

SUCCESS STORY

VIBRATION ISOLATION

Archäologische Staatssammlung, Munich

PROJECT DATA

Brief description

Vibration and footstep sound from staircase insulation.

Requirement

A Munich museum building should be decoupled to against unwanted footstep sound transmission from its staircase.

City, year

Munich, 2020

PROJECT DESCRIPTION

The Bavarian State Archaeological Collection is the central Museum for Prehistoric and Early Medieval Archaeology. Extensive renovation work is currently underway at the museum, and a reopening will be in 2022. The general refurbishment concept also includes measures for the decoupling of impact sound from a staircase. Visitors should be protected from noise pollution in the future.

SOLUTION

For decoupling under the foundation of the staircase, vibration-insulating Ciflex G 11 mats in 50 mm thickness were installed. Ciflex G is a composite material made of polyurethane foam. The decoupling frequency of the bearing was about 15 Hz. With this Calenberg elastic solution the transmission of structure-borne sound and secondary airborne sound from the staircase to the adjacent building sections is significantly reduced.

