

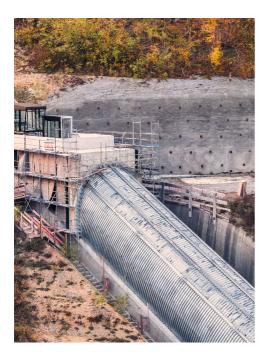
# The Challenge

Providing barrier-free access to a historic site required an enclosure for a passenger cable incline lift along a very steep gradient of approximately 46%. The structure had to be installed precisely between two fixed stations with near zero tolerance.

ensuring exact alignment and consistent internal clearances over nearly 40 meters of length. The heritage context demanded an aesthetically convincing, technically precise, and durable solution, assembled efficiently with minimum disruption to the site.







#### The Solution

ViaCon engineered and delivered a corrugated steel structural plate enclosure that is oriented perpendicular to the 46% slope and interfaces accurately with both terminal stations.

The system uses a robust 8 mm plate thickness and hot-dip galvanization to DIN EN ISO 1461:2009 for long-term protection. The modular plate approach enabled controlled tolerance management during assembly, ensuring a tight geometric fit while maintaining a refined exterior form compatible with the surroundings.

Close collaboration between the architectural firm, the construction company, and ViaCon enabled precise survey control, phased installation, and continuous quality checks across the full length and cross-section. The result showcases the versatility of corrugated steel structures for complex, heritage-sensitive applications - protecting the incline lift, improving user safety and comfort, and enabling barrier-free access.

### The Advantage

- · Barrier-free access to a historic landmark
- Precise geometry and near zero-tolerance fit between fixed stations
- Efficient on-site assembly (net time: eight weeks)
- Durable, hot-dip galvanized steel to DIN EN ISO 1461:2009
- Modular corrugated structural plate for controlled tolerances and installation efficiency
- A visually coherent, technically robust solution suited to steep-slope conditions

### **Specifications**

- Profile: VP2-Bspec57s
- Span: 6.02 m
- · Height: 5.09 m
- · Length: 39.61 m
- Orientation: Perpendicular to slope (~25°); angle 90°
- · Plate thickness: 8 mm
- Corrosion protection: Hot-dip galvanized acc.
  DIN EN ISO 1461:2009
- Net time of assembly: 8 weeks
- Intended use: Enclosure for passenger cable incline lift connecting lower and middle stations

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