

Junglinster Viaduct (Luxembourg)



Project description

The Junglinster Viaduct was constructed between 2012 and 2013 to form a new road crossing of the Aessebach Valley near the town of Junglinster. The five-span viaduct has a total length of 444 m, with three central spans of 111 m each and end spans of precisely half that length. Its three-lane deck, with a width of 17 m, has a maximum height of 30 m above the valley floor.

The prestressed concrete deck slab, of variable thickness, is supported by two longitudinal steel girder beams which were welded on site.

mageba scope

mageba supplied TENSA®MODULAR expansion joints to accommodate the deck's movements at each end. These are equipped with noise-reducing "sinus plates", which provide a smooth driving surface for vehicles, minimising vibrations and noise. The larger of the joints is of type LR5-LS, indicating that it has 5 individual movement gaps (and "LS" indicating sinus plates), while the other is of type LR4-LS (with 4 gaps). Thanks to the addition of the sinus plates to the surface, the allowable movement per gap increased from 80 mm to 100 mm, enabling the deck movement demands to be accommodated by joints with fewer movement gaps.

Highlights & facts

mageba products:

Type: TENSA®MODULAR expansion joints (types LR5-LS, LR4-LS)
Features: Noise-reducing "sinus plates" on surface
Installation: 2013

Structure:

City: Junglinster
Country: Luxembourg
Completed: 2013
Type: Deck truss road bridge
Length: 444 m

The viaduct crosses the Aessebach Valley near the town of Junglinster in Luxembourg.



A TENSA®MODULAR expansion joint (type LR4-LS), with sinus plates on surface, during installation.



Loading of the expansion joints onto a truck for transport to site.

