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Acoustic Panels

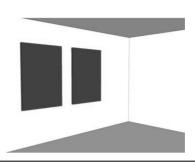
Technical manual 2017

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One Side OS

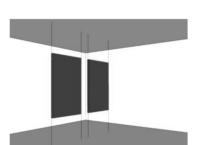
Sound absorbing panel for wall and ceiling appliance.



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Double Side DS

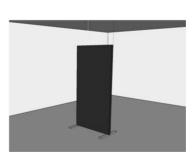
Sound absorbing & sound insulating panel for ceiling appliance and used as a room divider.



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Free Standing FS

Self-supporting sound absorbing & sound insulating panel, used as a room divider.



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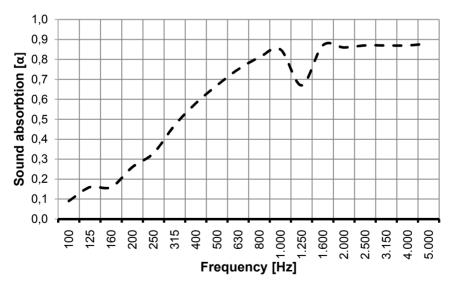
One Side - OS

One Side "OS" panels are sound absorbing, composed by metal structures, and coated with textile on one side only; They are made for wall and ceiling mounting.

I. Sound absorption coefficient

The sound absorbtion coefficient (α) indicates the amount of the sound energy absorbed by a material. Its value varies depending of the frequency with a range between 0 and 1. A material with a sound absorption coefficient α = 0.65, is equivalent to say that it is absorbing 65% of the sound energy at a certain frequency. In other words, only 35% of the sound energy is reflected.

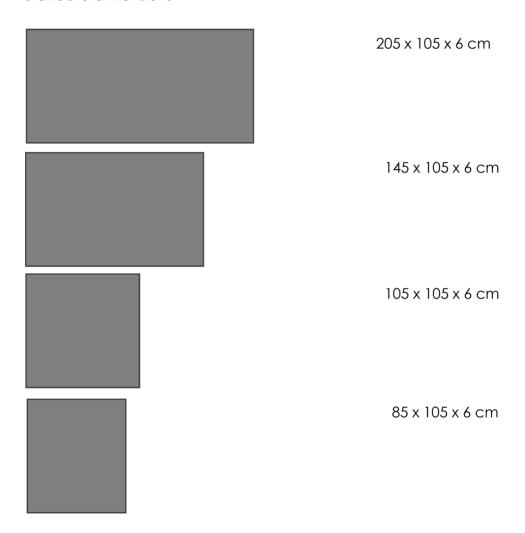
The Average sound absorbtion coefficent OS panel $\alpha_W = 0.65$



Hz	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.600	2k	2.5 k	3.15k	4 k	5 k
а	0.09	0.16	0.16	0.26	0.33	0.47	0.58	0.67	0.75	0.81	0.85	0.67	0.87	0.86	0.87	0.87	0.87	0.88

II. Dimensions:

Standard dimensions



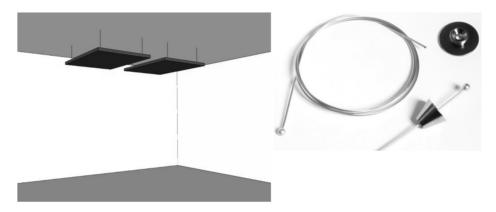
Panels can be used both vertically and horizontally Custom sizes are available upon request.

III. Applications

One Side panels have various applications:

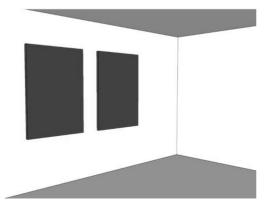
Ceiling installation (horizontally)

Dangling hooks with 10 cm distance from ceiling, can be adjusted up to 155 cm (4 hooks per panel).



Wall installation (in adherence)

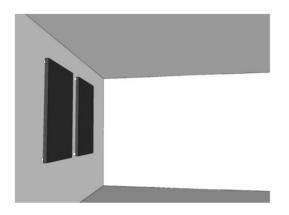
Hooks Kit for adherence wall mounting. (2 hooks per panel)

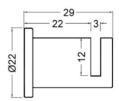




Wall installation (with spacer)

Spacer hooks kit from 22 to 72 mm (4 hooks per panel)

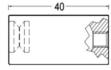


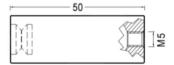


Spacer of 25, 30, 40 e 50 mm









IV. Accessories

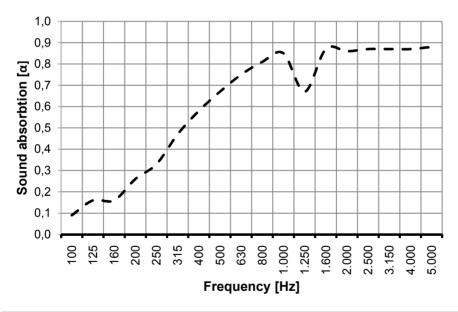
- Rail for wall application
- Joining hooks

Double Side - DS

The Double Side "DS" panels are sound absorbing panels composed by metal structures and coated with textile on both sides; they are made for ceiling application (vertically) and as a room divider. On request an insulating sheath can be added inside the panel.

I. Sound absorption

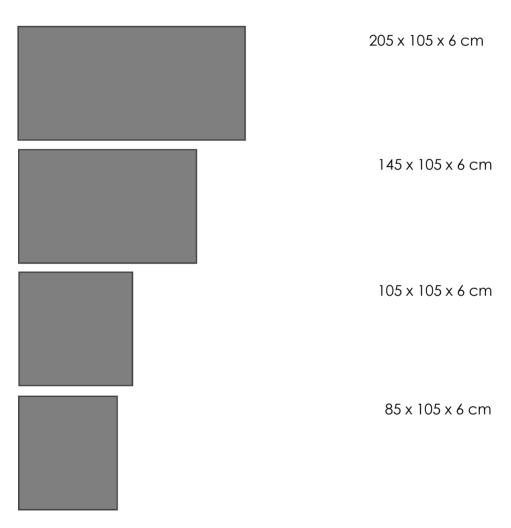
Everage sound absorbtion coefficent DS panel $\alpha_W = 0.65$



Hz	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.600	2k	2.5 k	3.15k	4 k	5 k
а	0.09	0.16	0.16	0.26	0.33	0.47	0.58	0.67	0.75	0.81	0.85	0.67	0.87	0.86	0.87	0.87	0.87	0.88

I. Dimensions

Standard dimensions



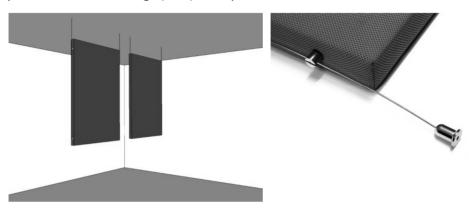
The panels can be used both vertically and orizzintale

Custom sizes are available on request

II. Applications

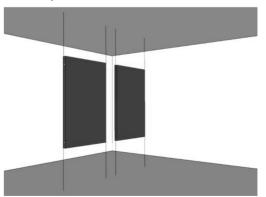
Ceiling installation (vertically)

Hooks kit for vertical ceiling installation (2 hooks and 4 hangs per panel).



Room divider

Hooks kit for room divider installation (2 hooks on ceiling, 4 hangs on the panel, and 2 hooks on the floor).





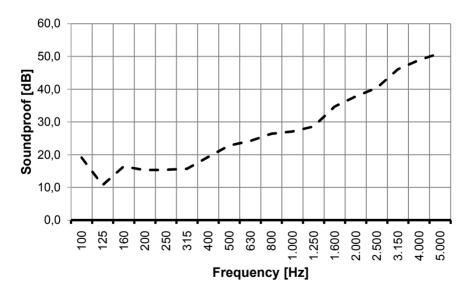
Free Standing - FS

The Free Standing "FS" panels are sound absorbing and soundproofing; they are made as acoustical room dividers and improve rooms' acoustics. The FS panels are coated with textile on both sides, and self-supported with chromed metal feet.

I. Soundproof

Soundproofing is the capacity of an element to stop the sound. Soundproof varies depending on the frequency.

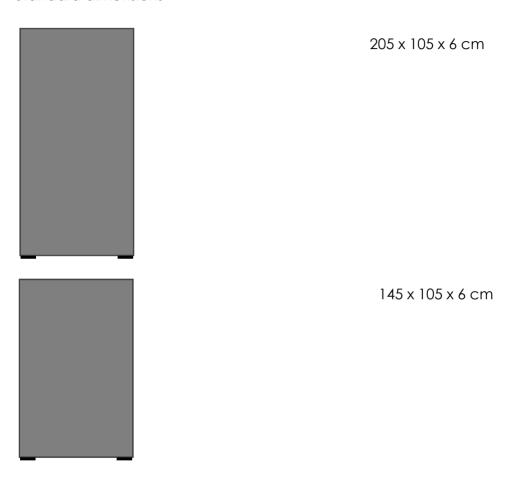
<u>Average soundproof FS panel Rw = 26 dB</u>



The soundproof value of the Free Standing panels is indicative due to a non soundproofing connection with other elements such as, wall and/or other panels.

II. Dimensions

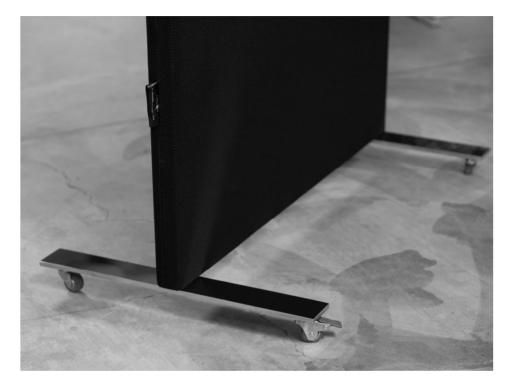
Standard dimensions



Custom sizes are available upon request

III. Accessories

Wheels to facilitate the movement of panels.



Main features

	OS One Side	DS Double side	FS Free Standing
Sound absorbtion	X	X	Х
Soundproof		Х	Х
Room divider		Х	Х
Ceiling application	Х	Х	
Wall application	Х		
Custom sizes	Х	Х	Х
Printing (monochrome)	Х	Х	Х

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