AcoustiCone®

The acoustical perfect equilibrium.

AcoustiCone®: ART OF LISTENING

LIVING ENVIRONMENTS AND SOUND:
It is well known that we like rooms not too noisy and with a reverberation time not too long: we need the right sound absorption and diffusion with the highest intelligibility of speech and music for a “good acoustics”.
Usually we find environments with surfaces, walls, ceiling, floor very “hard” and with high sound reflection: the acoustical ergonomics is very poor, the speech communication very difficult and the quality of the musical sound is poor and unpleasant.
We have serious acoustical problems in offices, class rooms, restaurants, refectories, canteens, gymnasiums, swimming-pools, cinemas, dance-hall, concert-hall, theatres, pubs, etc. etc., where the sound waves can oscillate back and forth with low attenuation and generate “flutter echoes, standing and travelling waves”.
The AcoustiCone® is an unique apparatus for the correction of the environmental acoustics.

SOUND TECHNOLOGY:
The AcoustiCone® is made with three elements of aluminium with hi-tech aspect, it is not inflammable, with acoustical absorption and reflection capacity; the flat conical shape allows an easy installation on the ceiling (fixed with a simple hook).
It is the best system to reduce noise and has the best ergonomic environment with high intelligibility.
Any flat parallel surface, also if absorbing the sound, will never avoid the generation of standing waves and flutter-echo at some frequency: the acoustic can not be good!
Brüel Acoustics - Prof. Dr. G. Mario Mattia

This problem has been solved from Brüel Acoustics with the most advanced acoustical correctors.
The AcoustiCone® avoids flat and parallel surfaces, reduces environmental noise and can offer the best acoustical ergonomics for speech, music and living.

TECHNICAL DATA:
The AcoustiCone® is a not inflammable flat cone shaped sound corrector with a diameter of 83 cm, height of 23 cm and weight of 650 grams, consisting of three pre-slit aluminium sectors “high-tech” finish held together by plastic clips and interlined with special paper type absorbing pads.

<table>
<thead>
<tr>
<th>SABINE $m^2$/AcoustiCone</th>
<th>0.15</th>
<th>0.27</th>
<th>0.47</th>
<th>0.47</th>
<th>0.40</th>
<th>0.32</th>
<th>0.24</th>
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<td>Hz</td>
<td>100</td>
<td>200</td>
<td>500</td>
<td>1K</td>
<td>2K</td>
<td>5K</td>
<td>8K</td>
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ABSORPTION AND REFLECTION:
For the best acoustical correction one AcoustiCone® must be mounted each square meter of the ceiling. The sound absorption is not a “primary” quantity: for a “good acoustics” we need uniform and regular room sound distribution with a flat reverberation time in all frequency, high intelligibility (STI Speech Transmission Index) and no flutter echoes or standing waves.

ASSEMBLY:
The AcoustiCone® is delivered ready to be assembled.
The package is equipped with tree plastic holders or assembly rails, one galvanised spring, a twisted wire fastener with hook and a small aluminium top cone for each AcoustiCone®.
Place the flanges of two sectors against each other with the slid-side down on a flat working space of about 1 m². If the flanges have been bent, they are easily straightened by running gently an hard object along them. One plastic clip holder will fix the two sectors starting from 2.5 cm or 1” from the outside of the cone and pressing down gently in the direction of the centre hole. Repeat the operation with the third aluminium sector and close the cone with the third plastic clips giving to the AcoustiCone® the right arch.

MOUNTING:
Drill a hole on the ceiling about every meter from each other, then insert and screw a wall-plug with eyelet, hung the spring and the fastener hook on the spring (keep in mind the diameter of 83 cm and the distance from the wall or any object have to be over 42 cm from the hole and avoid to align the AcoustiCone® parallel to the walls).
Insert the three special absorbing papers in the Cone and then raise the AcoustiCone® against the ceiling ensuring that the wire fastener emerges through the centre hole.
Place the small top cone so that the wire passes through the hole. Pull the wire until the fastener has passed through the hole in the small top cone and is hooked to its edge.
Then bend the remaining end of the wire below the top cone as an extra hook and cut of the hanging wire 5-7 mm away.

The reported data are indicative and not binding because Brüel Acoustics works constantly to reach perfection on the products and keeps the right to bring any modification or improvement without notice.

APPLICATIONS:
MEETING ROOM

HI FI ROOM

OFFICE
AcoustiCone™ type 61BA

Features
- Easy to install and uninstall
- One hole mounting
- Price saving acoustic solution
- No mineral fibres dust - only paper
- Unique and timeless design

General description
In every building where people stay, work or live it is of paramount importers that the acoustic environment is good. Unfortunately it is not the case in many places. By installing of acoustic absorbers you can do something about it. The AcoustiCone™ is a very unique sound absorber made of aluminium and paper. Besides being a god sound absorber the AcoustiCone™ is all so capable of distribute the sound in order to avoid echoes at high frequencies. Due to the size of the AcoustiCone™ it fit in between existing installations such as light armatures, ventilation shaft, fire warning equipment etcetera. That makes it very easy to install. The AcoustiCone™ can be painted in any colour.

Main Specifications
- Weight: only 650 grams
- Diameter: 83 cm
- Height: 23 cm
- Area: 0.54 m²
- Material: Aluminium
- Acoustic material: Polypropylene
Ergonomia Acustica

S2 with and S1 without AcustiCone

Position

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