

Contribution of Algerians Local Materials on the Compressive Strengths of Concrete: Experimental and Numerical Study

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Abstract : The evolution in the civil engineering and carried out more consumption of aggregates and particularly the sand. Due to the depletion of natural reserves of sand, it is necessary to focus on the use of local materials such as crushed sand, river sand and dune sand, mineral additions. The aim of this work is to improve the state of knowledge on the compressive strengths of crushed sands with several mixtures (dune sand, river sand, pozzolan, and slag). The obtained results were compared with numerical results obtained with the software Béton Lab Pro 3.

Keywords : crushed sand, river sand, dune sand, pouzzolan, slag, compressive strengths, Béton Lab Pro 3

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