

Zurich Central Train Station (Switzerland)



Project description

Zurich Central Train Station is regarded as the world's most frequented station in terms of numbers of trains per day. Over 2'915 trains operate here per day, which means that a train arrives or leaves approximately every 25 seconds.

The construction material used for the structure is exposed to external impact such as temperature and humidity. Thanks to the application of expansion joints, the resulting movement forces (so-called „Restrains“) will be balanced and damages such as cracks in the structural components can be avoided. The joints, that were installed in the underground pedestrian area in 1990, had to be replaced. As a consequence, the Swiss Federal Railway (SBB) decided to install a solution without any future maintenance requirements as well as increasing comfort for the public.

More than 437'000 passengers pass through Zurich's central train station every day



mageba scope

mageba was selected to install +150 m of its flexible plug expansion joint system POLYFLEX®ADVANCED PU over night and within less than seven hours. This remarkably flexible installation had hence no effect on the hustle and bustle of the main station.

The application of a jointless passage represents an extensive reduction of effort for the contractor. In contrast to conventional joint systems, the particular plug expansion joint POLYFLEX®ADVANCED PU offers a new alternative especially in relation to agility, aesthetics and zero maintenance.

As well as for pedestrian zones and railway station buildings, this joint type is also ideal for use in multilevel car parks, airport buildings, shopping malls, hospitals and bridges.

Over-night-installation in the station's pedestrian area within less than seven hours



Highlights & Facts

mageba products:

Type: POLYFLEX®ADVANCED PU FSJ of type PA40 for buildings

Features: Movements of +26/–14 mm

Installation: 2015

Structure:

City: Zurich
Country: Switzerland
Type: New renaissance building complex

Completion: 1847

Owner: City of Zurich

Contractor: Swiss Federal Railway (SBB)

Architects: Jakob Friedrich Wanner (origin building)
T. and R. Haussmann (interior work)

The result offers more comfort for pedestrians and an extensive reduction of effort for the contractor

