



Acoustic Fiberglass Wall Covering

The solution that improves acoustic comfort

Reducing environment noise, a daily problem

In **restaurants, dining rooms** or other rooms used for entertaining, it is often difficult to be understood without raising your voice or even to follow a conversation. **Environment noise leads to an uncomfortable situation.**

In the working environment, **open spaces** can be the source of **tiredness, stress** and can even cause a **drop in performance**. Multiple noise distracts employees concentration. An investigation by JNA/IPSOS in March 2011 shows that 51% of people working in open spaces declare they are distracted by a noisy environment.

During **conferences or lessons**, it is often **difficult to follow the speech** because of the surrounding noise. The effort to remain attentive can cause headaches or irritability.

In a room dedicated to **Home video**, it is difficult to obtain the same result as in a cinema. **Sound perception is disturbed.**

How can acoustic discomfort be reduced in these situations?



Novelio® Acoustic provides the solution with a high-performance product

Absorbs up to 60% of sound noise

- Belongs to the D class of acoustic absorption with a coefficient of Alpha sabine $\alpha_w = 0,3$ (H)
- Reduces noise propagation in high traffic areas and echo in unfurnished rooms

A decorative, soft and resistant wall covering as are all products in the Novelio® range

- Reinforces delicate surfaces
- Resists abrasion and impact
- Covers all cracks

When a sound hits a surface, it generates an incident energy that is split between energy transmitted, absorbed and reflected: according to the nature of the materials, it is possible to modify these energy quantities and so improve the sound atmosphere.

Acoustic comfort is obtained by the control of sound reverberation, we can act on 2 criteria:

1 - decrease the sound level by increasing the energy absorbed: the absorption coefficient $\alpha_w = E \text{ absorbed} / E \text{ incident}$

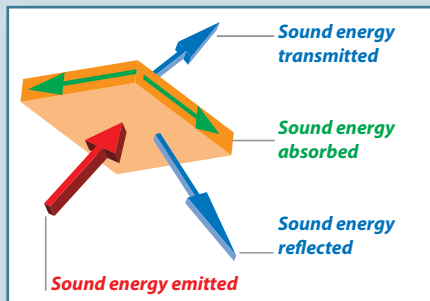
Alpha sabine (α_w) = 0 the material does not absorb anything (tile floor)

Alpha sabine (α_w) = 1 the material absorbs everything (ceiling tiles)

2 - improve the listening quality by favouring a diffuse reflection: an absorbant material improves speech intelligibility

The paintable wall covering Novelio® Acoustic is made of a decorative fiberglass fabric and a 6 mm absorbant foam, specially developed to obtain the best acoustic performance once painted.

How does it work?



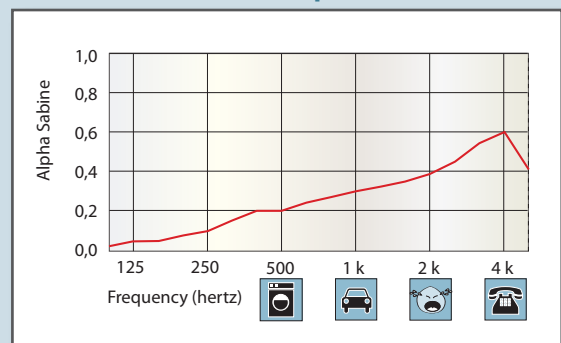
Acoustic efficiency

Novelio® Acoustic causes a significant acoustic correction to the frequencies of the human voice (between 500 & 2000 Hertz): it absorbs up to 60% of sound noise. This performance allows it to be categorized in class D, which is exceptional for a such thin wall covering.

We recommend Novelio® Acoustic:

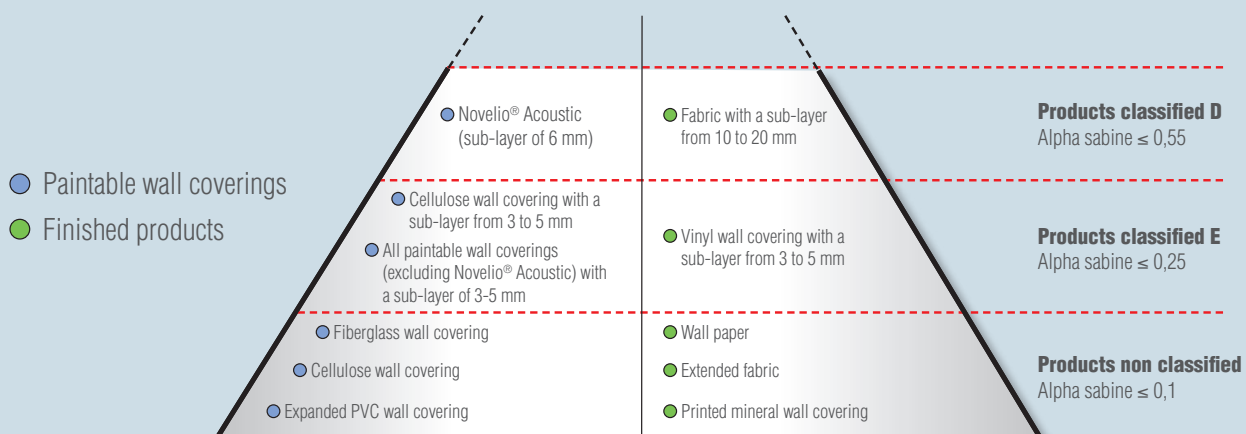
- **for public buidlings:** in halls, corridors, conference rooms and classrooms
- **for offices:** in open spaces and corridors
- **for residential buildings:** in corridors, living spaces and Home video rooms

Acoustic Absorption curve



Class of acoustic absorption: D with an alpha sabine coefficient $\alpha_w = 0,3$ (H)
According to the norm EN ISO 354 (2004) Results available on request

Novelio® Acoustic, the best performing paintable solution at 6 mm



Saint-Gobain ADFORS CPE

Phone: +420 461 651 111