

BAFFLESORBA™

Suspended Noise Absorbers



ECONOMICAL AND EFFICIENT NOISE ABSORPTION

BAFFLESORBA™ are lightweight high performance baffles used to absorb noise in buildings.

These are particularly useful in situations where the roof space has a multitude of various services. Not only are excellent acoustic results achieved in this way, but aesthetically innovative solutions are created. Typical uses are in schools, swimming pools, leisure centres, exhibition areas, offices, studios and other internal building areas.

BAFFLESORBA™

Suspended Noise Absorbers

DESCRIPTION

BAFFLESORBA™ suspended noise absorbers are constructed of open-cell melamine resin-based foam. The foam exhibits special qualities such as its intricate three-dimensional web structure composed of thin strands which make the material easy to form. These qualities result in a material that possesses excellent absorption characteristics for optimal noise reduction.

PRODUCT ADVANTAGES

- Safety, because it is free of synthetic and natural mineral fibre, halogens and CFCs
- Optimal noise reduction
- Excellent sound absorption values over a wide range of frequencies
- High degree of light reflectivity

BUILDING MATERIAL CLASSIFICATION

Fire rating is Class 0 in accordance with BS476. The material is available to fulfil especially stringent building material classification requirements. BAFFLESORBA is a soft melamine resin-based foam.

PROPERTIES

- Free of synthetic and natural mineral fibre, halogens and CFCs
- High degree of thermal resistance
- Very low volume weight
- High degree of resistance to ageing
- Open-cell

COLOURS

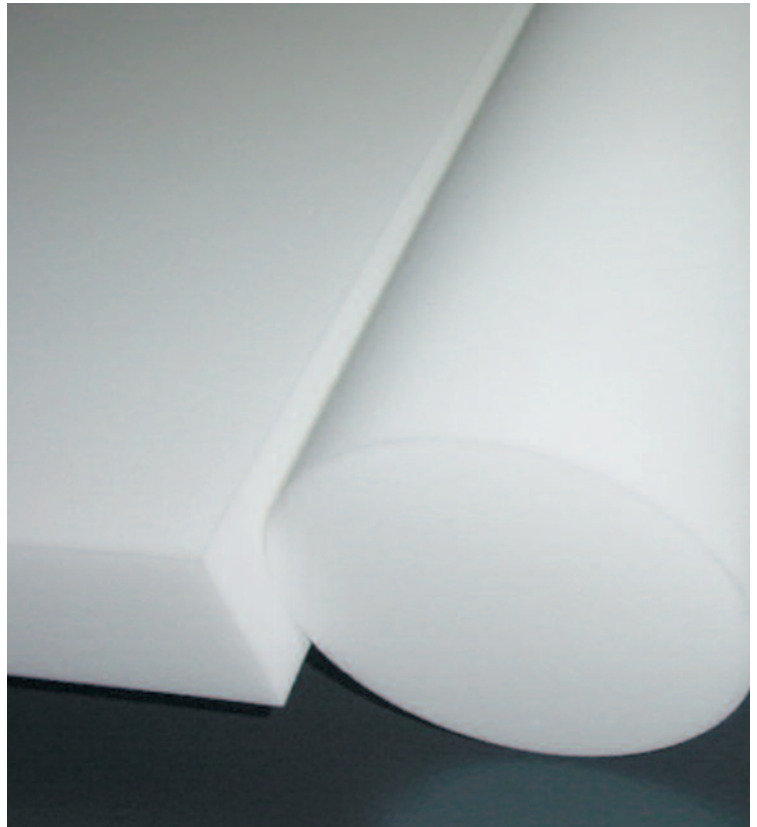
BAFFLESORBA's core material is white. Other colour coating options are available for orders exceeding 100 units. Prior colour sampling is required. Variations in colour cannot be completely excluded.

SERVICE

We work in conjunction with recognised acoustic engineering offices. Upon request, acoustic calculations may be conducted to determine the recommended quantities of material to be utilised.

DISPOSAL

- Easy disposal (may be disposed of as household waste)
- EAK Nr. 120 105 (European waste disposal classification)
- General certificate P-NDS04-291



BAFFLESORBA™ ABSORBER ECO

The innovative ECO hanging system absorber represents a revolution in industrial noise absorption.

The BAFFLESORBA ECO Absorbers are hung in rows by means of steel cables which are suspended horizontally between two walls. The absorbers are strung onto the steel cables from the wall outwards, so there is no need any more for scaffolding during installation.

PRODUCT ADVANTAGES

- Saves money through reduced weight in shipping and installation
- Elimination of the need for scaffolding
- Cost saving solution because of efficient installation system
- Reduced replacement costs due to easy dismantling

DIMENSIONS

BAFFLESORBA Plano Absorber ECO

1250 x 625 x 50mm

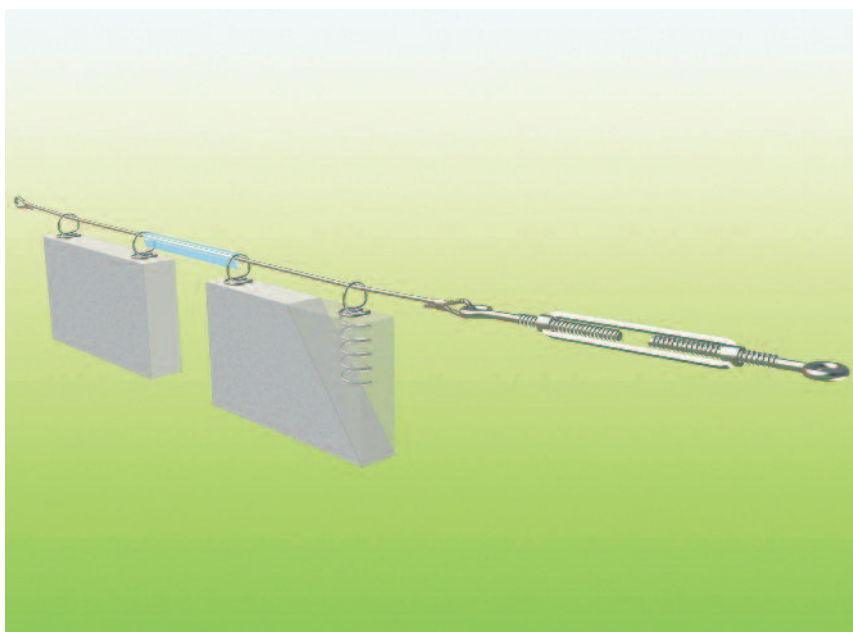
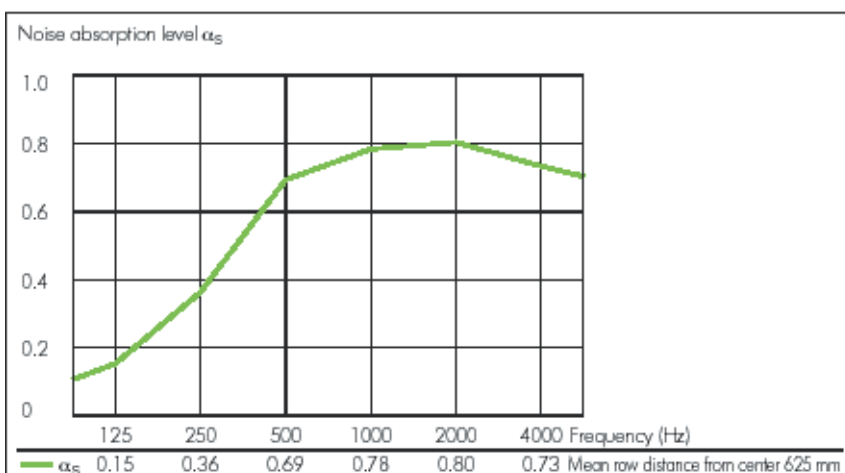
1250 x 410 x 50mm

BAFFLESORBA Wetroom Absorber ECO

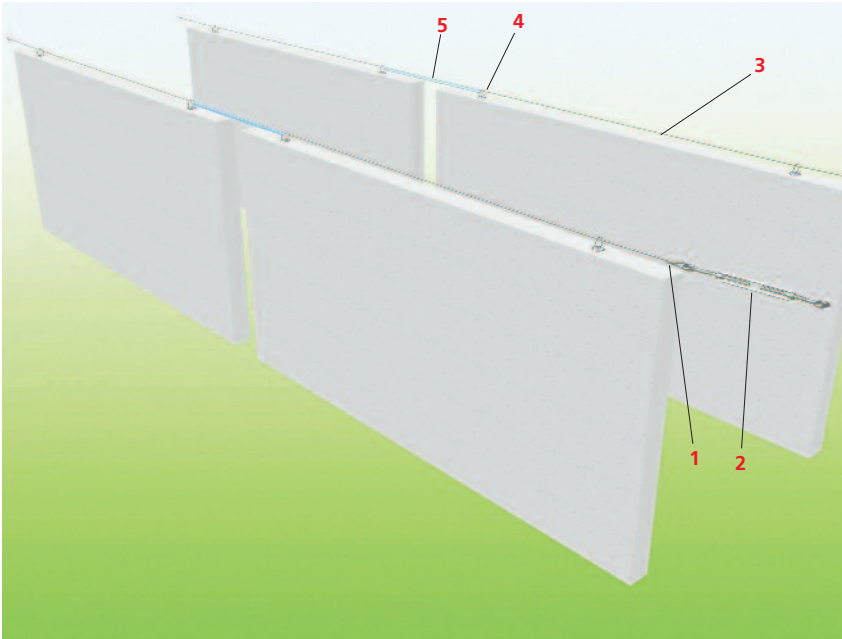
1200 x 600 x 50mm

BAFFLESORBA Rondo Absorber ECO

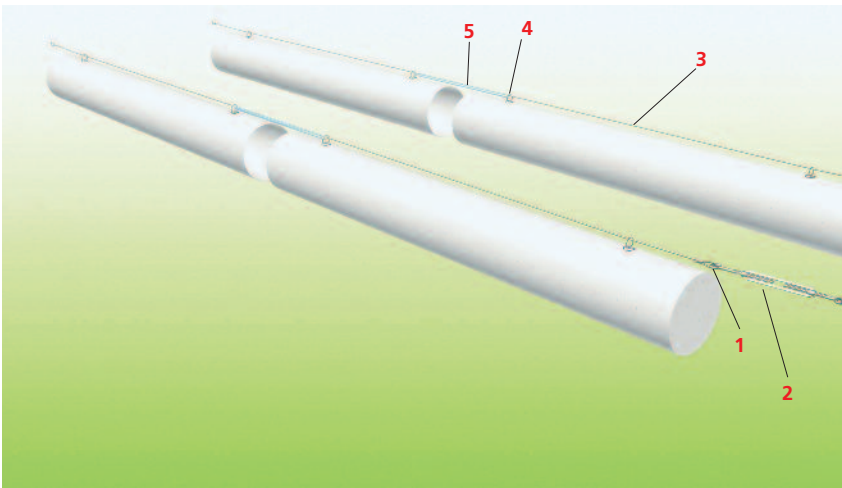
1200 x 150mm diameter



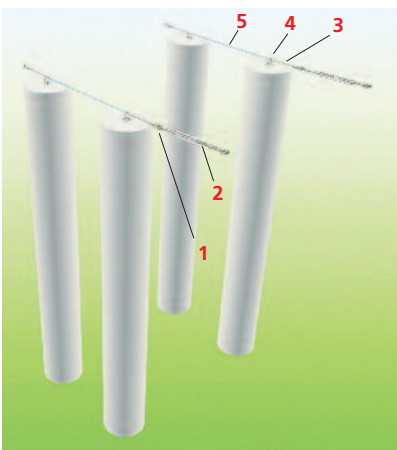
Detail: Illustration of hanging



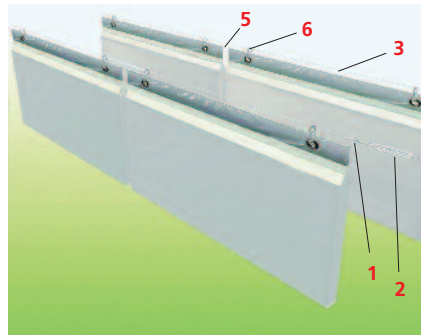
BAFFLESORBA Plano Absorber ECO



BAFFLESORBA Rondo Absorber ECO

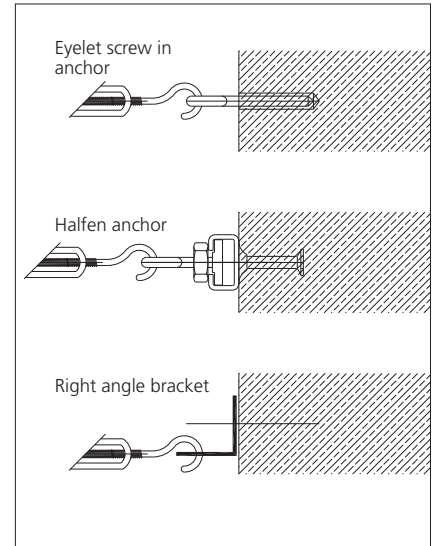


BAFFLESORBA Rondo Absorber ECO



BAFFLESORBA Wetroom Absorber ECO

- 1 BAFFLESORBA cable eye stiffener, galvanised, with BAFFLESORBA cable leading, aluminium, galvanised.
- 2 BAFFLESORBA suspension turn-buckle bolt, galvanised.
- 3 BAFFLESORBA steel cable, galvanised, 2.5mm diameter.
- 4 BAFFLESORBA corkscrew-type suspension eyelet hooks, galvanised.
- 5 BAFFLESORBA spacer, 300mm standard length.
- 6 BAFFLESORBA 's' hook.



Anchoring to wall

INSTALLATION

The anchoring turn-buckle bolt on both ends of the cables are attached to the desired anchoring system (right angle bracket, eyelet screw, Halfen anchor) at the calculated row spacing position and height.

The steel cable is attached to one side complete with the BAFFLESORBA cable eye stiffener and cable leading using the BAFFLESORBA lead-sealing pliers. An additional suspension bolt is recommended for cable lengths exceeding 10 metres. The cables are suspended at the calculated mean centre distance between the rows.

The unattached ends of the steel cable are then equipped with the turn-buckle suspension bolt and the cable eye stiffener and the cable leading is attached, as described in step 2. The turn-buckle bolt is then attached to the wall mount and tightened.

The ECO absorbers, with factory mounted corkscrew suspension eyelet hooks, are hung from the cable. The BAFFLESORBA spacer units are clipped onto the cable between the absorbers. The absorbers and spacers are then manually slid down the cable. The procedure is repeated until the calculated number of absorbers per cable has been strung.

The suspension turn-buckle bolt is then re-tightened to minimise sagging in the cable. In some cases where the cable length requires, an additional support anchor may be required. We recommend using an easy to adjust suspension brace with hook.

BAFFLESORBA™ PLANO T ABSORBER



Noise absorber elements featuring T groove cut for hanging from a 24mm T track (not included). Because of its simple hanging installation, the BAFFLESORBA Plano T Absorber can be installed in a variety of ways and in a variety of application areas where due to structural considerations, it is not possible to adhere absorber material directly to ceilings and walls.

PRODUCT ADVANTAGES

- Cost savings due to easy handling and low weight
- Improvement in architectural acoustics and optimal noise reduction due to exceptionally high level of noise absorption over a wide range of frequencies
- Negligible structural loadings due to low weight

DIMENSIONS

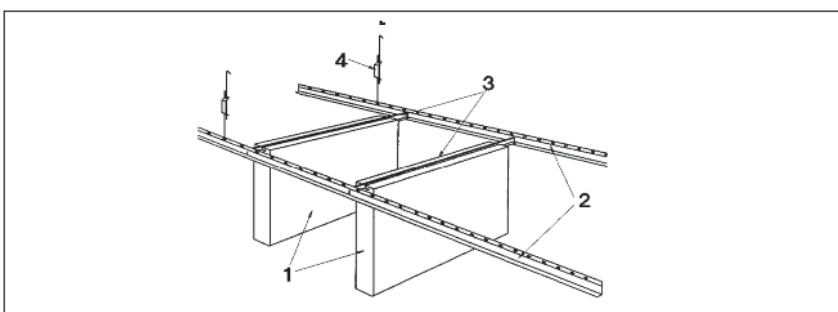
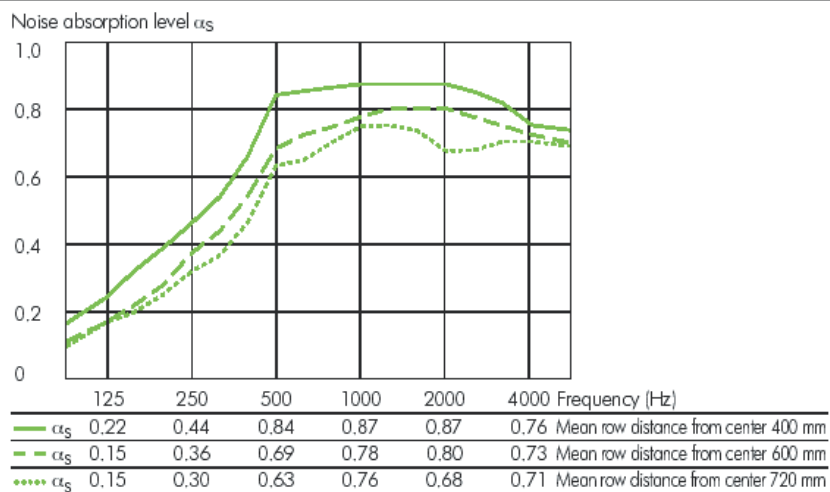
1150 x 625 x 50mm.

INSTALLATION

The sub-construction consists of the main support tracks which are hung from the ceiling using, for example, easy to adjust suspension brackets. The tracks are configured parallel to each other at an axial distance of 1200mm.

Commercially available cross section T track profiles (length 1200mm) are inserted into the absorber T groove. The assembled units are then snapped into the main support track and are hung at the desired distance from each other (depending on the configuration and number of absorbers to be installed).

This results in a system characterised by uniform rows of absorber panels running parallel to each other.



Order no.	Installation distance	400 mm	600 mm	720 mm	800 mm	1000 mm
1	Plano T absorber	2.08 units/m ²	1.38 units/m ²	1.16 units/m ²	1.04 units/m ²	0.83 units/m ²
2	Main support track* (Length 3600 mm)	0.83 rm/m ²	0.83 rm/m ²	0.83 rm/m ²	0.83 rm/m ²	0.83 rm/m ²
3	Cross section track* (Length 1200 mm)	2.08 units/m ²	1.38 units/m ²	1.16 units/m ²	1.04 units/m ²	0.83 units/m ²
4	Easy to adjust suspension brackets*	0.69 units/m ²	0.69 units/m ²	0.69 units/m ²	0.69 units/m ²	0.69 units/m ²

*not included

BAFFLESORBA™ RONDO ABSORBER

The well-rounded solution for noise absorption. BAFFLESORBA Rondo can be hung both vertically and horizontally using commercially available hanging supports. Due to its low weight, BAFFLESORBA Rondo units can easily be dismantled and remounted when maintenance work is being conducted.

PRODUCT ADVANTAGES

- Cost savings due to easy handling and low weight
- Vertical and horizontal installation options available
- Improvement in architectural acoustics and optimal noise reduction due to exceptionally high level of noise absorption over a wide range of frequencies

VERSIONS

(Please indicate when ordering). Featuring T groove cut for horizontal hanging from 24mm T track (not included) for horizontal installation.

The BAFFLESORBA Rondo Absorber comes complete with integrated aluminium tube (1200 x 8 x 1mm) for vertical installation.

DIMENSIONS

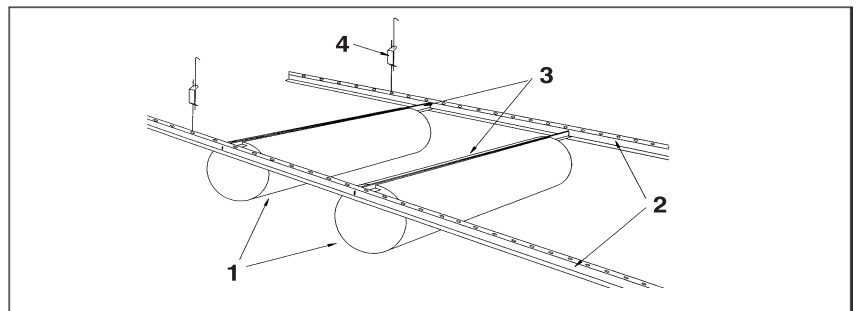
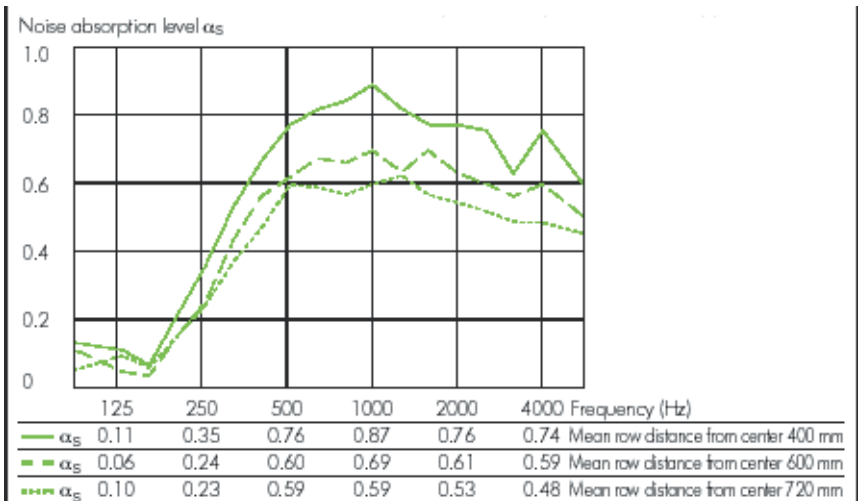
1150 x 150mm diameter.

INSTALLATION

When installed vertically, the BAFFLESORBA Rondo Absorber with the integrated aluminium tube is hung from the ceiling by means of hook and eyelet.

When installed horizontally, the sub-construction consists of the main support tracks which are hung from the ceiling parallel to each other at an axial distance of 1200mm using easy to adjust suspension brackets.

Commercially available cross section T track profiles (length 1200mm) are inserted into the absorber T groove. The assembled units are then snapped into the main support track and are hung at the desired distance from each other (depending on the configuration and number of absorbers to be installed). This results in a system characterised by uniform rows of absorber panels running parallel to each other.



Order no.	Installation distance	400 mm	600 mm	720 mm	800 mm	1000 mm
1	Rondo absorber	2.08 units/m ²	1.38 units/m ²	1.16 units/m ²	1.04 units/m ²	0.83 units/m ²
2	Main support track* (Length 3600 mm)	0.83 rm/m ²	0.83 rm/m ²	0.83 rm/m ²	0.83 rm/m ²	0.83 rm/m ²
3	Cross section track* (Length 1200 mm)	2.08 units/m ²	1.38 units/m ²	1.16 units/m ²	1.04 units/m ²	0.83 units/m ²
4	Easy to adjust suspension brackets*	0.69 units/m ²	0.69 units/m ²	0.69 units/m ²	0.69 units/m ²	0.69 units/m ²

*not included

BAFFLESORBA™ WETROOM ABSORBER



This top of the line noise absorption product is specially designed to fulfil the stringent hygienic requirements set out by the beverage, foodstuff and pharmaceutical industries. BAFFLESORBA Wetroom Absorbers are resistant to bacteria and are fibre free. Due to its low weight and easy installation, the absorber can be utilised in a wide variety of situations and can be adapted to suit various construction requirements. Cleaning of the absorbers may be conducted using high pressure water jet. In tests performed by DOEMENS, the beverage industry's inspection and monitoring unit, it was demonstrated that the BAFFLESORBA Wetroom Absorber is excellently suited for application in the beverage industry.

PRODUCT ADVANTAGES

- Negligible structural influence due to low weight
- Easy to clean using high pressure water jet
- Demonstrated safety for use in the beverage and foodstuff industries: DOEMENS certified
- Improvement in architectural acoustics and optimal noise reduction due to exceptionally high level of noise absorption over a wide range of frequencies

DIMENSIONS

1150 x 600 x 50mm.

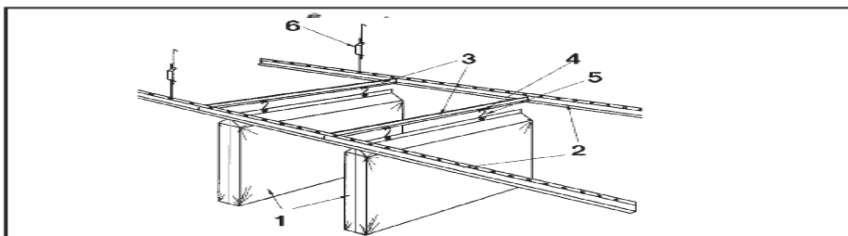
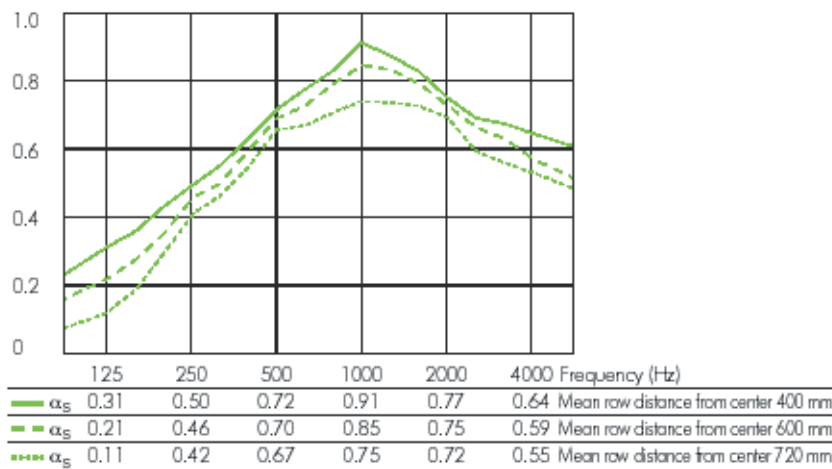
INSTALLATION

The sub-construction consists of the main support tracks which are hung from the ceiling parallel to each other at an axial distance of 1200mm, using easy to adjust suspension brackets.

The cross section T track profiles (length 1200mm) are snapped into the main support tracks at the desired distance from each other (depending on the configuration and number of absorbers to be installed).

The BAFFLESORBA Wetroom Absorbers can be hung from the cross section tracks using conventional caddy clips or 's' hooks.

Noise absorption level α_s



Order no.	Installation distance	400 mm	600 mm	720 mm	800 mm	1000 mm
1	Wetroom absorber	2.08 units/m ²	1.38 units/m ²	1.16 units/m ²	1.04 units/m ²	0.83 units/m ²
2	Main support track* (Length 3600 mm)	0.83 units/m ²	0.83 units/m ²	0.83 units/m ²	0.83 units/m ²	0.83 units/m ²
3	Cross section track* (Length 1200 mm)	2.08 units/m ²	1.38 units/m ²	1.16 units/m ²	1.04 units/m ²	0.83 units/m ²
4	Caddy clip*	4.00 units/m ²	2.66 units/m ²	2.22 units/m ²	2.00 units/m ²	1.60 units/m ²
5	S hook*	4.00 units/m ²	2.66 units/m ²	2.22 units/m ²	2.00 units/m ²	1.60 units/m ²
6	Easy to adjust suspension brackets*	0.69 units/m ²	0.69 units/m ²	0.69 units/m ²	0.69 units/m ²	0.69 units/m ²

*not included

Other acoustics products available from Soundsorba range:



WALLSORBA™ acoustic panels are used on walls to absorb sound. They are fabric faced and available in 40 different colours.



ECHOSORBA™ stick-on acoustic ceiling panels are used in schools and flats to meet acoustic building regulation BB93. They are pre-decorated in a white colour textile.



DOORSORBA™ acoustic timber internal doors are high performance sound reducing doors. These are available up to 44 decibel ratings.



FOAMSORBA™ are extremely lightweight sound absorbing tiles. These come in 3 face pattern versions and are simply glued to ceiling substrates.



WOODSORBA™ are wood veneered timber core acoustic panels for ceilings and walls. They are available in ash, oak, okoume, beech and other wood veneer facings.



SQUARESORBA™ are acoustic suspended ceiling tiles for designers who have creative flair. Used in retail and showroom areas.



STEELSORBA™ is a high specification sound absorbing industrial panel for walls and ceilings. They are resistant to mild impact and are simple and quick to install. Used in factories, workshops etc.



SCREENSORBA™ are high acoustic performance screens. These are double sided acoustic units with an internal sound reduction core.

GUIDE SPECIFICATION

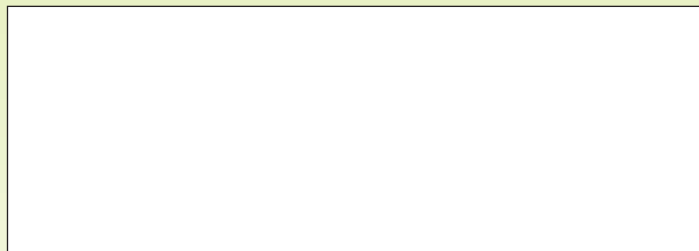
A. General

1. All BAFFLESORBA absorbers should be installed in accordance with manufacturer's instructions.
2. The contractor shall be responsible for the examination and acceptance of all conditions and project suitability prior to the acoustic tile installation.

B. Product

1. Install BAFFLESORBA Plano T absorber* / Rondo absorber* Wetroom absorber* / Plano absorber ECO* / Wetroom absorber ECO* / Rondo absorber ECO* in horizontal* / vertical* position.
*Delete as applicable.

BAFFLESORBA suspended noise absorbers are distributed by:



Prices and Conditions of Sale

Our standard terms and conditions (copy available on request) apply to all orders. Since Soundsorba Limited exercise no control over the use of its products, no legal responsibility is accepted for any application of their products. We reserve the right to change specifications without notice as our policy is one of continuous improvement. Copyright Soundsorba Limited 2011.