

Making room for knowledge

with **Ecophon Gedina™ + Extra Bass**



Ecophon[®]
SAINT-GOBAIN

A SOUND EFFECT ON PEOPLE



Outstanding classrooms

Kindergarten; primary school; lower, middle and upper secondary school; university – as our children grow up, they spend many years in school. But today much of the educative process takes place in classrooms that are not optimised for learning.

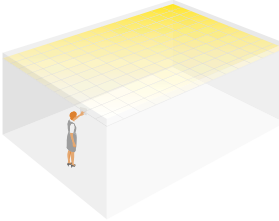
Studies show that students in poor sound environments cannot hear their teacher clearly, experience a reduction in short-term and long-term memory, are less focused, have lower reading ability and ultimately, lower test scores.

For students in a healthy sound environment, the opposite is true. Their understanding of what the teacher is saying can increase by as much as 25%, they remember more, they are more focused, they read better and they get higher scores in tests.

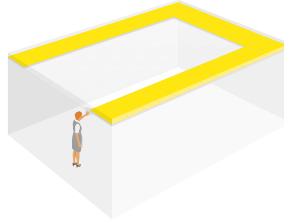
A crucial factor in achieving a classroom that is up to the task is to reduce low-frequency background noise that distorts speech and makes students and teachers lose focus and become tired, such as echoes, murmurs, movements and sound from ventilation fans and projectors. That's why Ecophon has developed Ecophon Gedina™ + Extra Bass. By adding extra low-frequency absorption on top of the wall-to-wall ceiling, the system effectively absorbs background noise. And when you combine it with Ecophon Akusto™ Wall you get the ideal solution for classrooms.

Ecophon Gedina™ + Extra Bass is specially developed for classrooms, where good acoustics and speech intelligibility are vitally important. The system consists of a combination of Gedina panels, a unique low-frequency absorber, Ecophon Extra Bass, and a Connect™ grid system. The absorbing material is our revolutionary 3rd generation glass wool, which combines more than 70% recycled glass with a renewable plant-based binder.

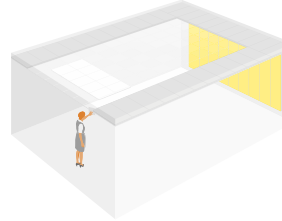
How does it work?



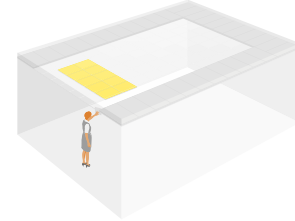
Gedina wall-to-wall ceiling absorbs sound in the whole classroom and reduces the sound level.



Extra Bass is a unique, specially designed 50 mm low-frequency absorber that is placed on top of the ceiling. It absorbs disturbing background noise. Extra Bass should cover at least 50% of the ceiling area.



Akusto Wall absorbs the sound that otherwise would bounce off walls and create echoes. In a traditional teaching setting, Akusto Wall should be installed on the back wall, and for group work it should be installed on two adjacent walls.



Gedina/gamma ensures total speaker comfort, by adding a small speech-reflecting zone in the ceiling above the area where the teacher normally stands.



Acoustics

Edge	α_p Practical sound absorption coefficient						α_w
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
A	0.70	1.00	1.00	1.00	1.00	1.00	1.00
E	0.70	0.95	0.95	0.95	1.00	1.00	1.00

Superior surface

Akutex™ T is a painted, yet porous, surface developed by Ecophon. It allows almost 100% of the sound energy to penetrate and be absorbed by the glass wool core. Its high light reflectance of 84% means that Akutex T can lead to cost-effective and more energy-efficient lighting. The surface is also easy to clean.



Edges and sizes

Edge design	Edge	600x600	1200x600
	A	•	•
	E	•	•

Safe products

Good indoor air quality is essential if teachers and students are to perform at their best. Gedina + Extra Bass complies with the California Emission Regulation standard and French VOC A+, the two toughest standards in the world for formaldehyde and VOC emissions.



Want to see how it's done? Watch our installation films on youtube. com/ecophonTV and ecophon.com.

Remember the rest of the school

Every school has many different spaces, where a lot of different activities take place. To help you choose the right solution for every activity, Ecophon has developed a comprehensive package for education, in which Gedina is recommended for many activities and spaces. Learn more at ecophon.com.



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Ecophon dates back to 1958, when the first sound absorbers from glass wool were produced in Sweden to improve the acoustic working environment. Today the company is a global supplier of acoustic systems that contribute to good room acoustics and a healthy indoor environment with the focus on offices, education, health care and industrial manufacturing premises. Ecophon is part of the Saint-Gobain Group and has sales units and distributors in many countries.

Ecophon efforts are guided by a vision of earning global leadership in room acoustic comfort through sound-absorbing systems, enhancing end-user performance and wellbeing. Ecophon maintains an ongoing dialogue with government agencies, working environment organisations and research institutes, and is involved in formulating national standards in the field of room acoustics where Ecophon contributes to a better working environment wherever people work and communicate.

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