



## Project Fact Sheet

Two railway bridges on the route Žilina – Krásno at Kysucou



### PROJECT

<b>Project</b>	ŽSR, modernization of railway route Žilina – Krásno at Kysucou, bridges SO 33 302 and 33 307
<b>Client</b>	National Railway Authority
<b>Date of installation</b>	first bridge – 23 to 24.07. 2009, second bridge 25 to 26.09.2009
<b>Designer</b>	VG projekt s.r.o.
<b>Contractor</b>	Hastra s.r.o. for Skanskou BS a.s.
<b>Description</b>	construction of two railway bridges in stages, while maintaining traffic on the second track

### FACT FILE

<b>Structure</b>	OC 4,0m x 2,9m resp. 5,0 m x 1,8m frame precast system
<b>Span</b>	4,0m resp. 5,0m (internal)
<b>Height</b>	2,8m resp. 1,7m (internal)
<b>Length</b>	11,55m (3+3 rings of 1,91m) resp. 10,54m (3+3 rings of 1,74m)

### REQUIREMENTS

- Open structural solution, with no bottom slab and no dividing walls to interrupt the river flow
- Installation of bridges in stages, to allow continuous traffic on the second track
- Eliminating the risk of using in-situ structures and use of temporary bridges
- A fast track solution, based on short-term traffic closures established on short notices

### SOLUTION

- Open frame structures, without bottom slab
- Use of precast edge beams and wing-walls, for maximum speed of construction
- Installation of second half bridge in only several hours
- Working on half of the bridge, while traffic continued on the other line



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