

**KIT**

STAIDTREAT  
**BOX**  
SYSTEM

# JOCAVI<sup>®</sup> KITBOX

The market of musical production and home-cinemas in small rooms has been one of the fastest growing markets.

Mindful of this segment's needs, JOCAVI<sup>®</sup> features acoustic treatment products and solutions which are practical and accessible to all.

These are convincing ideas for those customers who wish to solve the acoustics of their room with a practical sense and a controlled budget.

To choose the room dimensions is a good way to start the design of a music room, followed by the insertion of the acoustic treatment panels and subsequent installation of the sound or video equipment.

Particular attention must be given to the loudspeakers, since a suitable framing with the listener is required for a good performance of the system. Various software, namely multi-dimensional tools, may be used for optimisation as they can automatically determine the best locations for the sources and the listener. The next step is to optimise the acoustic components in order to interconnect the listener with the loudspeakers.

By observing these steps, your room will have a good distribution of modal pressure. Besides, it will be acoustically balanced and ready to receive from the smoothest to the strongest percussion sounds from your sound system.

This way, the modal emphasis and the SBIR (speaker-boundary interference response) are simultaneously minimised to produce the best response from the room.

To facilitate the design of this type of rooms, JOCAVI<sup>®</sup> developed these KITBOX which correspond to different room sizes in a do-it-yourself scheme.

The KITBOX are easy to assemble and include all the necessary accessories and mounting instructions at anyone's reach. These rooms were acoustically simulated with the dimensions mentioned in each case and later verified with acoustic analyses. They may serve as a comparison to find a solution for your space.

These are practical and efficient ideas for those customers who are interested in advanced technology when wishing to add a solution to the acoustic treatment of a room.

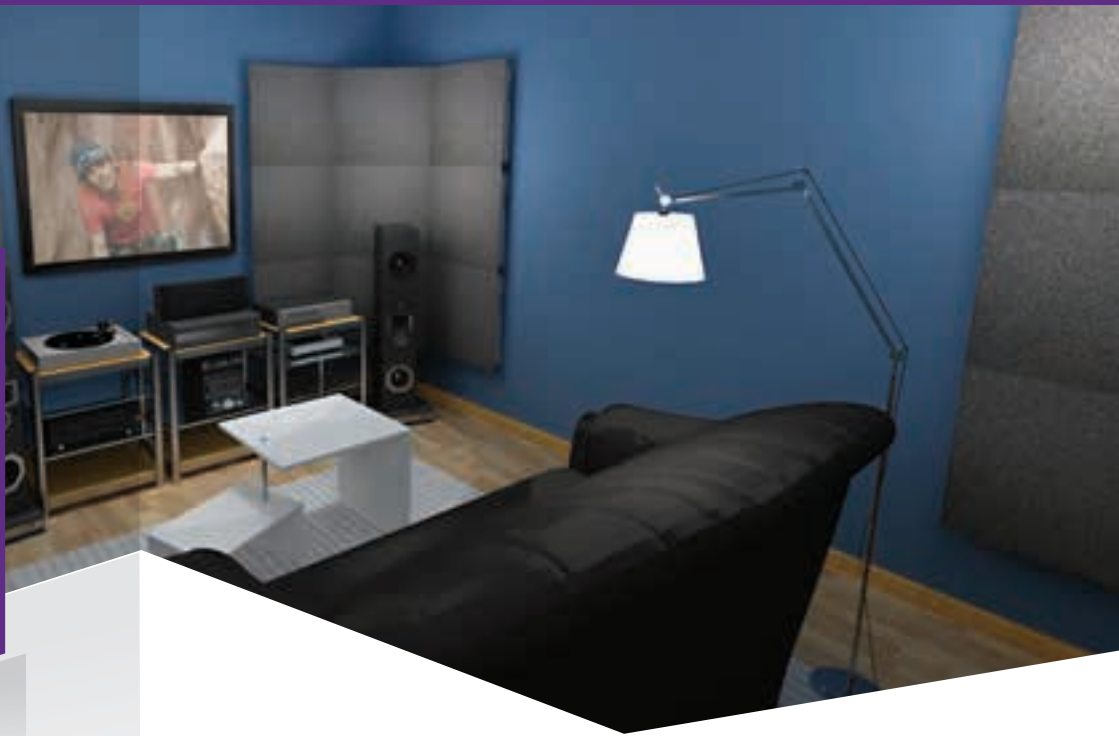
These are proposals for customers who look for practical solutions coupled with a rather refined aesthetic effect, with the visual display of all the acoustic products.

**59%**

Calculated RT  
reduction

**22%**

Good RT balance  
time/frequency



# KITBOX 01

## DESCRIPTION

The STAIDTREAT is an innovative modular system designed to aesthetically conceal any rooms acoustic treatment in a very sober manner. The finishing plate made of pressed mineral sand is similar for the three models. As the engineering portion of each model, the STAIDTREAT consists of three different models with very different acoustic absorption curves and performance. The semi-transparent mineral granulate plate also combines the absorption and unidirectional micro-diffusion features. The different specificities of each model are well combined to fit the room's requirements. This range of panels is particularly meant for small and medium-sized rooms that require an outstanding acoustic balance. The KITBOX set has been created for home-cinemas, studios, conference halls and auditoriums providing them with a very pleasant atmosphere.

**Contact us for more information.**



**First Reflections**



**Reverberation times**



**Room modes**



**Comb filter effect**



**Boundary Interference**



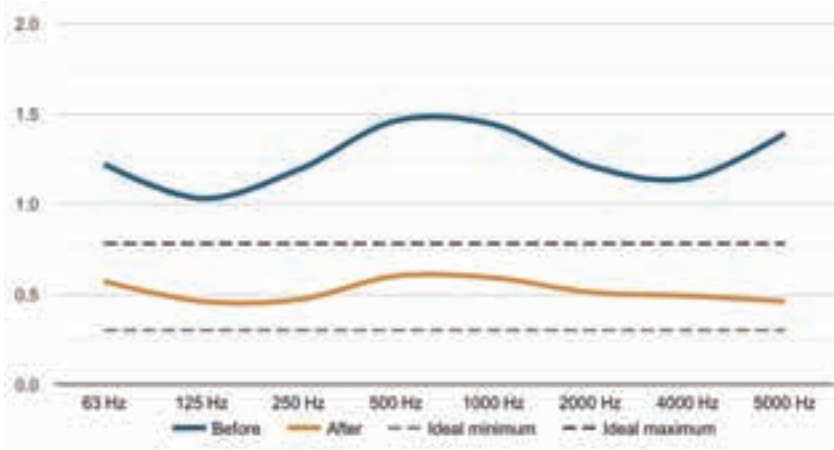
**Acoustic Balance**

## FEATURES

- For rooms with an area between: 13m<sup>2</sup> and 17m<sup>2</sup> (139.93 ft<sup>2</sup> and 182.99 ft<sup>2</sup>)
- For rooms with volumes between: 35m<sup>3</sup> and 45m<sup>3</sup> (1236 ft<sup>3</sup> and 1589 ft<sup>3</sup>)
- For use in small-sized home-theatre rooms, home-studios, Hi-fi rooms or instrument rooms
- Values were obtained by simulation in specific JAS software and later confirmed through acoustic analyses in the rooms
- The simulated and tested rooms are totally empty, and only the referred KITBOX 01 acoustic panels
- Traditional room with dimensions (L,W,H): 4.31m/3.58m/2.80m (169.7"/140.9"/110.2")
- Walls: masonry with painted fine stuff and a wooden door
- Ceiling: 12mm (0.5") - thick plaster
- Floor: natural floating parquet



# JAS ACOUSTIC REPORT



**1.26s**  
before treatment  
RT average

**0.52s**  
after treatment  
RT average

**86dB**  
before SPL noise  
reduction from 90dB

**78dB**  
after SPL noise  
reduction from 90dB

**59%**  
calculated  
RT reduction

**22%**  
Excellent RT balance  
time/frequency

## USED PRODUCTS



**12 x STAITREAT BXA**  
BASSTRAP



**9 x STAITREAT BXW**  
BASSTRAP



**12 x STAITREAT WBA**  
ABSORBENT PANEL

## PACKAGING

PRODUCT	SIZE	UNITS	BOXES	BOX SIZE	BOX WEIGHT	ABSORBER	DIFFUSOR	TUNED AB.
JOCAVI STAITREAT BXA	60x60x30cm (23.6" x 23.6" x 11.8")	12	6	65x65x35cm (25.6" x 25.6" x 13.8")	12kg (26lbs 8oz)			✓
JOCAVI STAITREAT BXW	60x60x8cm (23.6" x 23.6" x 3.1")	9	3	65x65x35cm (25.6" x 25.6" x 13.8")	17kg (37lbs 0oz)			✓
JOCAVI STAITREAT WBA	60x60x8cm (23.6" x 23.6" x 3.1")	12	3	65x65x35cm (25.6" x 25.6" x 13.8")	17kg (37lbs 0oz)	✓		

## AVAILABLE FINISHINGS

### STAITREAT Granulated Material



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- Colours may vary due to raw-material suppliers' changes and some differences may occur in tonal range.
- 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.
- Shipping options might affect the availability of included adhesives.



**60%**  
Calculated RT  
reduction

**22%**  
Good RT balance  
time/frequency

# KITBOX 02

## DESCRIPTION

The STAIDTREAT is an innovative modular system designed to aesthetically conceal any room's acoustic treatment in a very sober manner. As the engineering portion of each model, the STAIDTREAT consists of three different models with very different acoustic absorption curves and performance. The semi-transparent mineral granulate plate also combines the absorption and unidirectional micro-diffusion features. The different specificities of each model are well combined to fit the room's requirements. This range of panels is particularly meant for small and medium-sized rooms that require an outstanding acoustic balance. The KITBOX set has been created for home-cinemas, studios, conference halls and auditoriums providing them with a very pleasant atmosphere.

**Contact us for more information.**



**First Reflections**



**Reverberation times**



**Room modes**



**Comb filter effect**



**Boundary Interference**



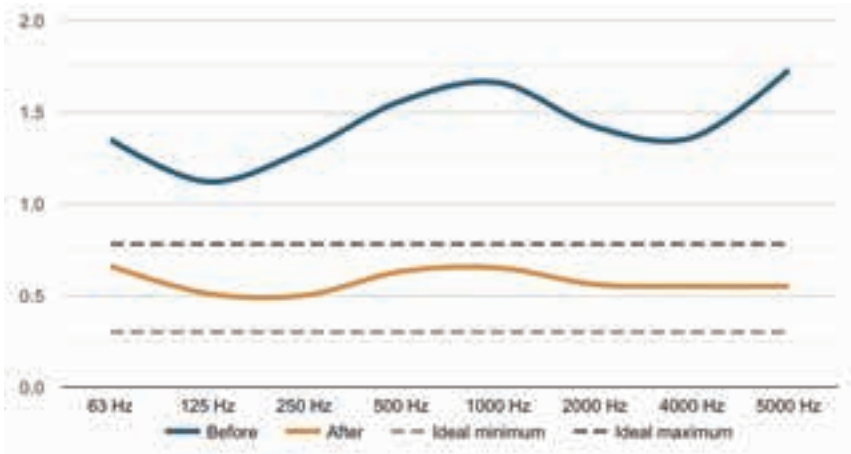
**Acoustic Balance**

## FEATURES

- For rooms with an area between: 17m<sup>2</sup> and 24m<sup>2</sup> (183ft<sup>2</sup> and 258 ft<sup>2</sup>)
- For rooms with volumes between: 45m<sup>3</sup> and 58m<sup>3</sup> (1589ft<sup>3</sup> and 2048ft<sup>3</sup>)
- For use in small-sized home-theatre rooms, home-studios, Hi-fi rooms or instrument rooms
- Values were obtained by simulation in specific JAS software and later confirmed through acoustic analyses in the rooms
- The simulated and tested rooms are totally empty, and only the referred KITBOX 02 acoustic panels
- Traditional room with dimensions (L,W,H): 5.82m/4.00m/2.50m (229.1"/157.5"/98.4")
- Walls: masonry with painted fine stuff and a wooden door
- Ceiling: 12mm (1/2") - thick plaster
- Floor: natural floating parquet



# JAS ACOUSTIC REPORT



**1.44s**  
before treatment  
RT average

**0.58s**  
after treatment  
RT average

**85dB**  
before SPL noise  
reduction from 90dB

**77dB**  
after SPL noise  
reduction from 90dB

**60%**  
calculated  
RT reduction

**22%**  
Excellent RT balance  
time/frequency

## USED PRODUCTS



**12 x STAITREAT BXW**  
BASSTRAP



**12 x STAITREAT BXW**  
BASSTRAP



**18 x STAITREAT WBA**  
ABSORBENT PANEL

## PACKAGING

PRODUCT	SIZE	UNITS	BOXES	BOX SIZE	BOX WEIGHT	ABSORBER	DIFFUSOR	TUNED AB.
JOCAVI STAITREAT BXW	60x60x30cm (23.6" x 23.6" x 11.8")	12	6	65x65x35cm (25.6" x 25.6" x 13.8")	12kg (26lbs 8oz)			✓
JOCAVI STAITREAT BXW	60x60x8cm (23.6" x 23.6" x 3.1")	12	4	65x65x35cm (25.6" x 25.6" x 13.8")	17kg (37lbs 0oz)			✓
JOCAVI STAITREAT WBA	60x60x8cm (23.6" x 23.6" x 3.1")	18	5	65x65x35cm (25.6" x 25.6" x 13.8")	17kg (37lbs 0oz)	✓		

## AVAILABLE FINISHINGS

### STAITREAT Granulated Material



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- 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.
- Shipping options might affect the availability of included adhesives.

**76%**

Calculated RT  
reduction

**23%**

Good RT balance  
time/frequency

## KITBOX 03

### DESCRIPTION

The JOCAVI™ KIT BOX 03 has been created for rooms with an area between 17m<sup>2</sup> and 30m<sup>2</sup> (183ft<sup>2</sup> and 323ft<sup>2</sup>), so small or medium-sized rooms such as home-cinema rooms, home-studios and rehearsal rooms.

JOCAVI™ KIT BOX 03 it is composed of STAIDTREAT acoustic modules which consists of three different models with very different acoustic features though with the same appearance, namely: STAIDTREAT BXA as a Low-frequency absorbent tuned at 80Hz, the BXW as a Low-frequency absorbent tuned at 160Hz and the WBA, which is a broad band mid-high absorbent.

As a whole, these three different specificities provide an outstanding acoustic balance, thus the resulting aesthetic look is a light and very pleasant design.

The finishing plate is similar to the three options and conceals the remaining engineering portion of each model. This pressed mineral granulate plate also combines absorption with unidirectional micro-diffusion features.

**Contact us for more information.**



**First Reflections**



**Reverberation times**



**Room modes**



**Comb filter effect**



**Boundary Interference**



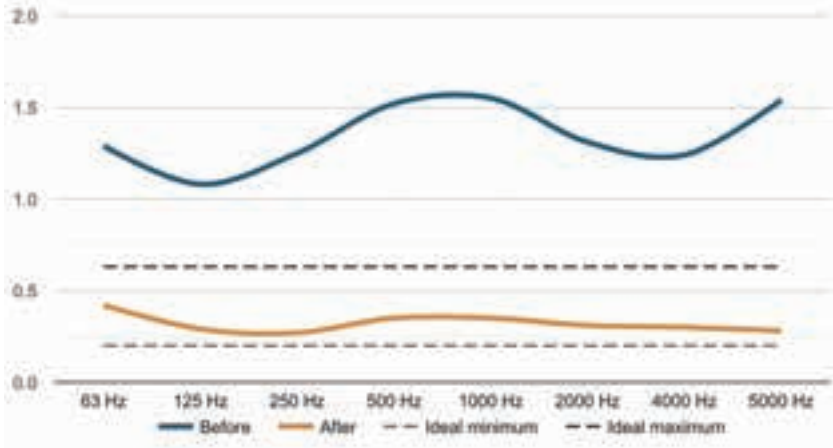
**Acoustic Balance**

### FEATURES

- For rooms with an area between: 17m<sup>2</sup> and 30m<sup>2</sup> (183ft<sup>2</sup> and 323ft<sup>2</sup>)
- For rooms with volumes between: 58m<sup>3</sup> and 90m<sup>3</sup> (2048ft<sup>3</sup> and 3178ft<sup>3</sup>)
- For use in small-sized home-theatre rooms, home-studios, Hi-fi rooms or instrument rooms
- Values were obtained by simulation in specific JAS software and later confirmed through acoustic analyses in the rooms
- The simulated and tested rooms are totally empty, and only the referred KITBOX 03 acoustic panels
- Traditional room with dimensions 4.90m/3.60m/2.80m (192.9"/141.7"/110.2") or other dimensions until 30m<sup>2</sup> (322.92 ft<sup>2</sup>)
- Walls: masonry with painted fine stuff and a wooden door
- Ceiling: 12mm (1/2") - thick plaster
- Floor: natural floating parquet



# JAS ACOUSTIC REPORT



**1.35s**  
before treatment  
RT average

**0.32s**  
after treatment  
RT average

**85dB**  
before SPL noise  
reduction from 90dB

**75dB**  
after SPL noise  
reduction from 90dB

**76%**  
calculated  
RT reduction

**23%**  
Excellent RT balance  
time/frequency

## USED PRODUCTS



**12 x STAITREAT BXA**  
BASSTRAP



**34 x STAITREAT BXW**  
BASSTRAP



**37 x STAITREAT WBA**  
ABSORBENT PANEL

## PACKAGING

PRODUCT	SIZE	UNITS	BOXES	BOX SIZE	BOX WEIGHT	ABSORBER	DIFFUSOR	TUNED AB.
JOCAVI STAITREAT BXA	60x60x30cm (23.6" x 23.6" x 11.8")	12	6	65x65x35cm (25.6" x 25.6" x 13.8")	12kg (26lbs 8oz)			✓
JOCAVI STAITREAT BXW	60x60x8cm (23.6" x 23.6" x 3.1")	34	9	65x65x35cm (25.6" x 25.6" x 13.8")	17kg (37lbs 0oz)			✓
JOCAVI STAITREAT WBA	60x60x8cm (23.6" x 23.6" x 3.1")	37	10	65x65x35cm (25.6" x 25.6" x 13.8")	17kg (37lbs 0oz)	✓		

## AVAILABLE FINISHINGS

### STAITREAT Granulated Material



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- 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.
- Shipping options might affect the availability of included adhesives.





**76%**  
Calculated RT  
reduction

**23%**  
Good RT balance  
time/frequency

# KITBOX 03 SPEAKERS

## DESCRIPTION

The STAIDTREAT KITBOX 03.SP (with speakers inside), is an innovative modular acoustic treatment method, which combines with high quality performance speakers. The speakers are placed inside the absorbent boxes of the WBA /BXA models. This set of acoustics and public addressed devices is designed to aesthetically conceal acoustic treatment with speakers providing a good sound intelligibility, besides making technology imperceptible to eyesight.

This system was essentially planned for 7.1 and 5.1 home-theatres surround systems, but it is also advisable for conference rooms, restaurants and bars, public spaces and for background music or speech purposes. It is composed by the two-way loudspeaker mounted inside the acoustic panel and by a self-amplified Subwoofer to be placed on the floor of the room. It has been created for small and mid-sized home-cinema rooms. It is a discrete system that combines acoustic treatment and the embedded speakers. The approach consists on adjusting the number of the modules to the room dimensions.

All packs are supplied with assembly instructions, as well the necessary mounting accessories to apply the acoustic modules. Surround sound is the idea of engaging a listener in sound, just like a movie theater. Sound is half of the importance of the entertainment experience and the speaker placement is essential to experiencing the true impact of movies and music.

**Contact us for more information.**



**First Reflections**



**Reverberation times**



**Room modes**



**Comb filter effect**



**Boundary Interference**



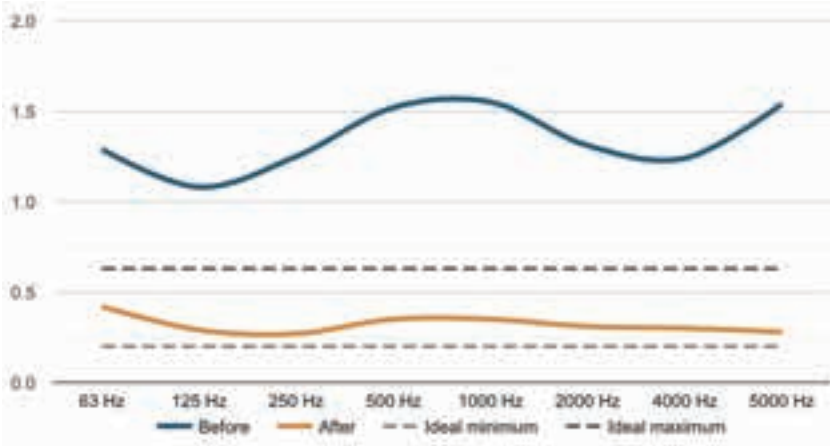
**Acoustic Balance**

## FEATURES

- For rooms with an area between: 17m<sup>2</sup> and 30m<sup>2</sup> (183ft<sup>2</sup> and 323ft<sup>2</sup>)
- For rooms with volumes between: 58m<sup>3</sup> and 90m<sup>3</sup> (2048ft<sup>3</sup> and 3178ft<sup>3</sup>)
- For use in small-sized home-theatre rooms, home-studios, Hi-fi rooms or instrument rooms
- Values were obtained by simulation in specific JAS software and later confirmed through acoustic analyses in the rooms
- The simulated rooms were tested with all the materials and equipments shown in the images, and the mentioned JOCAVI™ KIT BOX 03 acoustic panels
- Traditional room with dimensions (L,W,H): 4.90m/3.60m/2.80m (192.9"/141.7"/110.2")
- Walls: masonry with painted fine stuff and a wooden door
- Ceiling: 12mm (1/2" - thick plaster
- Floor: natural floating parquet



# JAS ACOUSTIC REPORT



**1.35s**  
before treatment  
RT average

**0.32s**  
after treatment  
RT average

**85dB**  
before SPL noise  
reduction from 90dB

**75dB**  
after SPL noise  
reduction from 90dB

**76%**  
calculated  
RT reduction

**23%**  
Excellent RT balance  
time/frequency

## USED PRODUCTS



**12 x STAITREAT BXA**  
BASSTRAP



**34 x STAITREAT BXW**  
BASSTRAP



**37 x STAITREAT WBA**  
ABSORBENT PANEL

## PACKAGING

PRODUCT	SIZE	UNITS	BOXES	BOX SIZE	BOX WEIGHT	ABSORBER	DIFFUSOR	TUNED AB.
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JOCAVI STAITREAT BXW	60x60x8cm (23.6" x 23.6" x 3.1")	34	9	65x65x35cm (25.6" x 25.6" x 13.8")	17kg (37lbs 0oz)			✓
JOCAVI STAITREAT WBA	60x60x8cm (23.6" x 23.6" x 3.1")	37	10	65x65x35cm (25.6" x 25.6" x 13.8")	17kg (37lbs 0oz)	✓		

## AVAILABLE FINISHINGS

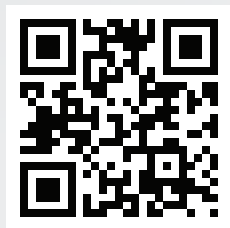
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