

SUCCESS STORY

SOUND INSULATION

Bunker demolition Wielandstraße Hamburg, Germany

PROJECT DATA

Brief description

Cisilent® Type E in its surface scaffolding as sound insulation for bunker demolition work.

Requirement

The demolition work during bunker gutting requires temporary sound insulation measures with Cisilent® Type E to protect residents from noise pollution.

City, year

Hamburg, 2014

PROJECT DESCRIPTION

The 42 m long, 17.5 m deep and 22 m high huge bunker on the Wielandstraße in Eilbek was used as a civil defence facility at the time. 30 high-quality condominiums have now been built there, whereby parts of the bunker have been preserved. The AVG Nord removed approx. 18,500 t of 30,000 t of reinforced concrete and slimmed the remaining walls down to 1.10 m. No blasting was used, a 32-ton excavator hollowed out the interior of the building. Since the bunker is located in the middle of residential buildings, a concept for noise protection was required.

SOLUTION

A 32-ton excavator worked its way down from the top of the bunker towards the bottom plate. In order to ensure that the noise levels were below the legal limits, Samiez Cisilent® Type E was attached to the scaffolding they erected on the top of the bunker. During the demolition work, regular sound level measurements were carried out. Thanks to the protective measures taken, the permitted levels could be maintained to such an extent that the criteria of the AVV – Construction Noise Ordinance were met even for a demolition period of 8 hours a day, leaving room for contingencies.



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