mageba

Public transport hub Fiesch (Switzerland)

Project description

In Fiesch, in the Swiss canton of Valais, a new junction station, the ÖV-HUB Fiesch, was built. In addition to the existing station, the owners erected a new station with integrated valley station of the likewise new feeder line to the Fiescheralp (Aletsch Arena).

A noise emmission forecast showed that the limit values according to SIA 181 are exceeded in the areas of the bottom station used by third parties. As a measure, among other things, an elastic bedding with a tuning frequency of ≤ 25 Hz was specified in order to comply with sound insulation requirements.

VIBRAX®DAMP vibration isolation mats were selected in accordance with the characteristic ground pressures determined by the structural engineer. This ensured that the various load zones had a nearly equal deflection and the requirements for the natural frequency of the mats were met.

mageba scope

In Fiesch, 1'050 m² of VIBRAX®DAMP vibration isolation mats were designed and placed according to mageba's installation concept.

The elastomer mat connections were bonded with adhesive tape and to prevent sound bridges the pipes were encased with elastomer mats. As additional protection, the bearings were covered with PE foil before concreting and the foil seams were bonded with adhesive tape.

The fact that mageba not only designed and supplied the bearings but also carried out the installation guaranteed professional handling and no additional supervisors were required for inspection.

Highlights & Facts

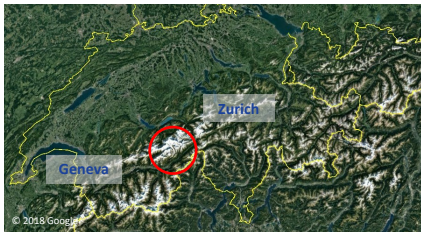
mageba Products:

Type:	VIBRAX®DAMP vibration isolation mats
Feature:	Vibration isolation
Installation:	2019

Structure:

City:	Fiesch
Country:	Switzerland
Type:	Reinforced concrete structure
Completion:	2020
Contractor:	Walpen AG
Engineer:	SPI Schmidhalter Partner Ingenieure

Public transport hub in Fiesch in the canton of Valais



Lean concrete layer with increased quality requirements

VIBRAX®DAMP elastomer mats during installation on the construction site

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