

# Biberist Fire Station (Switzerland)



## Project description

The fire department building of the town of Biberist in Switzerland was first built in the 1960s, and extended with the addition of a new part in the late 1980s. Due to the building's location on a slope, ground settlements during the next 25 years resulted in a 3-centimetre gap between the older and newer parts. To prevent the parts colliding and becoming destroyed during an earthquake, it was decided to install some form of seismic protection to control and damp their movements relative to each other.

## mageba scope

The responsible engineers decided to install RESTON®SA shock absorbers to damp the relative movements of the older and newer building sections. Since the gap between the structures was far too narrow to install the devices, complete with connections, it was decided to pass the devices through new holes in the walls of each structure and connect them to internal floor slabs at each side. Five RESTON®SA shock absorbers, designed for maximum forces of 125 kN and movements of up to +/- 20 mm, were supplied and installed by mageba in 2012.

## Highlights & facts

### mageba products:

Type: RESTON®SA shock absorbers  
Force: 125 kN  
Movement: +/- 20 mm  
Installation: 2012, by mageba

### Structure:

City: Biberist  
Country: Switzerland  
Type: Fire station building  
Built: 1960s  
Extended: Late 1980s

The fire station is located in the town of Biberist in northwestern Switzerland



One end of a RESTON®SA shock absorber as installed, passing through a wall



Internal view of a room in which one end of a number of shock absorbers are to be fixed

