Brakel®
Recreation Concept

A safe and pleasant stay

Buildings with a recreational function such as museums, amusement arcades, theatres and libraries demand a (fire) safe and agreeable environment. After all, these are places that entertain large numbers of people are usually contain large amounts of valuable equipment. It's a well-known fact that buildings with a recreational function are even more attractive if the environment provided is pleasant.

Safe escape routes in the event of fire

It is essential that any public present are able to make a fast and safe exit from the building in the event of fire. An effective system for smoke and heat exhaust, prompt fire detection, the alerting of any people present and any fire services together with an efficient evacuation plan are of vital importance. This needs to be addressed at an early stage of the design of a building or extension.

Central, open areas with a pleasant indoor climate

Recreational buildings often have open spaces where large groups of people congregate. Due to their popularity with the public, these areas need to be comfortable and attractive. A pleasant and balanced indoor climate is important in satisfying this requirement. Usually the main contributing factors to this are daylight access, an acceptable temperature and air quality. The sustainability and the energy efficiency of the building should not suffer as a consequence of creating the ideal indoor climate.

Daylight: improves concentration and creativity

Daylight has a positive effect on mental well-being, concentration and creativity. This is of course especially important in the recreation sector.

An added advantage is that the general appearance of "products" is much better in daylight than under artificial light, especially important in exhibitions and markets.

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Ventilation: healthy air and a pleasant temperature

Areas with a lot of people need to be adequately ventilated. Inadequate ventilation increases the CO_2 levels and the temperature in a room resulting in people feeling unwell or lethargic. Brakel can prevent this by installing on-demand, controllable natural ventilation in large areas. Natural ventilation works by using updraft and provides an effective, silent and energy efficient climate control. Controllable ventilation also provides a constant air supply and avoids excessive energy loss.
Natural ventilation has one more important advantage: it can be utilised for fire safety purposes, providing an efficient exhaust of smoke and heat.

Insight into performance

To offer clients an insight into the effect that certain ventilation and daylight systems have on comfort and energy consumption Brakel has created a unique program using simulation models to provide performance indicators based on temperature, the satisfaction of the building inhabitants and the energy consumption of the building. This allows an informed choice to be made for the level of comfort and energy consumption required for the building. The running costs also form part of this process.

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