

BUYERS GUIDE 1.1

Important considerations when purchasing products with acoustic characteristics



Prior to purchase products with acoustic characteristics answers for two fundamental questions have to be found:

- What is the purpose of the acoustic product?
- What is the need for sound absorbers in the room considered?

After that, the amount of sound absorbers needed, can be calculated using the calculation tool on acousticfacts.com, however the calculation needs correct and understandable input data. The conditions for the input data in the calculations follow the requirement texts below. All products available on acousticfacts.com is certified and fulfill the requirements.

Why is it important to buy the tested and “correct” products?

There are several aspects that make it important to buy acoustically evaluated and certified products. One thing is the economic aspect, if it is correct from the beginning there are no need for additional measures afterwards, they are normally expensive and less efficient. Sound environment affect all of us in different manner. In order to be efficient and healthy it is important to create good sound environments, which is possible if buying the right amount of evaluated and certified products, adapted to the room it is aimed for.

What is acousticfacts.com?

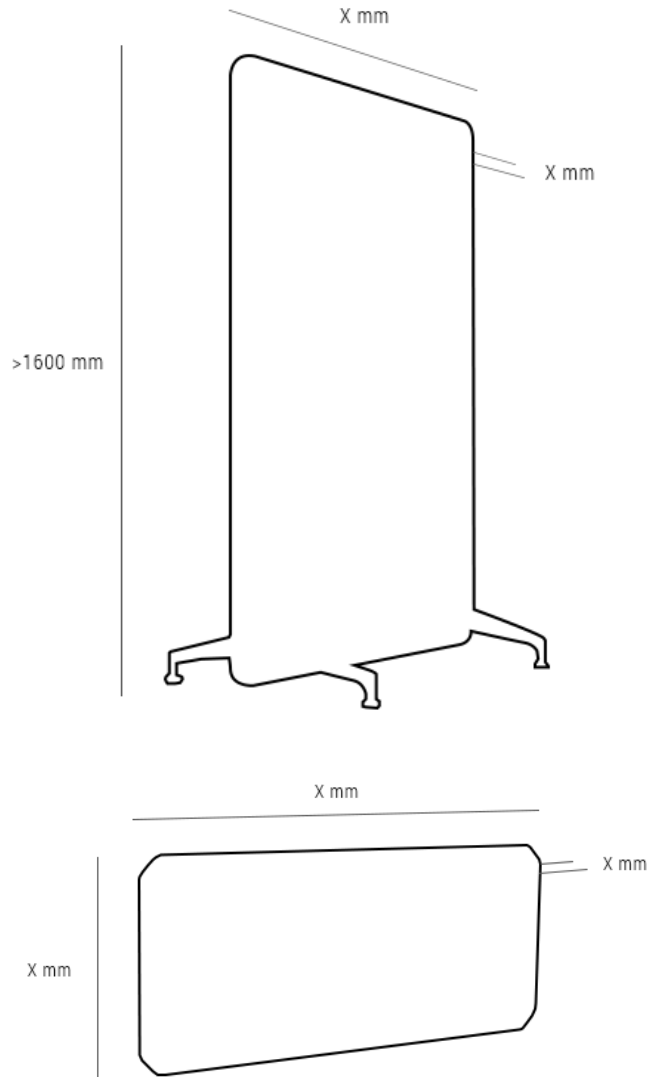
When this symbol is shown together with a product it means that the product has been examined and certified by the experts of Acoustic facts. Acoustic facts provides a quality guarantee and third party certification of interior products with regard to acoustic characteristics. Acoustic facts is hence a guarantee that the products characteristics displayed are following international acoustic standards. By using the calculation tool available at acousticfacts.com it is possible to estimate the amount of sound absorbers needed in a room in order to reach a sustainable sound environment in different room characteristics. After that, write a report that includes conditions before and after necessary measures, directly from the calculation tool and send it as a pdf.



Need help? please contact our support at support@acousticfacts.com

acoustic facts

BUYING OFFICE SCREENS



a. Floor standing screens creating "room shapes" using acoustically efficient screens

A floor screen that is creating a "room shape" and is efficient as an acoustic divider/isolator must have both sound absorbing and sound attenuation ability .

REQUIREMENTS AND CONDITIONS

Floor screens are measured according to ISO 354 and their sound absorption ability should be stated in terms of equivalent sound absorption area as given in ISO 354 (or SS 25269). Additionally, the sound attenuation ability should be given according to ISO 10053. The height of the screen should exceed 1600 mm and have a screen sound attenuation equal to at least $\Delta L_{s,w} \geq 12$ dB. Certified products are available at acousticfacts.com.

b. Floor standing screens used for "visual room creation" and adding sound absorbing ability

A floor screen for decoration adding only minor screen efficiency but adding sound absorbing ability.

REQUIREMENTS AND CONDITIONS

Floor screens are measured according to ISO 354 and their sound absorption ability should be stated in terms of equivalent sound absorption area as given in ISO 354 (or SS 25269). The total amount of screens needed to receive 10 m² sound absorption area at 500 Hz, have to be given. Curve sheets using corresponding statements regarding acoustics as acousticfacts.com should be provided. Certified products are available at acousticfacts.com.

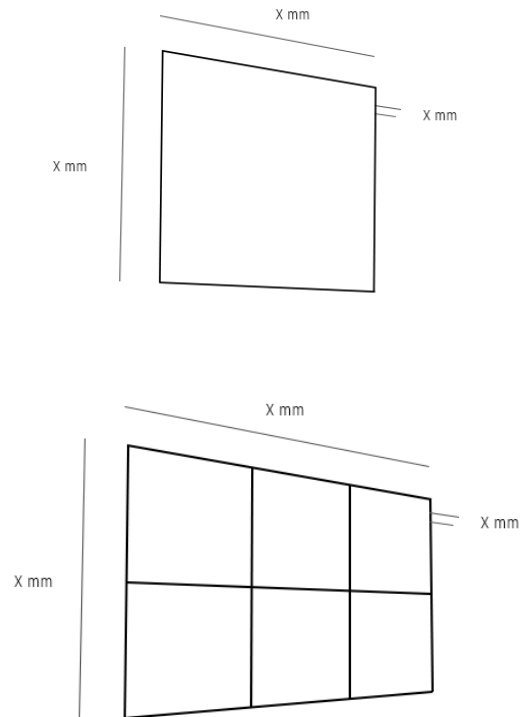
c. Desk screens with acoustic performance

A desk screen aimed to be an acoustically divider must have considerable sound absorbing characteristics and also provide some screen sound attenuation.

REQUIREMENTS AND CONDITIONS

Desk screens are measured according to ISO 354 and their sound absorption ability should be stated in terms of equivalent sound absorption area as given in ISO 354 (or SS 25269). They have to be at least sound absorbing on one side (facing the desk) and have a light closed core or an outer board. The total amount of screens needed to receive 10 m² sound absorption area at 500 Hz, have to be given. Curve sheets using corresponding statements regarding acoustics as acousticfacts.com should be provided. Certified products are available at acousticfacts.com.

BUYING WALL SOUND ABSORBERS



a. Single sound absorbers for walls

A single sound absorber aimed for walls and used as solitary must have good sound absorbing ability.

REQUIREMENTS AND CONDITIONS

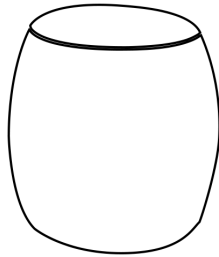
Single sound absorbers aimed for walls are measured according to ISO 354 and their sound absorption ability should be stated in terms of equivalent sound absorption area as given in ISO 354 (or SS 25269). The total amount of sound absorbers needed to receive 10 m² sound absorption area at 500 Hz, have to be given. Curve sheets using corresponding statements regarding acoustics as acousticfacts.com should be provided. Certified products are available at acousticfacts.com.

b. Compounded sound absorbers covering an entire surface / wall

Sound absorbers aimed to cover an entire surface or entire walls (>10 m²) must have good sound absorbing ability.

REQUIREMENTS AND CONDITIONS

Compounded sound absorbers aimed for an entire surface / wall are measured according to ISO 354 and their sound absorption ability should be stated using sound absorption coefficient, α_p , according to EN ISO 11654. Additionally the weighted sound absorption coefficient, α_w , has to be given. Certified products are available at acousticfacts.com.

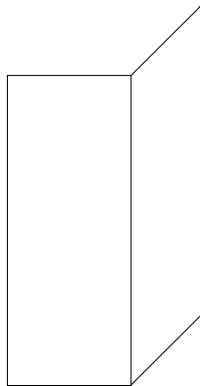


BUYING FURNITURE SUCH AS SOFAS, STOOLS, CHAIRS ETC. WITH SOUND ABSORBING ABILITIES

Furniture with good sound absorbing ability can be an advantage in their use in a room if adding sound absorbing characteristics.

REQUIREMENTS AND CONDITIONS

Furniture are measured according to ISO 354 and their sound absorption ability should be stated in terms of equivalent sound absorption area as given in ISO 354 (or SS 25269). The total amount of sound absorbers/ furniture units needed to receive 10 m² sound absorption area at 500 Hz, have to be given. Curve sheets using corresponding statements regarding acoustics as acousticfacts.com should be provided. Certified products are available at acousticfacts.com.



BUYING MOVABLE FOLDING WALLS

A movable folding wall should be both sound absorbing and sound isolating.

REQUIREMENTS AND CONDITIONS

Movable folding walls should be measured according to ISO 354 with specified mounting conditions given (The sound absorption characteristics should be measured in a wall test opening in order to achieve correct sound absorption in low frequencies) and their sound absorption ability should be stated using sound absorption coefficient, α_w according to EN ISO 11654. Additionally α_w has to be given. Furthermore the sound insulation must be measured according to ISO 10140-2 and evaluated according to ISO 717-1. The sound reduction is given by R_w . Certified products are available at acousticfacts.com.