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RILEM State-of-the-Art Reports

Engineering : Building Materials

Llano-Torre, Aitor, Serna, Pedro (Eds.)

Round-Robin Test on Creep Behaviour in Cracked Sections of FRC: Experimental Program, Results and Database Analysis

State-of-the-Art Report of the RILEM TC 261-CCF

- Represents the current state of the art on creep testing procedure of FRC specimens
- Includes up-to-date results on creep in cracked section of FRC from main laboratories and universities
- Provides a RRT database which can be useful to further analysis

The book presents the work of the RILEM Technical Committee 261-CCF, which organized the challenging International Round Robin Test (RRT) on the creep behaviour of Fibre Reinforce Concrete (FRC) cracked specimens. Although different creep test methodologies have been developed in recent years, the absence of a standardised creep methodology hindered general comparisons. Therefore, the RILEM TC 261-CCF launched an ambitious international RRT program to improve the knowledge on long-term behaviour of cracked sections of FRC and assess all the different testing methodologies, assuming the big variability of testing criteria among the scientific community. The participation of 19 laboratories across 20 institutions in 14 countries all over the world enabled the realisation of the largest experimental campaign on creep in the cracked state. As a result of the RRT, an extensive database of creep test results was created containing comprehensive information from 124 cracked FRC specimens tested using different creep testing procedures in agreed conditions.

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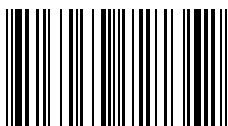
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