

Impact protection of columns with S&P A-Sheet 120

Project: Industrial building in Seewen, Switzerland (SZ / CH)

Year: 2013

Solution: The concrete columns in the warehouse storey need to be protected against impact damage. This must cover load combinations that include vehicles of up to 3.5 tons and forklift trucks. The static calculations show that the bottom 1.5 metres of the columns must be wrapped in a layer of S&P A-sheet 120. The reinforcement mesh, made from aramid fibres (E-modulus 120 kN/mm²), is stuck onto the prepared substrate with the vapour-permeable epoxy resin S&P Resicem, forming a load-transferring adhesive bond.

Material consumption: per column: 8 m² of S&P A-sheet 120 with a roll width of 300 mm

Images: *a) Marking the application surface, and chamfering the edges
b) Grinding the substrate and re-profiling the edges with S&P Repecem
c) Priming with S&P Resicem (vapour-permeable) and application of the S&P A-Sheets
d) Demonstration column showing the individual reinforcement work steps*

