



soften[®]
acoustic panels

Witteveen
Project-Inrichting.nl

soften&designers

Soften Oy is a Finnish company specialized in acoustic interior design solutions. Soften manufactures a wide range of innovative acoustic panels and elements designed to provide enhanced interior appearance and excellent acoustic performance.

Our production is based strongly on production development. Wide range and long term expertise of mechanic design, product design and interface design guarantees the development and manufacturing of innovative and high-quality products.

Soften brings out new and interesting acoustic products that suit for private homes as well as public offices. Our products represent finest quality, easy usability and convertibility.



Marko Ståhlstedt



Veli-Matti Laukasto

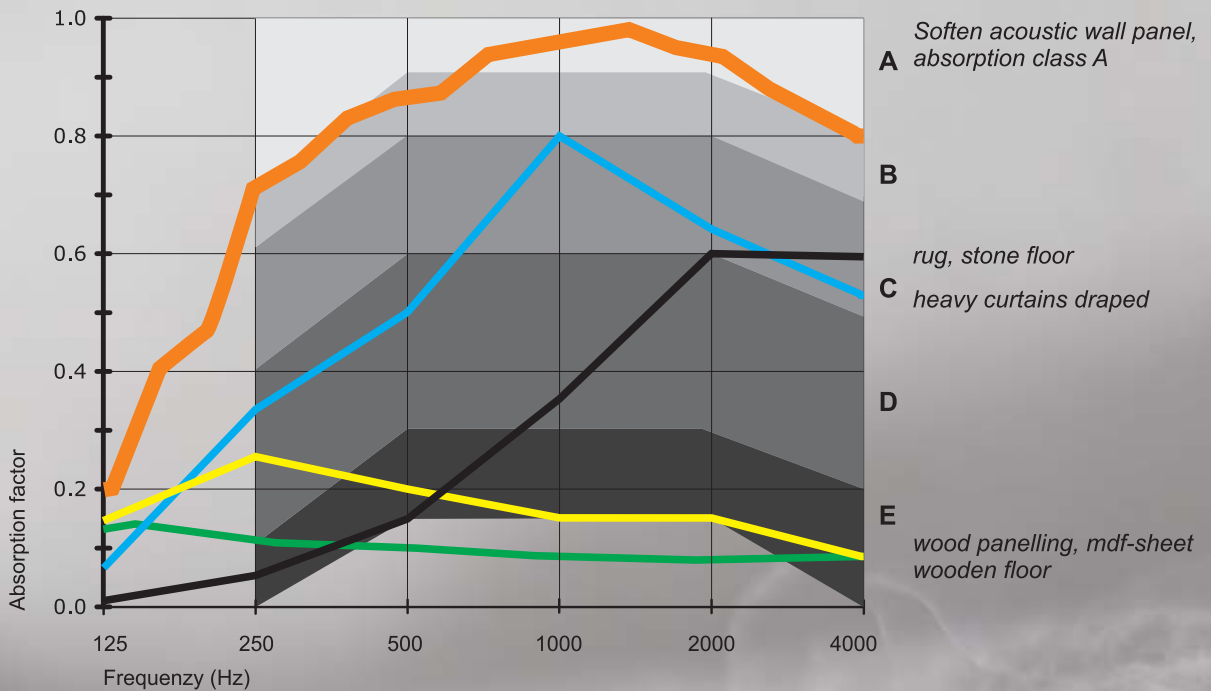


Valtteri Wilén



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Absorption classification



About acoustics

The world of sounds has a great affect on the welfare of people. Spaces suffering of disturbing echoes and noises have many negative effects. The acoustics of a space can be improved and controlled, so it is very important to pay attention to these things.

A reverberation, or reverb, is created when a sound is produced in an enclosed space causing a large number of echoes to build up and then slowly decay as the sound is absorbed by the walls and air. When the reverberation time is short, the previous word of the speaker abates until the listener hears the next word. This makes the speech well-understandable. When the reverberation time is longer, it is more difficult to understand speech clearly. This makes people to raise their voices or for example watch the television lauder. This leads to even noisier working or living environment. Softer materials absorb the sound waves and reduce effectively the disturbing echoing sounds.

There are 5 absorption classes (A, B, C, D and E) according EN ISO 11654 standard. The noise reduction is being measured between frequencies 200 – 5000 Hz. Products that meet class A have the best noise reduction capability.

acoustics

soften wall panels



Model S1



Model S2



Model S3



Model S4
"Lohko"

Soften acoustic panels suit for offices, public spaces as well as private homes. Wall panels are made of recycled polyester felt cloth (PET). Acoustic panels reduce effectively the reverberation time.

Acoustic panels are available with absorption classes A and C. With acoustic filling inside all the Soften panels reach class A.

Soften Wall panels are removable and fully interchangeable. By combining different shapes and colors you can create spectacular interior designs of your own. The effect of shape and surface can be highlighted with lighting.







Soften Air is ideal for public spaces where a pleasant sound environment is vital, e.g. landscape offices, waiting rooms, libraries, banks etc. The absorption class for Soften Air is the best possible: class A (EN ISO 11654).

Soften Air is tailor made according to customers wishes. It consists of modules size 55 x 55 cm. Soften Air can be used as acoustic room divider, or installed to the ceiling as a floating acoustic construction.

You may choose one color and panel type only, or a combination of different colors and panel types. All Soften panel models are available for Soften Air.





usability

The installation of Soften acoustic panels is very easy. All you need is a measure tape and a pencil.

- No extra tools are needed!

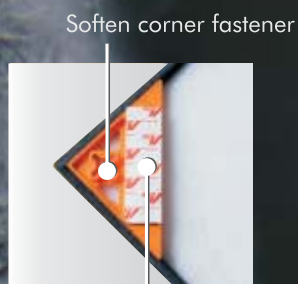
Acoustic panels are easy to install to even surfaces with adhesive stripes, which are attached in the corner pieces.

Panels can be installed also with screws.

The combination created from the panels can easily be varied after installation. The panels can be removed from the wall and their places changed among each other. This way you can fresh up the appearance any time!



Installation

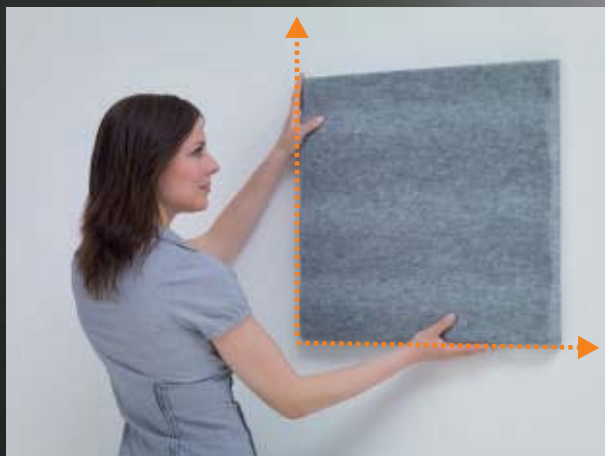


Adhesive attached to the corner fastener

1.



2.



3.



4.



materials & colours

Soften acoustic panels

- Material 100 % polyester felt cloth
- Manufactured without any solvent or other chemical substances
- Material is recycled
- Acoustic absorption class according standard ISO 354:2003
- Safe, no breakable parts
- Manufactured in Finland

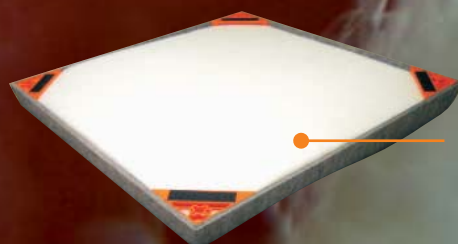
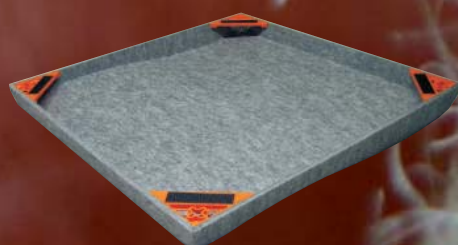
Absorption class C (EN ISO 11654) is reached without the acoustic filling inside the panel. The best absorption class A (EN ISO 11654) is reached when the panel includes the acoustic filling.

Acoustic filling

- Manufactured of recycled or new polyester fibres
- Material is recyclable
- Fire Safety Classification acc.EN 13501-1:2002: B-s1,d0
- Allergy-friendly
- Manufactured in Finland

The standard colors are off-white, light grey, dark grey and black.

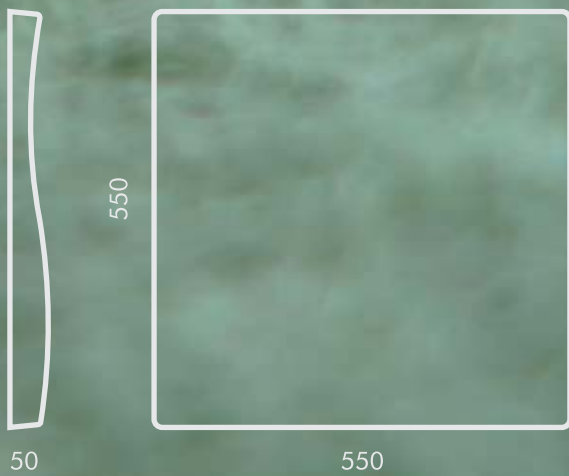
In addition to standard colors, the panels can be covered with Gabriel wool fabrics, color scales Europost and Luna (www.gabriel.dk). There are altogether 95 color alternatives.



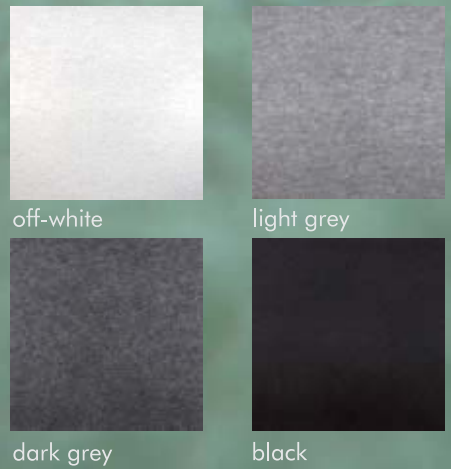
Acoustic filling



Measurements



Standard colors



Colors can vary from this printed material.



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