

Mamer Viaduct (Luxembourg)



Project description

The Mamer Viaduct in Luxembourg was built in 1982 to carry the local A6 motorway across a valley. The A6 forms part of European route E25, which connects Holland with Italy via Belgium, Luxembourg, France and Switzerland. The viaduct has a total length of 252 m, comprising eight equal spans of 31.5 m, and a height above the valley floor of up to 30 m.

After almost three decades of service under heavy traffic, the viaduct was renovated in 2010, with various works carried out including replacement of the expansion joints in its deck. In planning the works, it was vitally important to select replacement joints which could be installed with minimum disruption to traffic on this important route.

The viaduct carries European motorway E25 across Luxembourg's A6 highway.



mageba scope

The biggest expansion joints in the deck, at two locations, were replaced by TENSA®FLEX Type RC sliding finger joints. These are designed for movements of 400 mm, and thus referred to as type RC400. The individual finger plates of this joint can be installed by hand, lane by lane, making it ideal for expansion joint replacement works.

Four TENSA®CRETE Type RE single gap joints, allowing 80 mm movements, were installed at other bridge axes. These joints, whose steel edge profiles are connected to the deck by high-strength, quick-setting polymer concrete, are also ideally suited to bridge renovation works where disruption to bridge users must be minimised.



A TENSA®FLEX Type RC400 expansion joint during installation on first side of deck.

Highlights & facts

mageba products:

Type: TENSA®FLEX Type RC sliding finger joints, TENSA®CRETE Type RE single gap joints

Installation: 2010

Structure:

City: Mamer
Country: Luxembourg
Type: Highway viaduct
Built: 1982
Renovated: 2010
Length: 252 m
Contractor: Perrard

Completion of installation of TENSA®FLEX Type RC400 joint, after placing on second side of deck.

