

# HH columns make their first appearance

**The range of applications for high-performance concrete has considerably increased since the 1970s. Compressive strengths up to  $100\text{N/mm}^2$  have been obtained, but strengths over  $130\text{N/mm}^2$  are technically possible. By combining high-strength steel and high-performance concrete, so-called HH columns can be produced exceeding the requirements of normal standards and rules.**

**This project in Frankfurt Niederrad, Germany, demonstrated that both the mix design and the components used can only be effectively brought together by employing a rigorous quality assurance plan.**

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**T**he use of high-performance concrete cost-effective structures by enlarging the houses shops, a restaurant and conference