

Case Study

BW 5 rehabilitation of corrugated steel structure in Bad Friedrichshall

Rehabilitation of a pedestrian and cycle underpass using a pulled-in rehabilitation profile.

The Challenge

The project focused on making use of the existing structure and conserving resources, while avoiding disruption to traffic. A full replacement in concrete would have led to a road closure lasting several weeks. The rehabilitation method therefore needed to be fast, practical and carried out with minimal impact on traffic.

The Solution

ViaCon supplied a solution using the SWB 73 profile for the rehabilitation of the underpass. The rehabilitation profile was pulled into place using a chain excavator. Around 2,500 plastic caps were also used as part of the installation.

This approach enabled a fast, high-quality rehabilitation using corrugated steel. Compared with a new concrete replacement structure, the solution reduced cost and significantly limited traffic disruption. Installation was completed within 6 days, and the project was completed in March 2025.

The Advantage

- Existing structure reused – conserving resources
- No multi-week road closure, as a concrete replacement would have required
- Installation in 6 working days
- Lower cost than a new concrete replacement structure
- Low impact on traffic
- Galvanizing to DIN EN ISO 1461:2009, plus 240 µm epoxy-polyurethane coating on each of the inside and outside



Specification

Profile: SWB 73

Span: 5,662 mm

Height: 4,937 mm

Length: 28 m

Slope: 1:1.5 / 1:1.5

Angle: 90.00° / 90.00°

Plate thickness: 6.0 mm

Corrosion protection: 1 × 240 µm + 1 × 120 µm + 80 µm PUR

Static design basis: DIN EN 1991-2 + NA (D)

Net assembly time: 6 working days

Application: Pedestrian and cycle underpass



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