



Compare the Deformations on Concrete and Reinforcement Steel in Conventional and SCC Concrete Beams

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Abstract: Concrete such a composite material is practically more presented material in engineering structures. Development trends for high rise Building or structures, modern skyscrapers request the different workability of fresh concrete to cast in properly way and to achieve the requested results. The many of factors such are: highest of the cast concrete, sections of concrete elements, request the concrete with more plasticity and higher class of consistency, the smaller size of aggregate, the compacted process, *etc.* The fulfilling the previous condition, using the Self Compacted Concrete is one of the aims in this paper. Based on the requests, and also the behaviour of concrete in short and long term period, the presented experimental data provide the necessary information's for different results in comparing the conventional and using the SCC. The results based on the experiment in this paper present the difference in some of mechanical properties: modulus of Elasticity, Compression Strength; tensile strength –splitting method and the strains in testing period time $t=400$ days.

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