ABSTRACT®

TUNED LF ABSORPTION PANEL

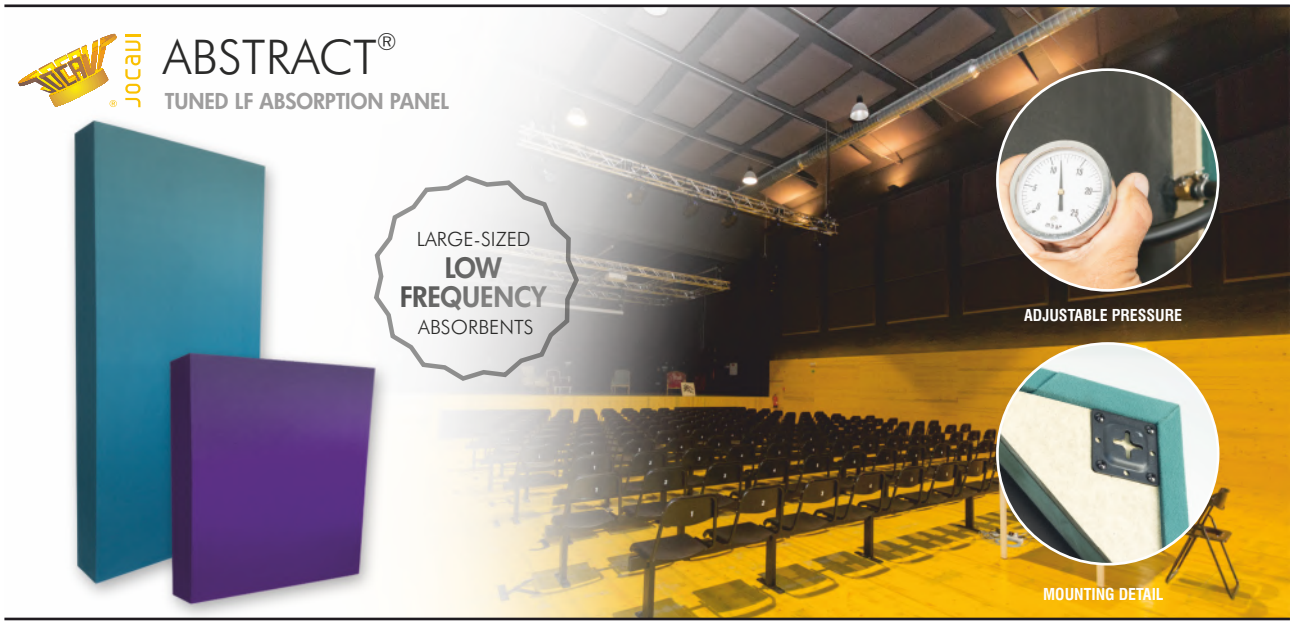


Image of 200x100x20cm model **Ref.:BSW200** and 100x100x20cm model **Ref.:BSW100**(on the left) and **Ref.:BSW200** applied (ambient image).

DESCRIPTION

The creation of this bass trap patent and its manufacturing method consists of a very solid box, on which a bitumen elastic layer on each of the two sides is applied. The resonator's absorbing surfaces are thin massive plates: the front one with high elasticity and low internal friction and the back plate with less elasticity causing a high internal friction. This combination creates an all-over solid connection through the metal box between the front and back plates. This compound forms a box sealed all around, closed to the air pressure, but opened to the sound. The front and the back plates do not prevent the entering of low frequencies from going inside the box interacting with a different air pressure. Like a tunable Helmholtz resonator, the membrane is excited by the resonance frequency and it vibrates so strong that the weight of the limp mass pushes and pulls the air cushion inside the box.

The ABSTRACT® resonance box formula comprises two limp elastic masses separated by the distance between them, benefiting the isothermal compression, thus providing better sensibility by absorbing the low-end frequencies at very low sound pressure levels. This system is very sensitive, however, the louder the sound system is, pumping the volume up, the more absorption you can get. Consequently it is an incredible high-efficiency low-frequency absorber panel.

By using a simple air compressor device you are free to vary and change the internal air pressure, hence obtaining various different frequencies of absorption. The distance between the membranes varies according to the internal air pressure difference; for example with positive air pressurization we have a bigger distance and the air pressure superior to the original exterior pressure. As result, the frequency varies in accordance with the mentioned frequencies pattern.

In a more or less intense way, the problem of the low-frequencies control is widespread in most room types; This model is ideal for Concert venues, Auditoriums, Pavilions, studios, music rooms; these are the type of rooms that can greatly benefit from the integration of these acoustic modules, once they are the most effective and accurate way to intervene in solving the problems of low-frequencies.

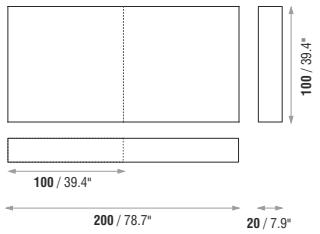
MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
BSW200	**200 cm** (78.7 in)	**100 cm** (39.4 in)	**20 cm** (7.9 in)	**45 Kg** (99.21 lbs)
BSW100	**100 cm** (39.4 in)	**100 cm** (39.4 in)	**20 cm** (7.9 in)	**24 Kg** (52.91 lbs)

FEATURES

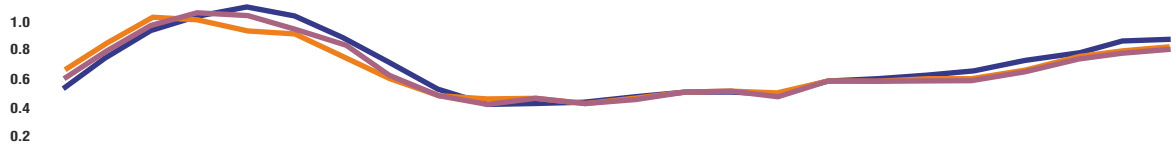
- Uses 60% of recycled materials and 100% recyclable.
- Fire-resistance: Euroclass B (similar to old M1).
- Variable tuned: 80Hz, 100Hz or 125Hz [>50Hz;<250Hz].
- Peak absorption at Low-frequency Average:
  - nominal pressure = **0.85/m²** / 80Hz
  - 8 mBar = **0.86/m²** / 100Hz
  - 14 mBar = **0.88/m²** / 125Hz.
- Package and Installation: individual and accessories included.
- Ideal for mid and large size halls.

TECHNICAL DRAWINGS



ABSORPTION COEFFICIENT

	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k		
αS	0.56	0.76	0.94	1.04	1.10	1.04	0.88	0.72	0.52	0.43	0.44	0.45	0.49	0.55	0.55	0.53	0.56	0.59	0.61	0.65	0.70	0.77	0.83	0.84	**0.88**	14 mBar PRESSURE
αS	0.60	0.79	0.97	1.08	1.05	0.94	0.84	0.63	0.47	0.43	0.46	0.44	0.49	0.56	0.55	0.52	0.57	0.58	0.60	0.60	0.67	0.74	0.79	0.81	**0.86**	8 mBar PRESSURE
αS	0.66	0.84	1.04	1.02	0.95	0.92	0.76	0.60	0.48	0.45	0.46	0.44	0.48	0.55	0.56	0.54	0.57	0.58	0.59	0.59	0.66	0.73	0.78	0.80	**0.85**	NORMAL PRESSURE
Hz																									LF AVERAGE [>50Hz;<250Hz]	



ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654.

Values [<100Hz and > 5K] are Non Standard Values.

STANDARD FABRIC COLOURS

BEIGE	YELLOW	ORANGE	RED	PURPLE	LIGHT BLUE	BLUE	GREEN	BROWN	LIGHT GREY	GREY	BLACK	WHITE	
Similar to RAL 1011	Similar to RAL 1003	Similar to RAL 2001	Similar to RAL 3003	Similar to RAL 4007	Similar to RAL 5010	Similar to RAL 5013	Similar to RAL 6028	Similar to RAL 8019	Similar to RAL 7001	Similar to RAL 7015	Similar to RAL 9005	Similar to RAL 9003	motif PRINTED IMAGE FINISHING

IMPORTANT NOTICES

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- Colours may vary due to raw-material suppliers' changes and some differences may occur in tonal range.
- Wood and Fabric products are highly susceptible to change its appearance with humidity and temperature. Close attention must be paid to the storage conditions and the acclimatization before, during and after the installation.
- Typical Indoor Comfort Standards state a temperature range of 20ºC - 27ºC (68ºF - 81ºF), and a relative humidity of less than 60%. These would be considered as normal operational levels of JOCAVI® products' range.
- Despite all the standard sizes of all products, this model can be customised upon previous consultation. Sizes may vary slightly (+/-3mm) due to their production method and some inherent raw-materials characteristics.

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