FREYSSINET IN EUROPE

Bridge over Sarine
Broc, SWITZERLAND

Under ballast joint

General contractor
JPF Construction SA - Constortium Bulle-Broc

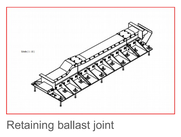
Customer/Owner
Transport Public Fribourgeois Infrastructure

Engineer
GVH Inénieurs

Freyssinet subsidiary
Freyssinet Products Company (Saint Eusebe)

Others subsidiaries
Freyssinet Suisse

Works period
Start date: April 2022
End date: May 2022



Retaining ballast joint

PROJECT DESCRIPTION
The bridge over the Sarine is a railway infrastructure of Transports Publics Fribourgeois. Built in 1985, the bridge connects the towns of Bulle and Broc.
The retaining ballast was developed during these long months by our design office (Steve Commeau/Eric Thibœuf) in partnership with GVH (Olivier Erard), who ensured, among other things, the coordination with the other elements (rail expansion device in curve).

FREYSSINET MISSION
Freyssinet supplied and fitted special, made-to-measure joints for retaining ballast and under ballast joints. These joints will thus make it possible to maintain the level of the rails stable despite the expansion of the structure over time. The particularity of this rail joint is to be curved, the expansion taking place asymmetrically transversely, it was therefore support the ballast to allow the installation of this device with the required slope.
FPC supply:
1 line under ballast
1 line retaining ballast

ILM of a Steel railway bridge over the Drava river
CROATIA

General contractor
Cengiz

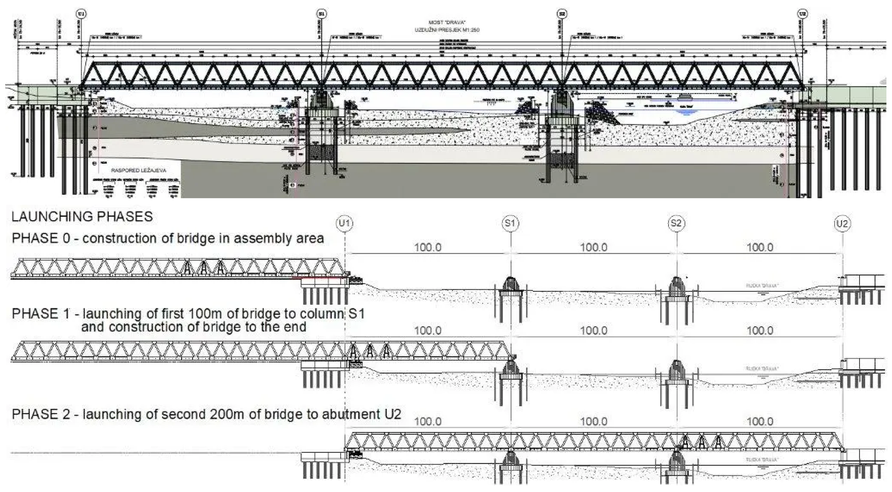
Customer/Owner
HŽ Infrastruktura d.o.o.

Freyssinet subsidiary
Freyssinet Adria SI d.o.o.

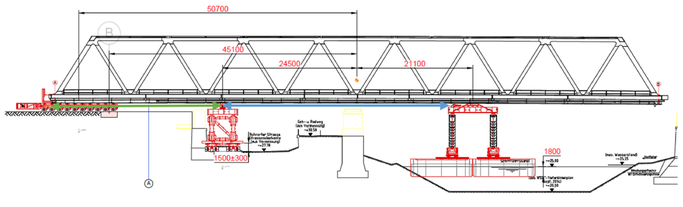
PROJECT DESCRIPTION
The bridge is part of an extensive, 3.6 billion € project to modernize and upgrade Croatian railway line between Hungary and the port of Rijeka. Currently, a 42 km section of the line from Hungary to Dugo Selo is under construction. It is located on the very beginning of the built section, practically on the border between Croatia and Hungary near a village called Botovo. This double-track steel bridge is a typical triangular steel truss construction with a total length of 300 meters. The static width of the bridge is 10.5 m, and the height is 10 m. It is supported by two end abutments and two river piers, which form three one-hundred-meter spans. The total weight of the installed and launched steel is around 4000 tons.

Deck type:	„Warren" truss
Deck length:	300 m
Theoretical deck width:	10,5 m
Theoretical deck height:	10,0 m
Spans:	3 x 100 m
Steel construction weight:	4000 t

FREYSSINET MISSION
Our scope of work covered the design, supply and installation of temporary launching equipment and execution of incremental launching.
We are also a supplier of Freyssinet TETRON SB ISOGLIDE spherical bearings.



Strand jack Support for Railway Bridge Launch
GERMANY



Heavy lifting - Pushing Underpass PESNICA
Pesnica pri Mariboru, SLOVENIA

General contractor
KOLEKTOR CPG

Customer/Owner
Ministrstvom za infrastrukturo – Direkcijo Republike Slovenije za infrastrukturo (DRSI)

Engineer
DRI

Freyssinet subsidiary
Freyssinet Adria SI d.o.o.

Works period
Start date: June 2022
End date: June 2022

PROJECT DESCRIPTION
Underpass Construction of aprox. 1000t was previously built outside the railway area.
After the closure of line and removing the embankment it was pushed into final position.
Pushing distance of 40 m was reached in 14 hours and within time limit of railway temporary closure.

FREYSSINET MISSION
- Cooperation with structure designer and integration of construction method in execution design
- Design of temporary structures for pushing and Method statement preparation
- Supply and installation of pushnig equipment
- Execution of pushing of the Underpass into final position

KEY SUCCESS FACTORS
Minimised disruptions, Project execution time, Technical added value

GRAND PARIS EXPRESS
Saclay, FRANCE

General Contractor
Vinci Construction

Customer/Owner
Societé de Grand Paris

Engineer
RATP

Freyssinet subsidiary
Freyssinet Products Company Italia S.p.A

Others subsidiaries
Freyssinet France GPCM

Works period
Start date: August 2021
End date: April 2023

PROJECT DESCRIPTION
This is one of the largest ongoing projects in Europe in the transport sector. It deals with the realization of nos. 4 new railway lines for a total of about 200 km.
It consists of a ring route around Paris (line 15) and lines connecting developing neighborhoods (lines 16, 17 and 18).
For this project FPC Italia, in collaboration with Freyssinet International & CIE, has been awarded the supply of more than 700 bearings divided between pot and spherical bearings. Some of them are equipped with a special mechanism for resisting uplift forces during service life of the bridge and other ones are equipped with load monitoring system to follow the behavior of the structure.

FREYSSINET MISSION
The project has been studied by our internal technical department to optimize the piers and beams construction.

KEY SUCCESS FACTORS
Technical added value, Quality, Price

ILM Viaduct SEJANCA
Ormož, SLOVENIA

General contractor
POMGRAD

Customer/Owner
DARS

Engineer
DRI

Freyssinet subsidiary
Freyssinet Adria SI d.o.o.

Works period
Start date: May 2019
End date: November 2019

PROJECT DESCRIPTION
The 195 meters long and 12 meters wide deck crosses a double-track railway and the Sejanca brook over six spans in total. The deck was built in 11 stages with a typical length of 17,5 meters and was pulled upwards into 3,43 % incline with aid of 24 meters long launching nose

FREYSSINET MISSION
- Designs for concrete and steel understructure of the casting yard
- Supply of ILM equipment
- Execution of ILM

KEY SUCCESS FACTORS
Project execution time, Technical added value