

# Nantua-Neyrolles Viaducts (France)



## Project description

The French A40 motorway in eastern France is carried across a region of uneven terrain by two connecting viaducts – the Nantua Viaduct and the Neyrolles Viaduct. These haunched/box girder structures have a combined total length of 1785 m and pier heights of up to 86 m. Westbound traffic is carried by the original structure which was completed in 1988, while eastbound traffic is carried by a second structure that was completed in 1996. The original structure was subjected to extensive refurbishment works in 2011, including renewal of its expansion joints.

## mageba scope

The combined structure had expansion joints at four axes which needed to be replaced, with longitudinal movement requirements of up to 400 mm. TENSA®MODULAR expansion joints were selected for use, and designed with up to five individual movement gaps each. Due to the proximity of residential areas to the structure, all of the joints were equipped with noise-reducing sinus plates on their surface. By bridging across the joints' individual movement gaps, the sinus plates minimise vibrations under traffic, greatly reducing noise and also increasing driver comfort.

## Highlights & facts

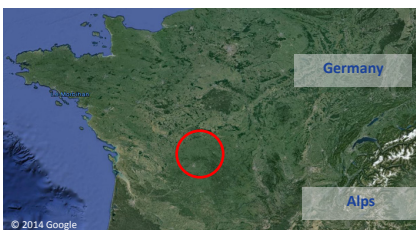
### mageba products:

Type: TENSA®MODULAR expansion joints  
Sensors: Noise-reducing sinus plates on surface  
Installation: 2011

### Structure:

City: Nantua  
Country: France  
Built: 1988  
Renovated: 2011  
Type: Highway viaduct  
Length: 1785 m

The viaduct is located close to the towns of Nantua and Neyrolles in eastern France.



A 4-gap TENSA®MODULAR expansion joint in the factory, showing its specified end detail.



A 5-gap TENSA®MODULAR joint during installation, bridged over for construction traffic.

