

Pont Neuf (Switzerland)



Project description

The new Aare Bridge was built to replace the old concrete bridge, constructed in 1949. The new structure blends into Aarau's distinctive cityscape and the natural environment of the Aare River while strengthening the region's transportation network. As a comprehensive bridge and riverbank design, the project has created an appealing urban space, and with its distinctive, elegantly curved arches it has become a new landmark.

An important aspect of the new bridge is its monolithic supporting structure, in which all of the components – pillar foundations, pillars, arches, flanks, roadway, parapets – create a uniform, seamless construction and are involved in supporting the load, which leads to an optimized and thus sustainable solution.

The 119 meter-long structure has a width of 17.5 m and carries two lanes, sidewalks on both sides and bicycle tracks.

Pont Neuf is situated in the town of Aarau in Switzerland



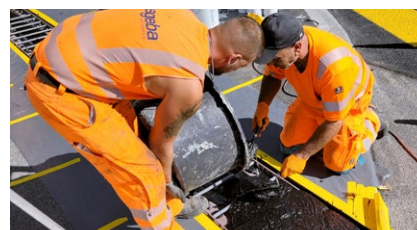
mageba scope

Since the bridge is in the immediate vicinity of residential areas, it was decided to use mageba's TENZA®POLYFLEX® Advanced PU plug joint, which is based on elastic polymers and characterized by "zero additional noise emission" caused by crossing traffic compared to the adjacent road surface. In total 50 m of type PA60 joint was installed.

The TENZA®POLYFLEX® joints are typically placed within the depth of a bridge's bituminous road surfacing, and can be easily installed in phases.

In addition to the plug type joint, 16 LASTO®BLOCK elastomeric bearings of type NBA were also installed to support the bridge structure.

Pouring of the TENZA®POLYFLEX® joint on Pont Neuf



Highlights & facts

mageba products:

Type: TENZA®POLYFLEX® Advanced PU
LASTO®BLOCK elastomeric bearings

Installation: 2021–2023

Structure:

Country: Switzerland
City: Aarau
Type: Concrete arch bridge
Built: 2019–2023
Length: 119 m
Owner: Kanton Aargau
Contractor: ARGE Kettenbrücke (Implenia, Rothpletz, Lienhard + Cie AG, Meier + Jäggi AG)

The newly installed TENZA®POLYFLEX® Advanced PU joint of type PA60

