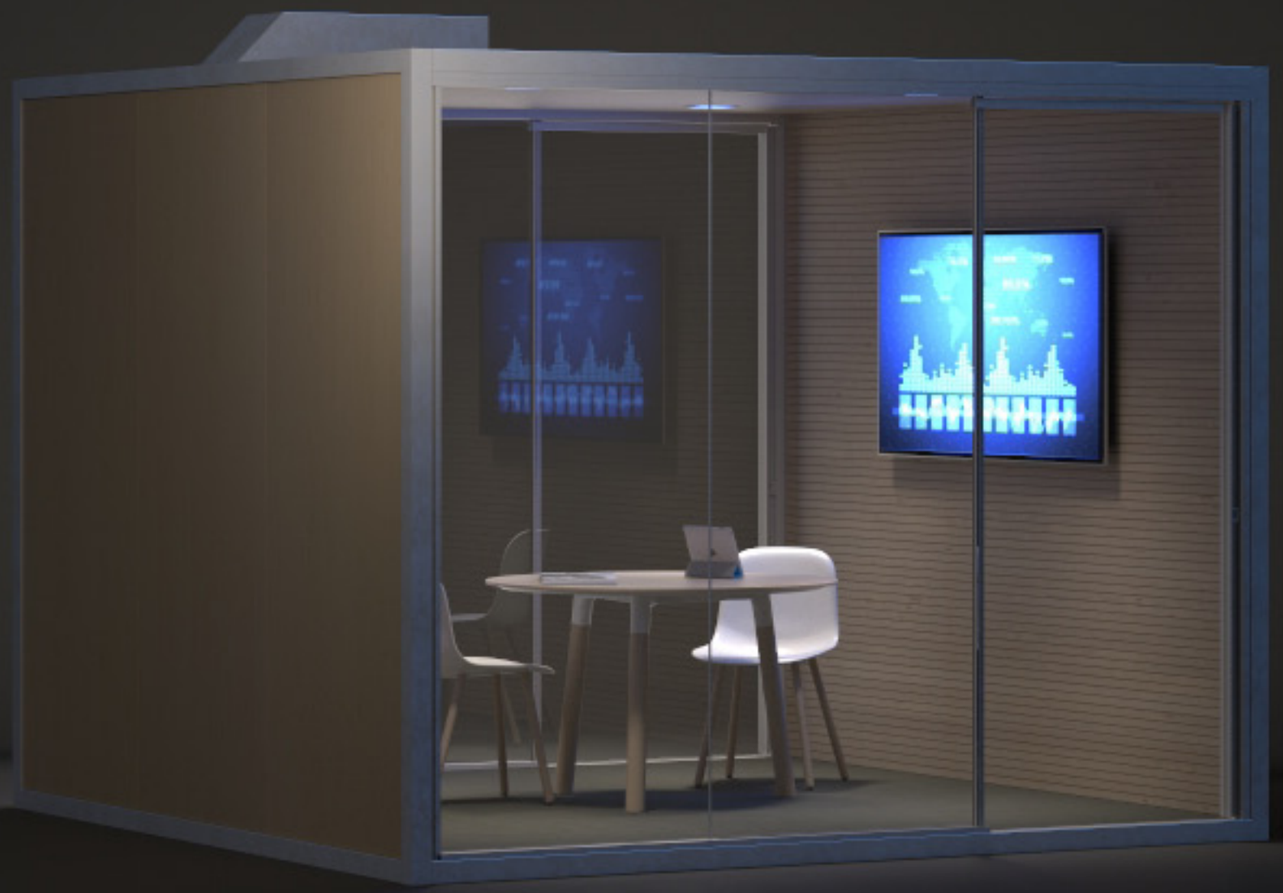
ACOUSTIC ROOM MEETING SYSTEM

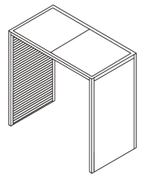


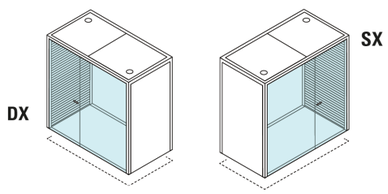
fantonigroup

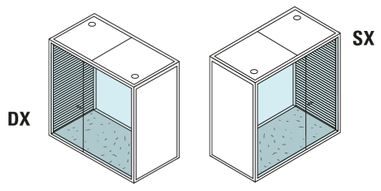
MATRIX

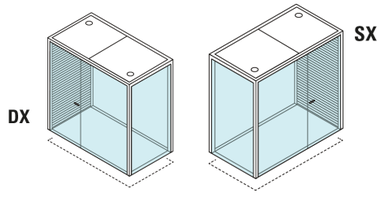
120 X 240 CM

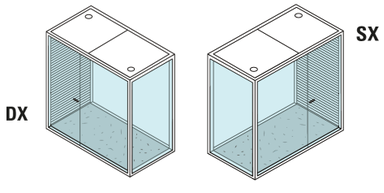
2 BLANK WALLS
NO GLASS SIDES
NO FLOORING

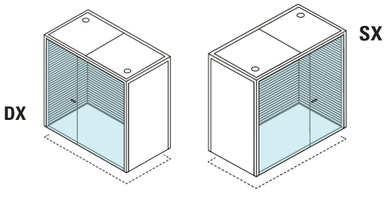


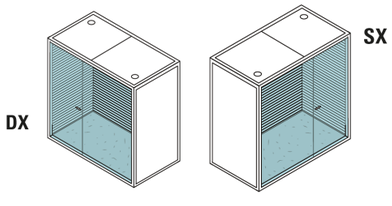




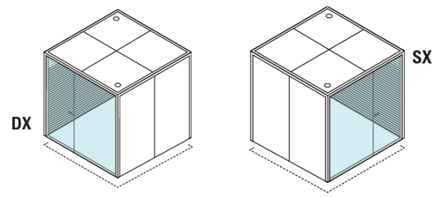


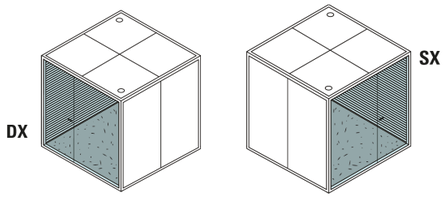


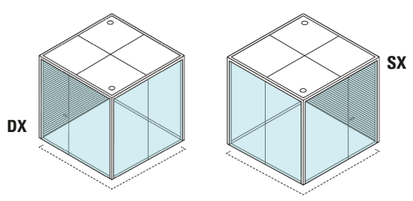


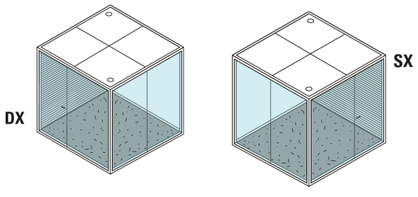


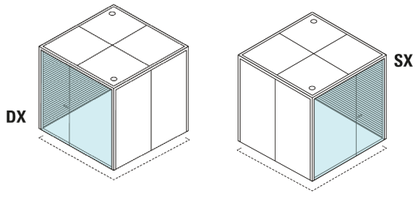
240 X 240 CM

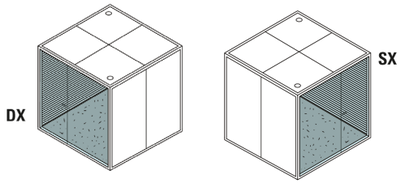




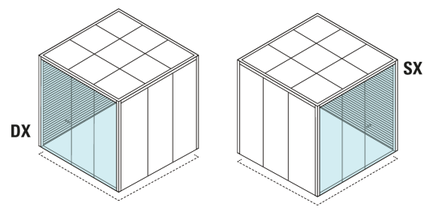


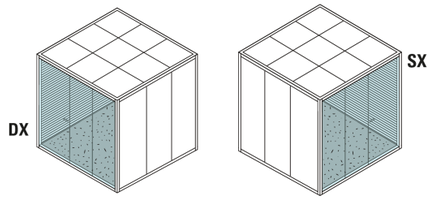


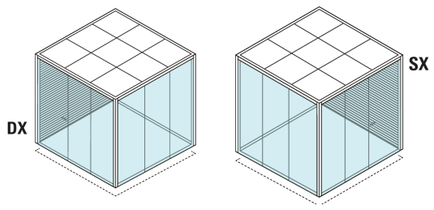


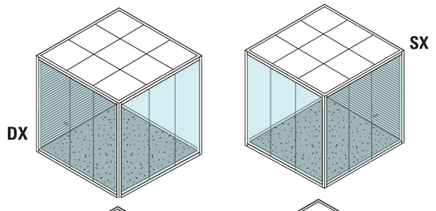


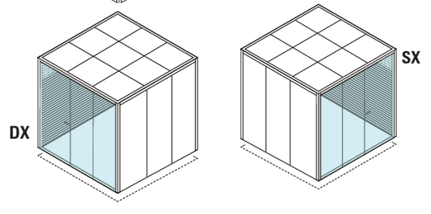
300 X 300 CM

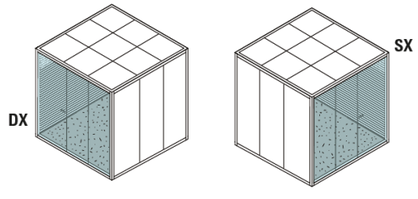




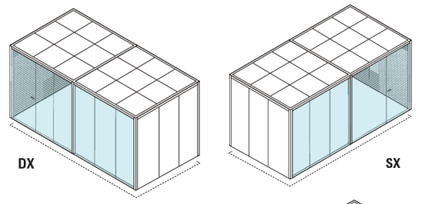




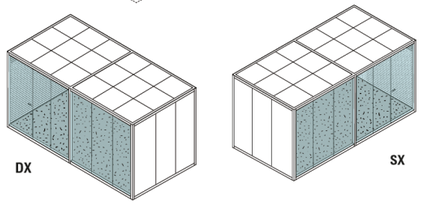




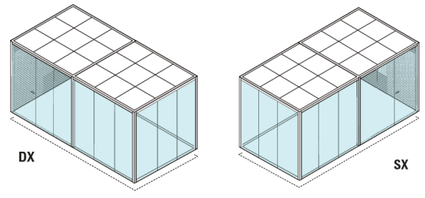
300 X 607 CM



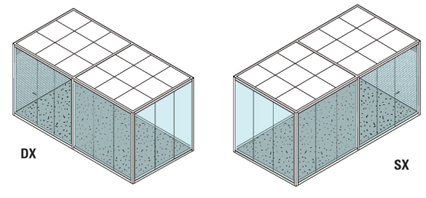
2 BLANK WALLS
2 GLASS SIDES
NO FLOORING



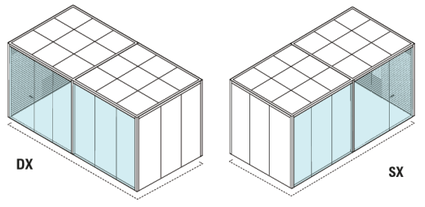
2 BLANK WALLS
2 GLASS SIDES
WITH FLOORING



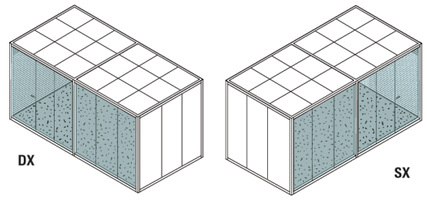
1 BLANK WALL
3 GLASS SIDES
NO FLOORING



1 BLANK WALL
3 GLASS SIDES
WITH FLOORING



3 BLANK WALL
1 GLASS SIDES
NO FLOORING



3 BLANK WALL
1 GLASS SIDES
WITH FLOORING

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STRUCTURE

Acoustic Room is a self-supporting module available in 4 different sizes (interior measurements):

L120 cm x P240 cm x H240 cm,
L240 cm x P240 cm x H240 cm,
L300 cm x P300 cm x H240 cm,
L607 cm x P300 cm x H240 cm.

Each module can be fitted with flooring (dark grey moquette) or rest directly on the existing floor, in which case the structure must be fixed to the floor.

Each Acoustic Room features **at least one blank wall**, while the remaining sides can be selected by the client among glass or blank walls.

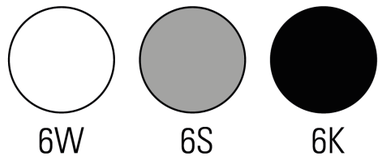
The model L120x240cm with only 2 blank walls, no glass sides and no flooring, MUST be anchored to an exhisting wall in order to guarantee stability.

The structure of Acoustic Room is comprised of painted steel profiles (70 mm x 70 mm), to which the glass or blank wall panels are fixed.

These profiles allow for cables management, an usefull feature especially in modules with flooring included.

The profiles of the structure are available in 3 different finish:

- 6W Matt White-painted metal RAL 9016
- 6S Mèta Silver-painted metal
- 6K Matt Black-painted metal RAL 9005


6W 6S 6K

Dark grey moquette

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GLASS

The glass walls can be either single- or double-glazed.

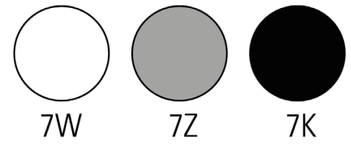
In both cases, a laminated “CLEAR” 5+5mm glass is used with a 1.52mm thick acoustic PVB sheet in between.

Isolation parameters (acording to Iwallspace ETA Certificate):
- single glazed walls: 34 dB
- double glazed walls: 42dB

The glasses are framed with anodized aluminium profiles that are anchored directly to the sexternal structure profiles.

These profiles always match the external profile finish of the structure, therefore the aluminium finish are accordingly:

- 7V Matt White-painted alluminium RAL 9016
- 7Z Oxidized aluminium 0
- 7K Matt Black-painted aluminium RAL 9005



On the L240, L300 or L607-cm side, the modules can include a hinged or sliding glass door complete with lock.

Sliding door handle

Hinged door handle

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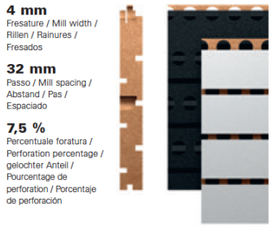
BLANK SIDE

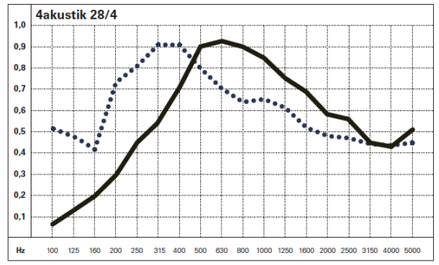
All blank **internal surfaces** are made of 4akustik 28/4 fire-resistant slats (rated B-s1, d0), with a layer of mineral wool on the back. The counter ceiling is always covered with our 4akustik slats, providing continuity with the blank wall.

The 4akustik slats are made of our high quality E1 (low formaldehyde emissions) MDF finished with melamine facing papers from our production center as well.

There are three different melamine finish:
- BN Snow white melamine
- B5 Tibet white melamine
- RL Galles Oak melamine

The acoustic performances of the panels are:



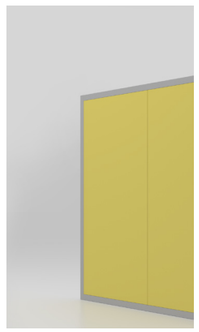


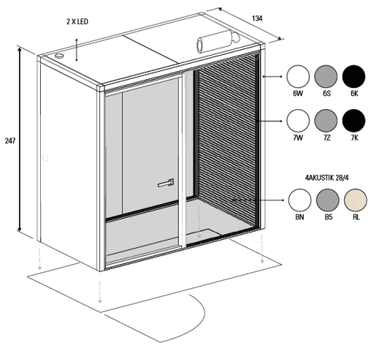
Hz	▬	●●●●
100	0,07	0,52
125	0,15	0,48
160	0,20	0,42
200	0,30	0,73
250	0,45	0,81
315	0,57	0,91
400	0,72	0,91
500	0,90	0,80
630	0,93	0,71
800	0,90	0,64
1000	0,86	0,67
1250	0,77	0,62
1600	0,69	0,52
2000	0,59	0,49
2500	0,55	0,48
3150	0,45	0,45
4000	0,43	0,44
5000	0,51	0,46

	▬
$\alpha_{w\text{-}D_{class}}$	0,60 (M)
NRC	0,70
SAA	0,70

	●●●●
α_w	0,55 (LM)
NRC	0,70
SAA	0,70

The **exterior panels** are finished with vertical melamine in the same finish of the inner 4akustik slats or with fabric-covered panels according to our range of cat. C - Wool colors.





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LIGHTS

The Acoustic room includes also as a standard feature:

- 2 spotlight Led standard lighting for modules 120x240cm
- 4 spotlight Led standard lighting for modules 240x240 cm and 300x300
- 8 spotlight Led standard lighting for modules 300x607cm

Lights are provided with a wireless remote control with ON/OFF instructions that can be easily attached both on the glass sides or on the blank walls. Dimensions: 40 mm x 40 mm h 10 mm.

Light finish: MATT WHITE

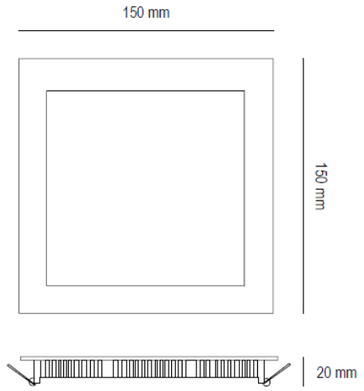
MAX WATTAGE: LED SMD 9W

LUMEN: 630-700lm

VOLTAGE: 100-240 VAC

OPTIC: 180°

IP RATE: IP54



Remote control

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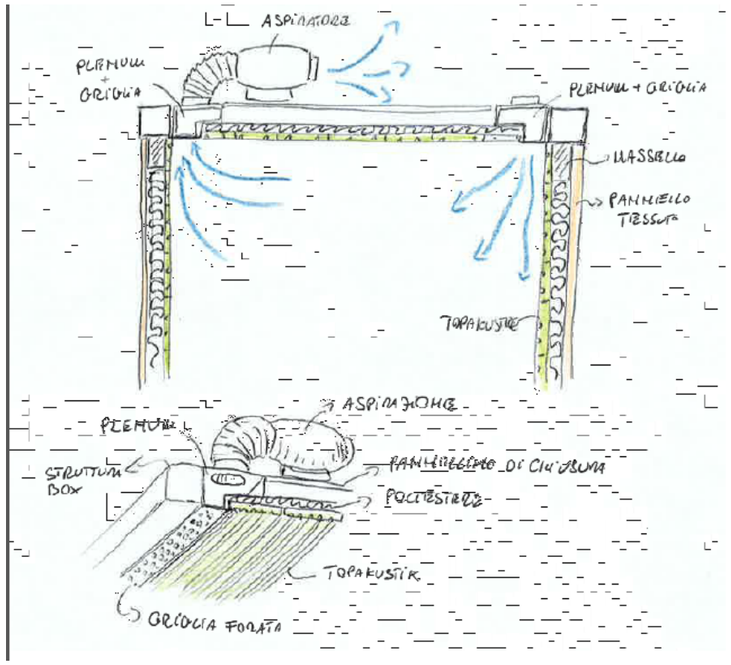
VENTILATION



Aspirator

To the sides of the counter-ceiling, **2 openings** are fitted for the air inlet and outlet, connected to air recirculation system positioned on the top of the Acoustic Room.

CROWD INDEX WITHIN MEETING ROOMS:

It's stated in the European normatives, that the allowed crowd index within meeting rooms is 0,6 people/sqm.
Therefore in our modules the number of people that can easily enjoy the use of our Acoustic room at the same time is:

- 120x240 H240 (inner volume) = 0,6 x 2,88 sqm = 1,7 people
- 240x240 H240 (inner volume) = 0,6 x 5,76 sqm = 3,5 people
- 300x300 H240 (inner volume) = 0,6 x 9 sqm = 5,4 people
- 300x607 H240 (inner volume) = 0,6 x 18 sqm = 10,8 people

VENTILATION POWER:

It's stated in the European normatives that in closed areas such as meeting rooms, the amount of air flowing in the closed space must be of 36cubic meters/h for each person. Therefore, in our Acoustic Room the flow rates are:

- 120x240 H240 (inner volume) = 1,7 x 36 m3/h = 62 m3/h - 2 people(max)= 80 m3/h engine TD 160/100 flow range 140-180 m3/h
- 240x240 H240 (inner volume) = 3,5 x 36 m3/h = 126 m3/h - 4 people(max)= 144 m3/h engine TD 250/100 flow range 200-240 m3/h
- 300x300 H240 (inner volume) = 5,4 x 36 m3/h = 194,4 m3/h - 5 people(max)= 180 m3/h engine TD 250/100 flow range 200-240 m3/h
- 300x607 H240 (inner volume) = 10,8 x 36 m3/h = 388,8 m3/h - 10 people(max)= 360 m3/h engine TD 250/100 flow range 400-480 m3/h

People stay in the Acoustic Room is intended to be for a limited time and not for the entire working day.

The air ventilation system implemented in the Acoustic Room is characterized by **2 speeds**, easily selectable through a switch positioned on the blank walls near the door access.

Low speed for more comfort and high speed for more spare air.

The aspirator is positioned on the overpart of the ceiling and it's secured with a metal carter in the same finish of the structure's profiles. This feature, along with the position of the aspirator, asure the invisibility of the entire system to the eyes of the users.

We recommend contacting an electrician for the connection of the electrical parts during instalaltion.

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ACCESSORIES AND INSTALLATION

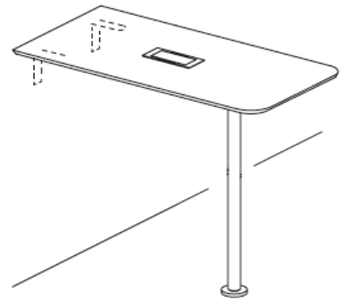
As an optional feature, the Acoustc Room can be fitted with a high peninsula table anchored to the blank wall by means of the L-shaped hardware.

The table top is made with a 28mm MDF panel.

The edges are shaped in a 45° angle.

The top as a standard has included a round multi-socket with 1 schuko and 2 USB.

The socket could be replaced by a single top access.



INSTALLATION TERMS

The Acoustic Room has to be installed by Fantoni fitters or a team of fitters instructed by Fantoni due to its complex technical elements.

Fitting process for the installation of one Acousti Room needs approximately 8 hours when processed by 2 expert fitters.

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