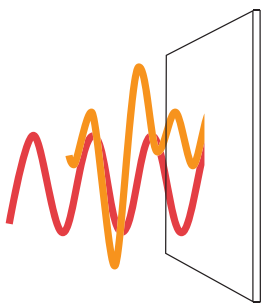


 **texdecor**
PANEL

AirPanel
1 face

$$\alpha_w = 1$$

$$\text{NRC} = 1$$



ACOUSTIC
PANEL





AirPanel 1 face Round 1200 mm, textile references Twist 9111 04 77 and 9111 03 58
and AirPanel 1 face Round 600 mm, textile references Twist 9111 04 77, 9111 03 58, 9111 03 95 and 9111 07 71
fixation by sling cables

ACOUSTIC COMFORT

AirPanel has been designed to reduce reverberation phenomena by absorbing sound waves, thereby highly effectively improving a room's interior acoustic comfort. They are well suited to meet the acoustic needs of buildings under renovation as well as regulatory requirements for new buildings of the following types :

- Offices: open spaces, meeting rooms, call centres...
- Restaurants: hotels, corporate, schools...
- Functional rooms: music schools, libraries, show halls, amphitheatres...

Each type of space requires a specific acoustic treatment, depending on its intended use. This treatment provides several benefits:

- Facilitating discussion and concentration.
- Improving speech intelligibility and speech clarity.
- Reducing sound amplification and propagation phenomena resulting from reverberation.

Ceiling and wall AirPanels offer an efficient acoustic solution for the following situations :

- When the wall surface is insufficiently large to apply acoustic wallcovering.
- During renovations, they can easily be integrated into an existing setup.
- Correct efficiently the acoustics with individual panels placed in a room based on the location of the source of the sound and the required acoustic level target.

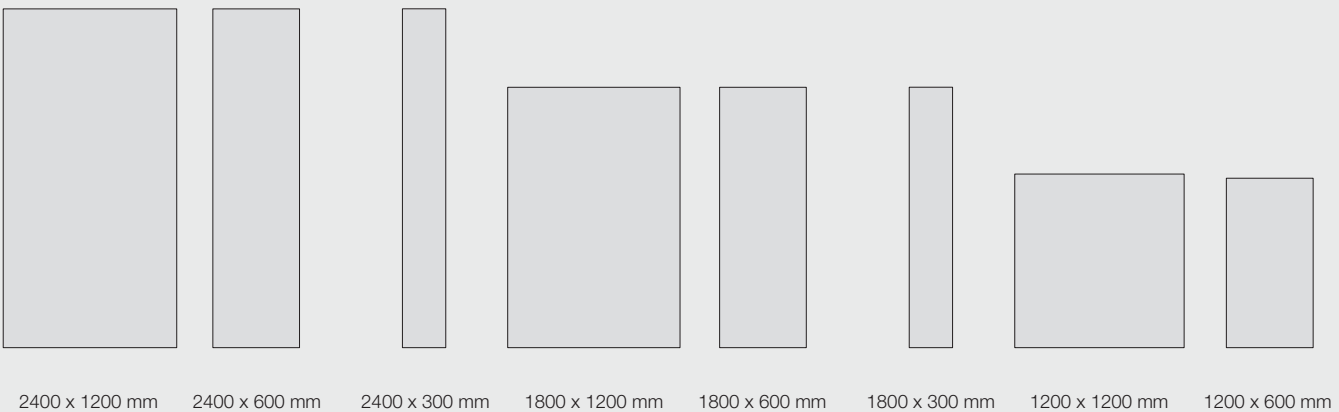


WALL
PANEL | AirPanel
1 face



AirPanel 1 face Hexagon 600 mm, fixation magnets,
textile references Twist 9111 07 71, 9111 02 24, 9111 05 15, 9111 03 58, 9111 04 12, 9111 02 47 and 9111 04 66

18 SHAPES



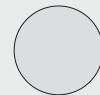
AirPanel | CEILING PANEL



600 x 300 mm



Hexagon 600 mm



Round 600 mm



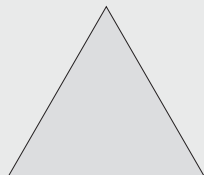
575 x 575 mm
Tile



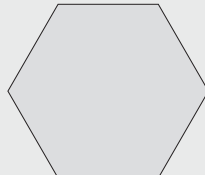
1200 x 300 mm



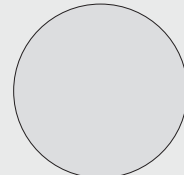
600 x 600 mm



Triangle 1200 mm



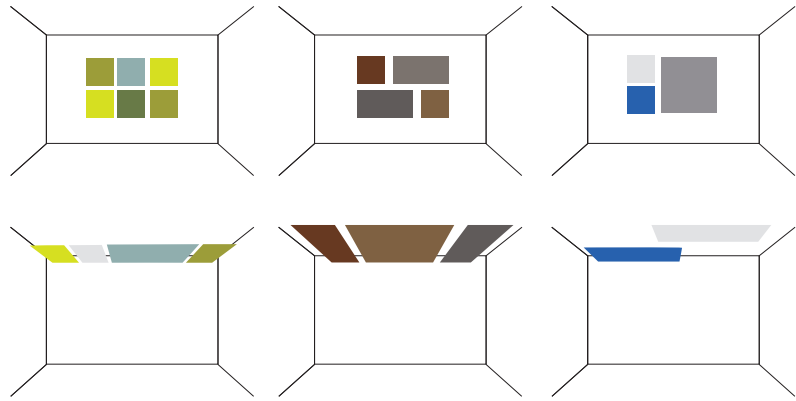
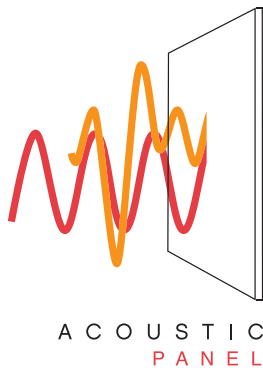
Hexagon 1200 mm



Round 1200 mm



575 x 1175 mm
Tile



ADVANTAGES

AirPanel acoustic panels are made of an open-cell absorbent and a metal frame covered with an anechoic fabric cover. Whether suspended from the ceiling or attached to the wall, these panels enhance a room and can be easily adapted to any type of architectural layout.

AESTHETICS :

18 shapes allowing a layout adapted to the architecture of the buildings.

AIRPANEL ensure a solution that is both aesthetic and technical, and can fit into any ceiling or wall configuration.

Multiple color and shape combinations allow you to create a functional ceiling or a unique wall decor : tone on tone, coloured mosaic pattern.

The brochure «Textile Twist AirPanel» presents the supply of textiles and colors available for the covers.

ACOUSTIC PERFORMANCE :

- NRC 1 = maximum acoustic performance
- Alpha w 1 = maximum acoustic performance

SIMPLE TO MOUNT :

- Wall fastening : metal rails or magnets
- Ceiling fastening : metal rails or sling cables

EASY CARE :

- The panel's fabric cover can be removed
- Washable polyester fabric

SAFETY AND ENVIRONMENT :

- Trevira CS / M1 fabric
- Oeketex / M1 absorbent



AirPanel 1 face 1200 x 600 mm, fixation by sling cables

ACOUSTIC

Acoustic comfort is when the sound message (words, music) reaches listeners in a perfect, unaltered state. A mix of absorbent and reflective surfaces is necessary to achieve maximum level of acoustic comfort.

One talk about acoustic correction when we change the absorption and reflection capacity of one or more walls, by changing their texture, surface, geometry and coating materials.

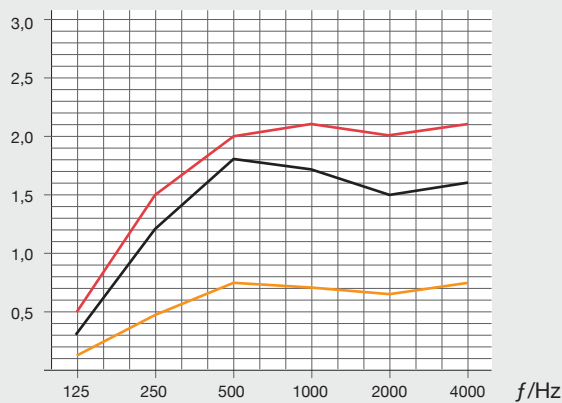


ACOUSTIC VALUES

Equivalent sound absorption area

- Square 1200 x 1200 mm, with 20 cm plenum
- Square 1200 x 1200mm, without plenum
- Tile 575 x 575mm with 20 cm plenum

	alpha w	NRC
— Square 1200 x 1200 mm, with 20 cm plenum	1	1
— Square 1200 x 1200mm, without plenum	1	1
— Tile 575 x 575mm with 20 cm plenum	1	1



Frequencies (Hz)	125	250	500	1000	2000	4000
Sound absorption area of square panel 1200x1200 with 20cm plenum (sqm)	0.5	1.5	2	2.1	2	2.1
Sound absorption area of square panel 1200x1200 without plenum (sqm)	0.3	1.2	1.8	1.7	1.5	1.86
Sound absorption area of tile square 575x575mm with 20cm plenum (sqm)	0.12	0.49	0.74	0.70	0.66	0.75

Equivalent sound absorption area: $A = \alpha w \times \text{panel surface}$
 Its average is calculated at the 500, 1000 and 2000 Hz bands.

Reverberation time (T_r) of a room having volume (V) is calculated using the Sabine formula: $T_r = 0.16 V/A$.

Shape types	Dimensions (ln mm)	Average equivalent sound absorption area (sqm) at 20 cm	Average equivalent sound absorption area (sqm) without plenum
Square	600 x 600 x 50	0.50	0.42
Square	1200 x 1200 x 50	2.03	1.66
Rectangle	600 x 300 x 50	0.25	0.21
Rectangle	1200 x 300 x 50	0.5	0.42
Rectangle	1200 x 600 x 50	1.02	0.83
Rectangle	1800 x 300 x 50	0.76	0.62
Rectangle	1800 x 600 x 50	1.52	1.25
Rectangle	1800 x 1200 x 50	3,04	2,49
Rectangle	2400 x 300 x 50	1.02	0.83
Rectangle	2400 x 600 x 50	2.03	1.66
Rectangle	2400 x 1200 x 50	4.06	3.32
Triangle	3 side of 1200 x 50	1.36	1.08
Hexagon	6 side of 300 x 50	0.44	0.36
Hexagon	6 side of 600 x 50	1.75	1.43
Round	Diamètre 600	0.39	0.32
Round	Diamètre 1200	1.59	1.30
Tile	575 x 575 x 70	0.70	-
Tile	575 x 1175 x 70	1.40	-

FINISHING AND FITTING GUIDE



AirPanel 1 face 1200 x 1200 mm, fixation by sling cables

DESCRIPTION



18 shapes

CEILING FITTINGS

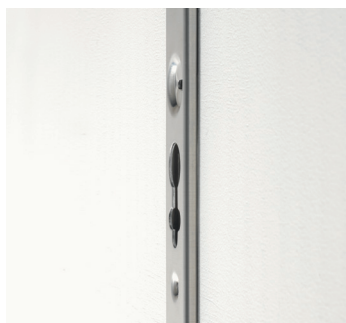


Sling cables
Metal colour



Option cable and end cap :
color white or black

WALL FITTINGS

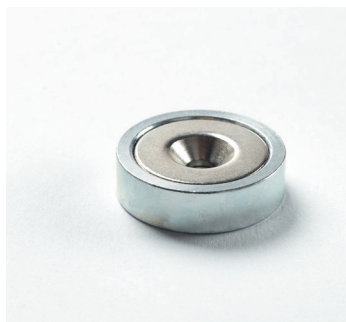


Wall fitting on rail



Knurled screw screwed on the plate

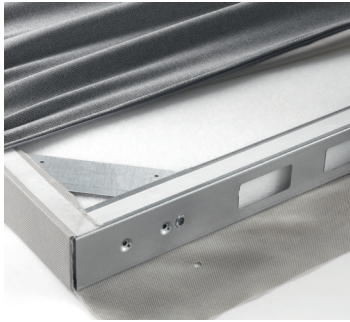
METALLIC SURFACE



Magnetic wall fitting



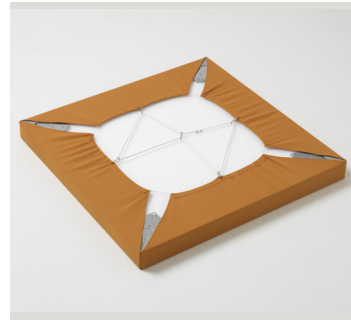
Magnet screw on the plate



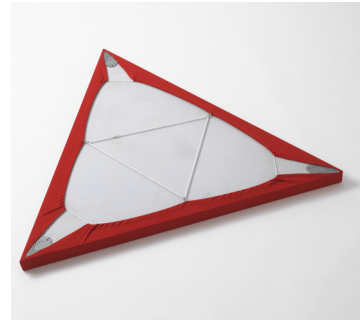
Perforated metal frame on all 4 sides



Hexagon 600 mm side
Covered panel – rear view



Square 600 x 600 mm
Covered panel – rear view



Triangle 600 mm
Covered panel – rear view



Finishing tip screws onto the twist clip



Knurled screw on the plate



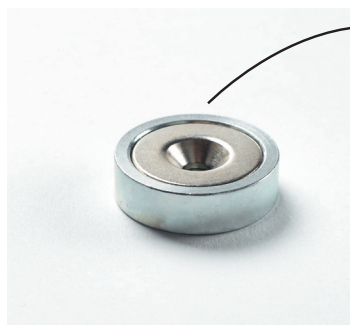
Ceiling fittings on white rail



Knurled screw screwed on the plate



Rail fitted horizontally or vertically
according to constraints



Magnetic wall fitting



The magnet is housed in an opening
to provide maximum lateral hold



Magnet can be fitted on all types of
wall surface

CEILING PANEL



Metallic surface : cabinet, door,
structure...



After removing the initial tile, the Air-
Panel tile is fully inserted in the ceiling



Final installation



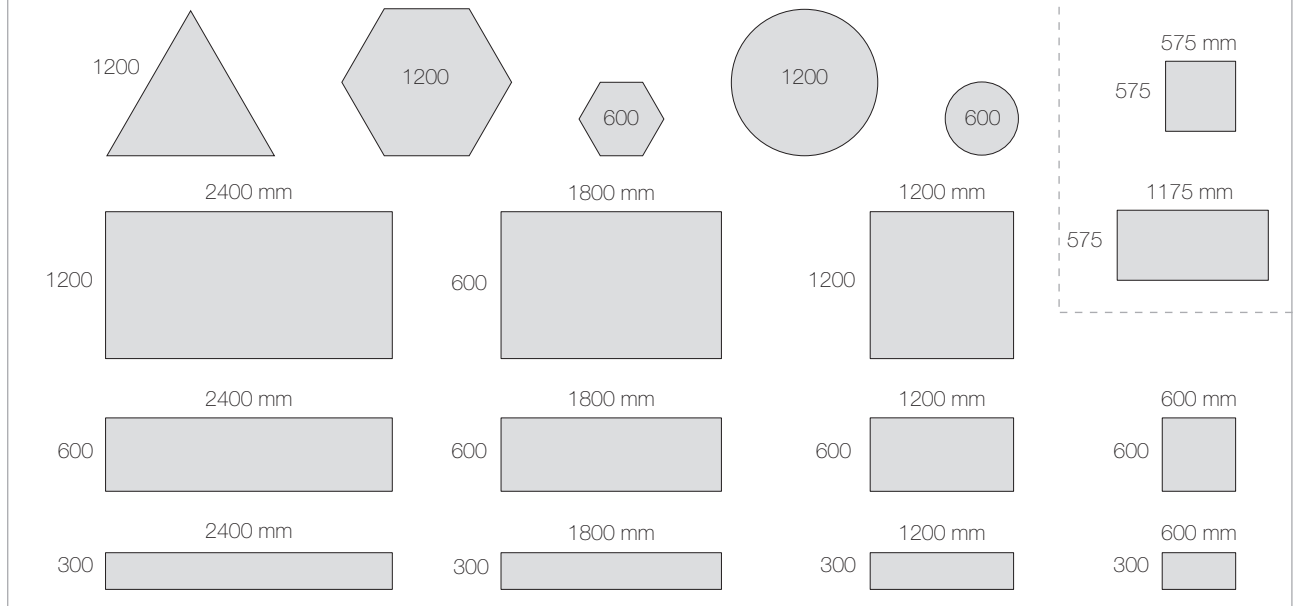
AirPanel 1 face Hexagon 600 mm, fixation rail + magnets



AirPanel 1 face, 1200 x 1200 mm, 600 x 600 mm and 1200 x 600 mm tablecloth, suspended by white cables

GUIDE OF CHOICE

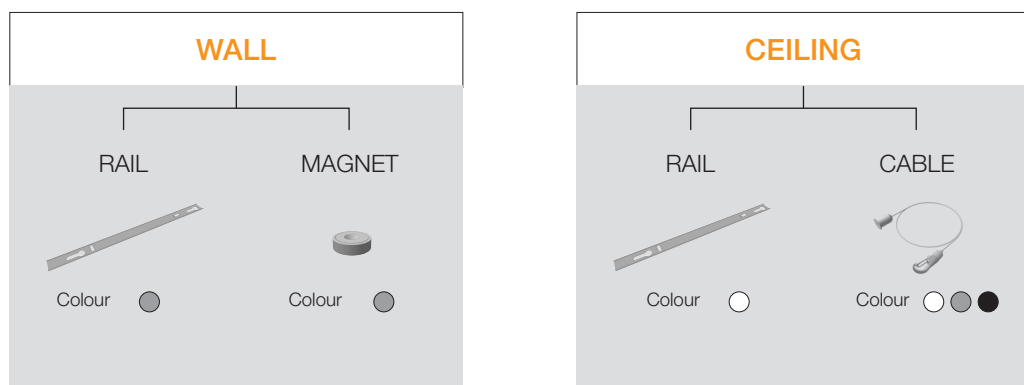
1 Choose the format



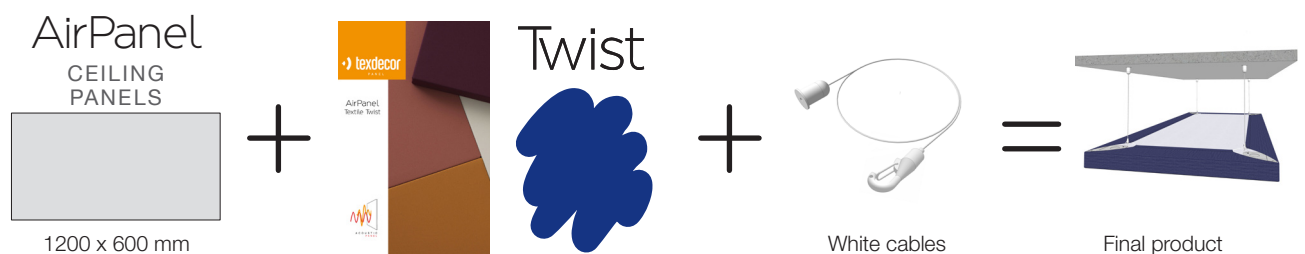
2 Choose the colour in the AirPanel textile brochures



3 Choose panel fixing method



Ex : Ceiling panel with a Twist fabric cover, in blue colour and a square 1200 mm format suspended by white cables



Find our complete range of acoustic panels / Acoustic Range 0.7



1 sided acoustic panels



2 sided acoustic panels



Choice of fabrics and colours for covers



Lighting selections



Digital printing
Print'AirPanel
Images Vol.1 & 2



Totem



Surface Panel
N°1 Wood

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