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Behavioural Approach of Concrete Prisms with Replacement of Reinforcement by Wiremesh

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Abstract : This paper presents the results of an investigation aimed at behavioural approach of concrete prisms with replacement of reinforcement by wiremesh in various grade of concrete. To accomplish this objective, an experimental program was conducted. The experimental program comprised, casting and testing of forty-eight prisms of total dimensions 500 X 100 X 100 mm consisting of no layer, one layer, two layer and three layer of 1.3mm thick welded wiremesh with spacing between welded wire mesh is 22mm and concrete grades with M20, M25, M30, M35. The results indicate that the use of wiremesh layers slightly increases the ultimate flexural load. The first crack load increased with the increase in the percentage of mesh reinforcement and the mesh layer thickness.
Key Words : Wire mesh, Flexural strength and crack width.

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