



ELDERLY CARE

DESIGN TO SUPPORT
EVERY-DAY LIFE

ACTIVITY BASED DESIGN

The room design should aim to help people navigate a space, feel safe and interact with others. To do this requires well-designed acoustics and lighting. Good sound environments and Biocentric lighting (BCL) can encourage communication in shared spaces where elderly people access, enjoy, and participate in social interaction.

High sound levels and echoes need to be eliminated to ensure that conversations can be held and comfortably understood when using a regular tone of voice. As with any space, within elderly care, it is important to consider that people often have hearing disabilities. Noise and hearing difficulties are known to cause anxiety, stress, and withdrawal from social activities. The ability to perceive human speech is affected and we become more dependent on background noise levels being low.

People living in elderly care facilities often spend most of their time indoors, preventing them from receiving the amount of daylight necessary to meet their biological needs. In addition, the need for daylight increases as we age. Conventional, static lighting is often too dim during daytime and too bright for nighttime, leading to a misaligned circadian rhythm. Biocentric lighting recreates daylight indoors by mimicking the most important aspects of daylight to help sustain a healthy circadian rhythm. Bright days and dim nights, it is all about getting the right light at the right time.

Design to support every-day life!



SOUND ABSORPTION

Improve speech clarity and support spoken communication in any room with Ecophon acoustic tiles.

When sound waves hit a room's surfaces, some of the energy is reflected into the room, whilst some is absorbed by acoustic panels. The level of absorbed sound energy depends on the sound-absorbing properties of the material.

Ecophon sound-absorbing panels can be used as a full-covering ceiling and complemented by sound-absorbing wall panels. By doing this, noise levels can be lowered, and the reverberation time shortened. Achieve a comfortable environment with Ecophon acoustic tiles.

SOLUTION

- Use sound-absorbing ceiling- and wall panels
- Ensure that the acoustic solution supports communication
- Support recovery – keep the sound levels down
- Make sure that the acoustic products fulfil the hygienic demands

RESULT

- Comfortable sound environment
- Improved communication and wellbeing
- A reduction in stress levels
- Improved sense of security
- Enhanced staff wellbeing, work performance and satisfaction

BIOCENTRIC LIGHTING

The Biocentric lighting luminaires are easy to install over a table, providing Biocentric lighting for the people sitting around.

Simply mount the luminaires in the suspended ceiling, plug in the power, and mount the wireless switch. The light switch uses an energy-harvesting technology where the energy needed to control the light is generated with the push of a button.

No cables or batteries are needed, and it can be placed anywhere. The light recipe automatically controls the light to gradually and unnoticeably vary in intensity and colour appearance to mimic daylight variations and provide healthy light with the right circadian impact both day and night.

SOLUTION

- Use Biocentric lighting in shared spaces
- Mimic daylight variations to support the circadian rhythm
- Use the Dining recipe to improve appetite
- Use the Relax recipe to support rest and relaxation

RESULT

- Better sleep
- Improved mood
- Reduced depression in dementia patients
- Reduce the number of falls in patients
- Enhanced staff wellbeing, work performance and satisfaction



Ecophon and BrainLit unite in partnership providing a complementary lighting offer for enhanced health and wellbeing. Ecophon and BrainLit offer cutting-edge acoustics with Biocentric lighting. This collaboration offers products developed for various indoor environments, such as offices, schools, elderly care, and healthcare. Our goal is clear – to provide better indoor environments for humans.

Read more about BrainLit on brainlit.com
BrainLit products can be ordered via Ecophon

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