEMENT HOOK**  
for interlocking with other panels

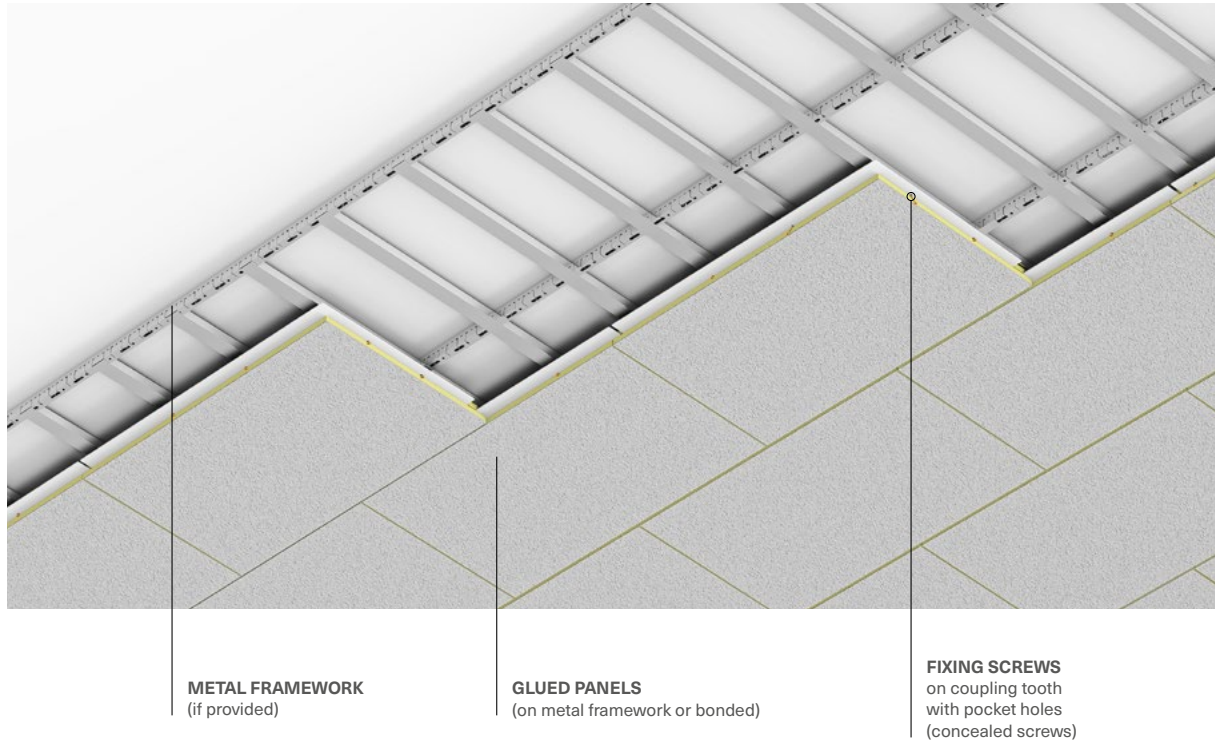
**GLASS FIBRE MESH**  
greater sealing of nanotechnology foam and mechanical resistance of the panel

**NANOTECHNOLOGICAL FOAM**  
air-permeable coating

**STONE WOOL**  
Thermal-acoustic, sound-absorbing and sound-insulating

## THE SYSTEM

INN ACOUSTIC Modular system diagram



## FINISHES

### SURFACE



**MEDIUM**  
(700 / 1200 µm)

GRANULARITY

### COLOR



Solid color\*  
(color chart)

Heat-treated coloring of the mass with bright and clean covering shades of colors, that do not fade over time

\*95% tint to keep the surface matte

### INSERTIONS

TRACK LIGHT SYSTEMS  
RECESSED SPOTLIGHTS  
EXTERNAL STRIP LED  
SPOT LIGHTING

INSPECTION HATCHES  
AIR CONDITIONING VENTS  
FASTENING POINTS  
MECHANICAL TERMINAL

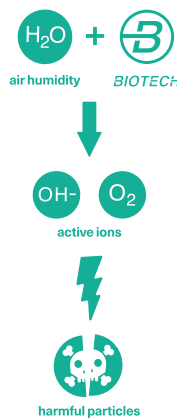


## IONIZATION



Ülkerfarbe Biotech is a completely natural bio-paint which, thanks to its patented active principle, neutralizes suspended pollutants (such as odors or fine dust), balances the heat exchange and, ionizes the air acting in a similar way to the chlorophyll photosynthesis. It is completely anti-mildew and most importantly, it lasts over time.

### FUNCTIONING



- The moisture on the wall activates the silver nanoparticles.
- Ionized water molecules are produced with silver ions with antibacterial properties, capable of purifying the surface (anti-mold).
- The thermos-ceramic component creates a microporous surface that allows the heat to spread homogeneously, preventing the formation of thermal bridges (thermal regulation).
- The anions released into the environment attract micro-particles, positive ions and electrostatic charges of all kinds (pollution, smoke, odors, positive ions deriving from computers or electronics in general) which, by precipitating, are neutralized.
- The surface and air of the room are purified and ionized, bringing numerous benefits to humans (for example, they improve breathing and the nervous system, increase the ability to concentrate, attention and work productivity).

### COMPARISONS

<b>Big cities</b>	40 – 50 /cm <sup>3</sup>
<b>Small cities</b>	100 – 200 /cm <sup>3</sup>
<b>Countryside</b>	700 – 1000 /cm <sup>3</sup>
<b>High mountains</b>	1500 /cm <sup>3</sup>
<b>Along the beach</b>	2000 /cm <sup>3</sup>
<b>After a storm</b>	2000 /cm <sup>3</sup>
<b>INN ACOUSTIC with BIOTECH</b>	2000 /cm <sup>3</sup>

### CERTIFIED PRODUCT

The ionization of the air made by Ülkerfarbe BIOTECH paint, with the consequent positive effects, is calculable (through the use of portable electronic meters) and can be calibrated (by increasing or decreasing the ionic charge) depending on the size and type of environment (a large office needs a different negative ionic charge compared to a private home).

This product is certified and among the only ones in the world that are truly effective, measurable and long-lasting. Guaranteed quality.

### PRIZES



INN ACOUSTIC with Ülkerfarbe BIOTECH bio-paint won the first prize in the Retail Interior Surface category at the SURFACE DESIGN SHOW in 2018, for a greater environmental comfort.

LOCATION: **Cannavacciolo Bistrot** (Turin)



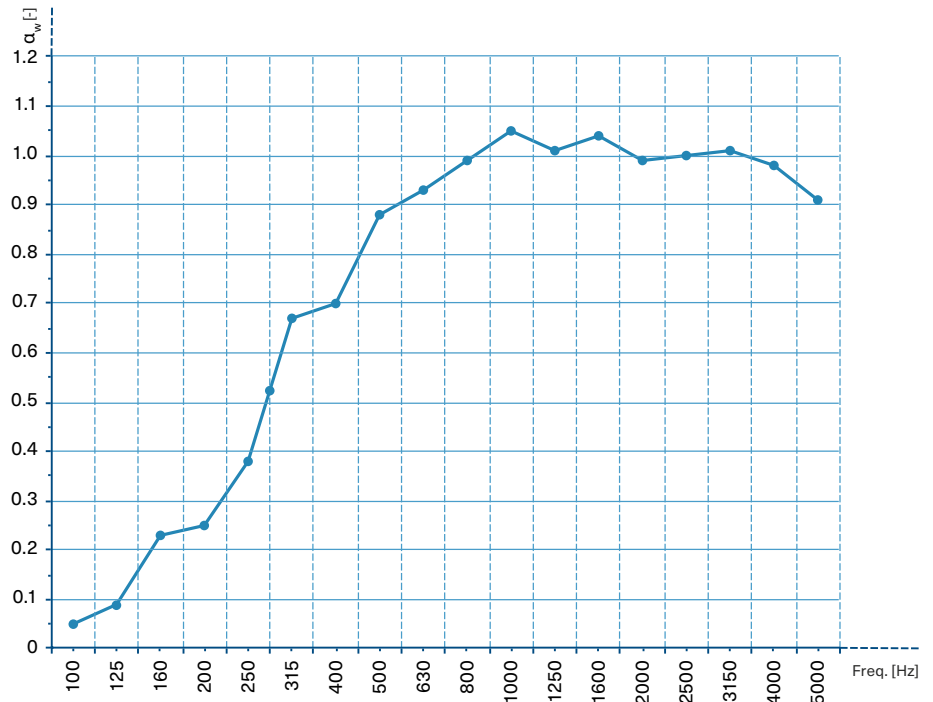
**SOUND ABSORPTION**

REFERENCE STANDARDS  
EN ISO 354:2003 / EN ISO 11654:1997

Freq. [Hz]	$\alpha_w$ [-]
100	0.05
125	0.09
160	0.23
200	0.25
250	0.38
315	0.67
400	0.70
500	0.88
630	0.93
800	0.99
1000	1.05
1250	1.01
1600	1.04
2000	0.99
2500	1.00
3150	1.01
4000	0.98
5000	0.91

Type A installation  
according to EN ISO 354

**SOUND ABSORPTION COEFFICIENT FOR BONDED APPLICATIONS**

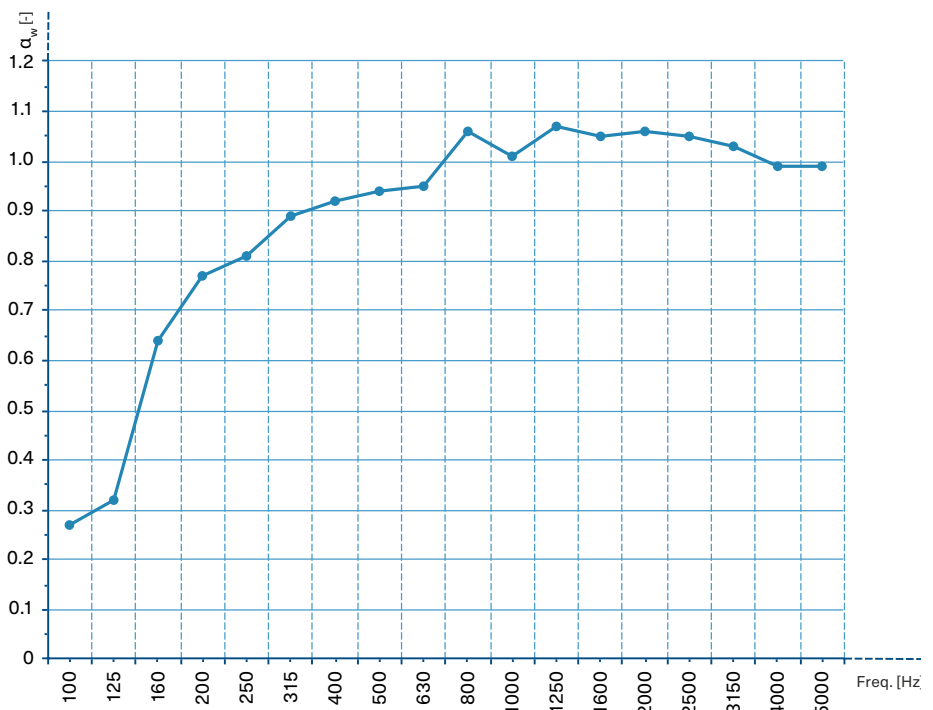


\*MINERAL WOOL PANEL  
600 x 1000 mm / sp. 30 mm / density 150 kg/m<sup>3</sup>  
REFERENCE STANDARDS  
EN ISO 354:2003 / EN ISO 11654:1997

Freq. [Hz]	$\alpha_w$ [-]
100	0.27
125	0.32
160	0.64
200	0.77
250	0.81
315	0.89
400	0.92
500	0.94
630	0.95
800	1.06
1000	1.01
1250	1.07
1600	1.05
2000	1.06
2500	1.05
3150	1.03
4000	0.99
5000	0.99

Type A installation  
according to EN ISO 354

**SOUND ABSORPTION COEFFICIENT FOR BONDED APPLICATIONS WITH MINERAL WOOL\***



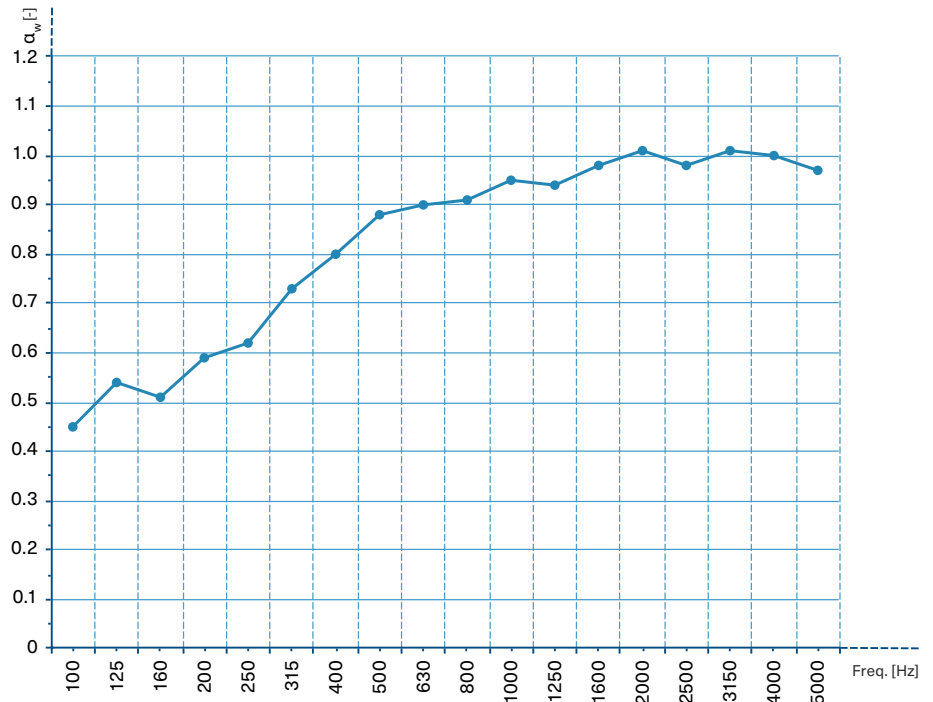
**SOUND ABSORPTION**

\*MINERAL WOOL PANEL  
600 x 1000 mm / sp. 30 mm / density 150 kg/m<sup>3</sup>  
REFERENCE STANDARDS  
EN ISO 354:2003 / EN ISO 11654:1997

Freq. [Hz]	$\alpha_w$ [-]
100	0.45
125	0.54
160	0.51
200	0.59
250	0.62
315	0.73
400	0.80
500	0.88
630	0.90
800	0.91
1000	0.95
1250	0.94
1600	0.98
2000	1.01
2500	0.98
3150	1.01
4000	1.00
5000	0.97

E250 installation  
according to EN ISO 354

**SOUND ABSORPTION COEFFICIENT FOR APPLICATIONS WITH AIR GAP AND MINERAL WOOL\***

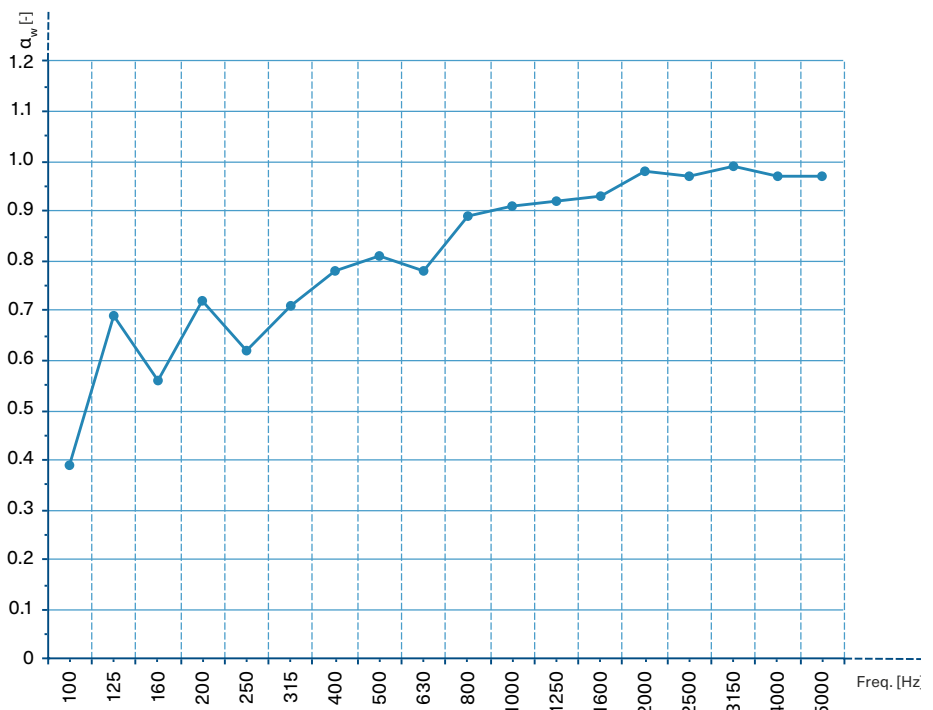


\*MINERAL WOOL PANEL  
600 x 1000 mm / sp. 30 mm / density 150 kg/m<sup>3</sup>  
REFERENCE STANDARDS  
EN ISO 354:2003 / EN ISO 11654:1997

Freq. [Hz]	$\alpha_w$ [-]
100	0.39
125	0.69
160	0.56
200	0.72
250	0.62
315	0.71
400	0.78
500	0.81
630	0.78
800	0.89
1000	0.91
1250	0.92
1600	0.93
2000	0.98
2500	0.97
3150	0.99
4000	0.97
5000	0.97

E250 installation  
according to EN ISO 354

**SOUND ABSORPTION COEFFICIENT FOR APPLICATIONS WITH AIR GAP\***



## SPECIFICATIONS

Supply and installation of sound-absorbing wall, ceiling and false ceiling cladding in class  $A_w$  1.00 with continuous monolithic surface INN ACOUSTIC Modular by IsolDesign in fire reaction Euroclass A2-s1, d0. The system consists of stone wool panels with a density of  $155 \text{ kg/m}^3$  with glass fibre mesh in between to provide greater mechanical resistance. A perimeter notch inserted in the thickness allows the system to be perfectly flat for applications on walls and ceilings. The standard module with dimensions  $1000 \times 600 \times 37 \text{ mm}$  can be installed adhered or on a metal framework and can be applied vertically at low height thanks to its excellent impact resistance (the only system of its kind to have this characteristic). The system features the possibility of inserting lighting points, recessed profiles and inspection hatches. A wide range of colours (Ral or NCS) allow for aesthetic customisation of the system. The surface can integrate BIOTECH's ionising, low-VOC sanitising nanotechnology. The system is Leed certified (Leadership in Energy and Environmental Design).

## AREAS OF APPLICATION

Ideal for new construction or renovation of large spaces such as conference halls, theatres and auditoriums, museums, libraries, teaching spaces, hotels and spas, retail spaces, cinemas, restaurants, swimming pools, places of worship and many others.

## WARNINGS

If the ionising product BIOTECH is used, the final colour may undergo visual variations and therefore, IsolDesign will produce a colour sample for approval by the DL. In the event of the need for restoration due to leakage, vandalism or otherwise, please contact the IsolDesign technical department. Do not use paints or varnishes outside the INN ACOUSTIC Modular system, otherwise the sound absorption of the entire system would be compromised. The entire INN ACOUSTIC Modular system must be stored under cover and protected from the weather. All system assembly phases (from grout preparation to customised finishes and/or details) must be inspected and validated by IsolDesign's technical department. Non-standard colours will only be confirmed after approval of a colour sample (specially produced by IsolDesign) by the DL.

