



Case Study

Building a border junction for future highway

Road passages constructed as part of future motorway connecting Croatia and Hungary

THE CHALLENGE

As part of a larger motorway construction project in Croatia, there was a need for building two road passages. The project is a part of bigger expressway that will connect

the northwestern part of Croatia and the cities of Bjelovar and Virovitica with the Hungarian border and the corridors of other European roads.

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THE SOLUTION

The two road passages are under the expressway and the future highway. ViaCon's technology was chosen for the construction because of its flexibility and the simplicity of extending the structures to accommodate the next phase of the project.

The design specified that materials and structural details should require minimal maintenance and provide full functionality for a sufficiently long duration.

THE ADVANTAGE

The road passage project offered a number of benefits:

- The flexibility and simplicity of the solution enabled easy extension of the structure in the future, facilitating the next stage of construction
- Long service life
- Easy and short assembly time due to lightweight structural plates
- Sustainable, environmentally friendly steel solution, requiring no heavy equipment for installation and a lighter transport footprint

SPECIFICATIONS

- **Span:** 14.50m
- **Rise:** 5.15m
- **Plate thickness:** 7 mm + 5.5mm ribs (full circumference, every second ring)
- **Corrugation profile:** 381 x 140 mm
- **Corrosion protection:** Zinc coating and epoxy painting inside and outside

Investor: Joško Volf - Hrvatske Ceste d.o.o., HR

Supervisor: Miroslav Stojanović, Investinženjering d.o.o., HR

Designer of the structure and main project

documentation: Marko Rajić, Damir Lukačević and Dora Čaleta – RENCON d.o.o., HR

Designer of Executive/detailed project

documentation: Krešimir Ilić - RADIONICA MOSTOVA d.o.o., HR

Contractor: Mario Lasan, Petar Tomić and Igor Žilić – GEOTEKNIKA d.o.o., HR

Exclusive Representative for ViaCon in Croatia:

Duško Bjelotomić and Mario Bogdan – Protekta d.o.o., HR

Fabricator: ViaCon Polska Sp. z o.o., PL

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