

Analysis of Flexural Behavior of Wood-Concrete Beams

Authors : M. Li, V. D. Thi, M. Khelifa, M. El Ganaoui

Abstract : This study presents an overview of the work carried out by the use of wood waste as coarse aggregate in mortar. The paper describes experimental and numerical investigations carried on pervious concrete made of wood chips and also sheds lights on the mechanical properties of this new product. The properties of pervious wood-concrete such as strength, elastic modulus, and failure modes are compared and evaluated. The characterization procedure of the mechanical properties of wood waste ash are presented and discussed. The numerical and tested load–deflection response results are compared. It was observed that the numerical results are in good agreement with the experimental results.

Keywords : wood waste ash, characterization, mechanical properties, bending tests

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