

## Ecoduct Kempengrens - Mol

### Project Details

#### Activities

Civil Engineering  
Bridges

#### Contractors

Willemen Bouw

#### Location

E34 kilometerpaal 57.8  
2400 Mol Belgium  
Antwerpen BE

#### Client

Agentschap Natuur en Bos,  
Agentschap Wegen en Verkeer,  
Provincie Noord Brabant Nederland

#### Architects

Agentschap Wegen en Verkeer  
Afdeling expertise beton en staal

#### Engineering Office

Agentschap Wegen en Verkeer,  
afdeling expertise beton en staal

#### Span

68m

#### Surface area above ground

4 250m<sup>2</sup>

#### Surface area subterranean

2 870m<sup>2</sup>

#### Construction period

11 months

#### Start work

08-2013



Franki Construct built the 'Kempengrens' ecodeuct [wildlife crossing] at the hamlet of Postel, in the municipality of Mol, which is near the Belgian-Dutch border. It is a bridge structure over the E34 that allows local fauna to get over the motorway in safety. The project is a collaboration between the Flemish and Dutch governments and aimed at reducing the negative impact on the local ecosystem caused by the man-made road infrastructure. The specific design and location of the bridge ensures maximum integration within the natural surroundings.

The minimum width of the ecodeuct is 60 metres and it features a special diabolo-like design that continues on into the land abutments. The walls are arched and refer to the twisting movement of snakes, being one of the animal types that will make frequent use of the ecodeuct. The bridge is constructed from reinforced, high-strength concrete (C40/50) and the land abutments from traditional, strong concrete (C35/40). The abutments have been conceived as a hollow volume, instead of a single, thick wall. The rounded shapes of the bridge, the hollow cavities in the abutments and the oval-shape of the central pillars demanded a specific type of shuttering. This ecodeuct is certainly not a standard bridge. Throughout the period of the construction work it was essential that the E34 motorway remained open in the direction of Antwerp and Eindhoven with respectively two and one lanes.

Some key figures:

**End of work**  
07-2014

32,000 m special fencing for fauna  
15,000 m<sup>3</sup> concrete  
1,325,000 kg reinforcements  
6,900 m pre-stressing (pipes)  
90,000 m<sup>3</sup> earth fill.

### Willemen Bouw



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Willemen Bouw was established on 30 April 2025 through the merger of Willemen Construct, Cosimco, Franki Construct and Tools.