

# SUCCESS STORY

## NOISE CONTROL

## Crane on canal bank, Berlin

### PROJECT DETAILS

#### Brief description

Attaching noise barrier panels to a canal bank crane system, including conveyor belts.

#### Requirement

Noise reduction needed to be installed for the coal transport system from the canal vessel to the building, comprising a crane and conveyor belts, to ensure operation of a thermal power station. The thermal power station operator stated that excessively high decibel levels were recorded.

#### Location, year

Berlin, 2013

### PROJECT DESCRIPTION

The thermal power station in Berlin Westend is heated with coal, which is delivered by cargo vessels on the adjacent Berlin-Spandau Ship Canal. Unloading operations with a crane and subsequent guidance through a hopper and transfer on conveyor belts created high noise levels, which disturbed patients and staff at the Charité hospital.

Measurement determined that noise from the crane on the canal bank needed to be reduced. The only way to reduce noise was to enclose the sources of noise directly on the crane.

### SOLUTION

An aluminium scaffold was installed on the crane to fasten CISILENT Type E sound barrier panels. Some 80 different individual panels were manufactured and then incorporated into the individual framework compartments. Independent measurements confirmed noise reductions at all relevant noise emission points.

#### The advantages:

- Noise protection by individual panels resulted in improved living quality
- Power station able to continue operation

