



industrial building Freienbach

Flexural strengthening of concrete slabs

Location: Freienbach SZ, Schweiz

Year: 2019/2020

Contractor: SikaBau, re-fer AG

Engineering Consultancy: Kost+Partner, Sursee

Description

In the framework of a general renovation of an industrial facility, re-plate (in total over 250 m) strips were used as a flexural strengthening technique for reinforced concrete slabs. The strips with lengths ranging from 5 to 15 m were prestressed in the re-fer plant, delivered on site and installed at the defined location. After anchoring them against the concrete substrate with a Hilti direct fastening system, the strips were activated stepwise with an infrared heater up to 160°C. At the end, the resulting prestressing force was controlled with a “cross-bow” device. Fire protection is guaranteed due to SikaCem® Pyrocoat.

re-fer Product

re-plate

