Case study_2013_01



Shear reinforcement with S&P C-Sheet 640

Project: Migros distribution centre in Suhr, Switzerland (AG / CH)

Year: 2013

Background: In Suhr, Migros operates its largest distribution centre in the country. To optimize their

operation processes, the imposed loads in the main building were increased.

Statics: The statics investigation shows that the majority of the prestressed concrete beams need to

be reinforced partially against shear stress.

Solution: With one or several layers of S&P C-sheets 640 (E-modulus 640 kN/mm²), the lacking

reinforcement is applied onto the prepared substrate's surface. This carbon fibre mesh absorbs the shear forces as required, at a deflection of max. 2 per mille. The gradation of the sheets is carried out according to the framework model. The shear forces in the compression

zone are anchored using steel L-brackets.

Material consumption: Approx. 1'200 m² S&P C-Sheet 640 /

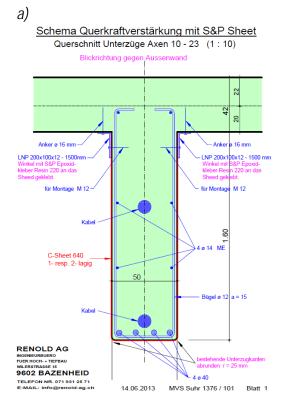
Timeframe: Approx. 4 months, in stages, without disturbing the centre's operation

Images: a) Reinforcement diagram

b) Partial reinforcement with anchoring in the ceiling

c) Sheets laminated with epoxy resin (S&P Resin 55), rounded edges

d) Partial reinforcement with anchoring in the ceiling (work in progress)





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