

# Leoben State Hospital (Austria)



## Project description

The Leoben General Hospital was founded in 1805 and moved to its current location in the city of Leoben, eastern Austria, in 1889. Considering the city's location in a seismically active part of Austria (at a place that has often been the epicentre of earthquakes in the past, and thus has no main earthquake direction), it was decided to assess the ability of the hospital's five main buildings to withstand a strong earthquake. Based on this assessment, it was determined that two structurally independent structures should be connected at roof level by shock absorbers to damp their movements relative to each other and thus reduce the risk of seismic damage.

The hospital building is located in the city of Leoben in eastern Austria.



## mageba scope

mageba supplied and installed the six RESTON®SA shock absorbers required to connect the building sections together. These were designed for forces of up to 1000 kN, each with a movement capacity of +/- 50 mm. Due to the exposed location of the devices on the building's roof, protective housings, also designed to accommodate movements, were erected around each one.

By damping the movements of one section of the building relative to the other, impacts can be prevented, enabling the hospital to remain in service following a serious earthquake, when it is most needed.

Two RESTON®SA shock absorbers during installation across a joint on the building's roof.



## Highlights & facts

### mageba products:

Product: RESTON®SA shock absorbers  
Force: 1000 kN  
Movement: +/- 50 mm  
Installation: 2012, by mageba

### Structure:

City: Leoben  
Country: Austria  
Type: Hospital building

A RESTON®SA shock absorber as fully installed, inside a protective housing.

