

# Residence “Seesicht” (Switzerland)



## Project description

Located in Central Switzerland on the waterside of Lake Lucerne, a luxury residential building called “Seesicht” in the picturesque village of Vitznau had been elastically supported on the factory work floor of the Rigi mountain railway by the use of highly effective vibration isolation bearings.

The target was to isolate the railway’s vibrations when entering in the factory work floor. Normally, these vibrations are transferred to the reinforced concrete structure causing uncomfortable noise and vibrations for the residents.

Moreover, the apartments and mansions had been equipped with a highly effective impact sound insulation to provide an undisturbed living environment.

The residential building «Seesicht» in Vitznau is located on the waterside of Lake Lucerne



## mageba scope

### VIBRAX®BLOCK B

Supply of 349 elastomeric bearings including static-dynamical calculation and adjustment to a resonance frequency of  $f_0 = 6.5$  Hz.

In order to meet the customer’s requirements to ensure constraint-free support, mageba also delivered special horizontal bearings for horizontal loads up to 1,500 kN per bearing group.

### MEGAMAT, Grei G8

To separate the apartment units and to ensure isolation of subsonic noise, vibration-damping matting MEGAMAT and Grei G8 were used.

Acting as one-stop partner, mageba took care of the entire installation process.

Horizontal strengthening of an elastomeric bearing by a steel structure



## Highlights & facts

### mageba products:

Type: VIBRAX®BLOCK B  
Special horizontal bearings  
MEGAMAT  
Grei G8

Features: Vibration isolation  
Installation: 2014

### Structure:

City: Vitznau  
Country: Switzerland  
Type: Luxury residential building

Construction: Reinforced concrete structure

Built: 2014  
Owner: Seesicht AG  
Architect: CSL Partner Architekten AG

VIBRAX®BLOCK B elastomeric bearings on pillars

