



Flem Bridge, Flims

New structure

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Starting situation and idea

As part of the bypass around the town of Flims, a bridge was to be built above the Stenna valley between the Prau Pulté and Flimserstein tunnels at a height of 25m above the Flembach stream. The two tunnel portals and the roughly 70m long bridge were to visually form a single unit.

Challenges

One of the bays of the tunnel section was located on the bridge, which fixed the road width at 11.5m. Due to the steep 45° incline, the foundation could not be built into the slope. The cutter shield weighing 270t had to be pushed on the bridge before sealing and surfacing the road.

Approach

The 71m long Flem Bridge was designed as a skewed truss bridge with spans of 18.45m, 34.1m and 8.45m. Girder heights vary from 1.4m to 2m. The 12.5m-long transoms have a trapezoidal cross section. The abutments are integrated into the portals of the two tunnels and integrate them into a single unit.

Developer: Tiefbauamt Graubünden

Completion: 2002

Project type: New structure

Project author: Fanzun AG

Construction costs: CHF 2.9 Mio

Scope of services: Project Management, Civil Engineering

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