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Load-bearing behavior of connectors in extremely thin concrete components

Due to their high strength, textile reinforced concrete and other high performance concretes enable very slender and thin-walled load-bearing structures. However, the market offers only a few solutions for members with dimensions of less than 100 mm. Aim of the study is to analyse the load-bearing behaviour of anchors under relevant boundary conditions to be able to evaluate the potential range of application. The study includes literature review on design models as well as laboratory tests with various influence parameters (concrete strength, anchor geometry, anchor depth, edge distances, group actions and others).

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