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Design and prototype manufacturing of textile reinforced elements for facades

In recent years, facades made of high quality architectural concrete have been increasingly high in demand. This demand can be met with various production methods because of glass fibre reinforced concrete and the newly developed textile reinforced concrete. Both materials offer lots of design freedom regarding aggregate, surface finishing and forming. To achieve a generally economic solution, it is important to use material specific models for ULS and SLS design. Aim of the study is to design typical façade elements with specific materials models for fine grained concrete and reinforcement. The study should include prototype manufacturing and testing.

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