

Accepted Manuscript

Mechanical performances of mortar prisms and concrete slabs incorporating rubber aggregates

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PII: S0093-6413(18)30180-0
DOI: <https://doi.org/10.1016/j.mechrescom.2018.08.013>
Reference: MRC 3305



To appear in: *Mechanics Research Communications*

Received date: 30 March 2018
Revised date: 24 July 2018
Accepted date: 17 August 2018

Please cite this article as: Alessandro P. FANTILLI , Bernardino CHIAIA , Mechanical performances of mortar prisms and concrete slabs incorporating rubber aggregates, *Mechanics Research Communications* (2018), doi: <https://doi.org/10.1016/j.mechrescom.2018.08.013>

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Mechanics Research Communications. Year	Publication Office: Elsevier UK
Editor-in-Chief: A. Rosato New Jersey Institute of Technology, Newark, New Jersey, USA Anthony.Rosato@njit.edu	

HIGHLIGHTS

- Rubber particles are used herein to substitute the aggregates of concrete and mortars
- Three point bending tests are performed on mortar prisms and concrete slabs
- The results of the tests depend on the structural scale and particle size
- Fracture toughness always increases in presence of rubber
- For large particle size, the increment of ductility can increase the flexural strength

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