



## 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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+41 58 312 88 88  
fanzun.swiss