

GOOD ACOUSTICS

REDUCE MISTAKES IN OPERATING ROOMS

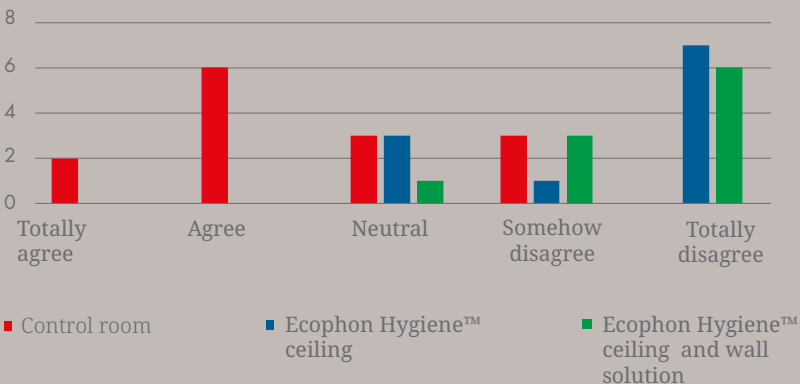


HELPING PEOPLE

SAVES LIVES

In operating rooms, communication and concentration are vitally important. In a study done at Hvidovre Hospital in Copenhagen, Denmark, two operating rooms were given acoustic treatments: the first with an acoustic ceiling and the second with acoustic ceiling and wall absorbers. An original operating room was used as control room. The results clearly show that having a good sound environment in operation rooms will:

- Reduce mistakes
- Reduce stress
- Improve communication



HOW IS THIS POSSIBLE?

In operating rooms, communication is often made more difficult by sounds from technical equipment, activities and speech that bounce back and forth between all the hard surfaces in the room. This was the environment in the original operating room. Introducing a sound-absorbing ceiling reduced the overall sound level and hindered the sound from spreading. This was further enhanced with wall absorbers. They reduced the noise and thus improved speech clarity even more. With each improvement, the measured acoustic results in the rooms improved. Staff clearly experienced the difference and stated that the most improved room was the place where they were most relaxed and could communicate without effort. "There is a huge difference in the sound environment when I compare to a similar situation in the control room." Nurse commenting on OR 6 with Ecophon Hygiene ceiling and wall absorbers.

ECOPHON SOLUTION

In healthcare facilities it is important that acoustic solutions also meet the strictest hygiene demands in regards to cleaning and disinfection. In this study Ecophon therefore provided the operation rooms with an Ecophon Hygiene™ ceiling and an Ecophon Hygiene™ wall absorber.

THE STUDY

The study was done at Hvidovre Hospital in Copenhagen, Denmark. Three operating rooms (OR) were involved in the project. The participating staff worked in all three operating rooms.

Reference: Beldam, "Impact of acoustics on staff performance in operation rooms", Internoise, Madrid, 2019





Ecophon is the leading supplier of indoor acoustic solutions that improve working performance and quality of life. We believe in the difference sound can make to our everyday lives, and are passionate advocates for the importance of room acoustics to people's wellbeing - whatever the space, activity or need.

Having a sound effect on people is the principle that guides all we do. We're proud of the Swedish heritage and human approach that promise is founded on. Our uncompromising commitment to transparent sustainable practice. And, as members of the Saint-Gobain Group, to be doing our part in making the world a better home.