

SUCCESS STORY

SOUND INSULATION INDUSTRY

New Blower, Ireland

PROJECT DATA

Brief description

Cisilent® Type E as a stationary enclosure for chiller units to reduce the noise pollution for the neighbours to an acceptable level.

Requirement

Due to the installation in a confined space, it was necessary to create space-saving access for the maintenance of the new chiller units without compromising the airborne sound insulation.

City, year Dublin, 2021

PROJECT DESCRIPTION

Our Irish partner SDG Construction Technology effectively reduced noise pollution from new chiller units with Cisilent[®] Type E at the site of Lakeland Dairies, a large dairy processing co-operative in Northern Ireland. As the chillers require regular maintenance, access to the units was made possible without compromising the airborne sound insulation. A steel frame was designed around the chiller units in collaboration with WD Engineers. Cisilent[®] was mounted on the steel beams and the Cisilent[®] sliding doors facilitate access without compromising the sound insulation. With the help of other project participants and an acoustic survey, we succeeded to placed Cisilent[®] with dimensional accuracy in the cramped conditions. The patented flexible noise barrier Cisilent[®] Type E achieves a weighted sound reduction index of Rw = 21 dB and reduces airborne noise to the satisfaction of the residents.

SOLUTION

The enclosure of the chiller units with partially sliding Cisilent[®] Type E works as intended and allows easy access to the unit for maintenance.

The unique textile structure of Cisilent[®], made of high-strength polyester fabric, ensures resistance to water, ozone, UV radiation as well as microorganisms and protects against contamination.

