

Experimental Analysis of Composite Timber-Concrete Beam with CFRP Reinforcement

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Abstract : The paper deals with current issues in research of advanced methods to increase reliability of traditional timber structural elements. It analyses the issue of strengthening of bent timber beams, such as ceiling beams in old (historical) buildings with additional concrete slab in combination with externally bonded fibre - reinforced polymer. The paper describes experimental testing of composite timber-concrete beam with FRP reinforcement and compares results with FEM analysis.

Keywords : timber-concrete composite, strengthening, fibre-reinforced polymer, experimental analysis

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