

Gstaad railway viaduct (Switzerland)



Project description

The “chalet village” of Gstaad in the Swiss Alps is world famous for its scenic beauty and its charm. Much of the town’s charm is due to its well-maintained heritage – such as the railway viaduct near the town centre. This was constructed in 1905 to carry the railway line that was opened in 1905 to support the region’s booming tourism industry.

In 2011, after more than a century of service, the viaduct needed to be completely renovated. The structure was strengthened to enable it to withstand increased modern loading, and the work included measures to reduce noise emissions under railway traffic.

mageba scope

mageba supplied all of the bearings required to support the bridge deck. RESTON®POT Type TE (guided sliding) bearings at each end now resist the deck’s vertical loads and accommodate longitudinal sliding movements of +/- 25 mm, while RESTON®FORCE horizontal force bearings resist the transverse forces at these locations while allowing the same movements. LASTO®BLOCK Type NBe bearings support the deck at both internal pillars.

mageba also supplied four RESTON®STU shock transmission units, two for each end, which ensure the safe, controlled transmission of unusually large forces between the deck and the abutments.

Highlights & Facts

mageba products:

Type: RESTON®FORCE and RESTON®POT bearings, RESTON®STU shock transmission units, LASTO®BLOCK (NBe)

Installation: 2011

Structure:

City: Gstaad
Country: Switzerland
Type: Lattice girder railway viaduct

Construction: 1905

Renovated: 2011

Owner: Montreux–Oberland Bernois railway

Contractor: Burn & Künzi AG
Adelboden

Engineer: Wüst Rellstab
Schmid AG

Gstaad is located between Lausanne and Interlaken in western Switzerland



Two RESTON®STU shock transmission units at one end of the bridge deck



Installation of a LASTO®BLOCK (type NBe) bearing under one of the bridge’s main girders

