

Accepted Manuscript

Structural effects on compressive strength enhancement of concrete-like materials in a split Hopkinson pressure bar test

E.A. Flores-Johnson , Q.M. Li

PII: S0734-743X(16)30470-5
DOI: [10.1016/j.ijimpeng.2017.08.003](https://doi.org/10.1016/j.ijimpeng.2017.08.003)
Reference: IE 2968



To appear in: *International Journal of Impact Engineering*

Received date: 26 July 2016
Revised date: 8 February 2017
Accepted date: 5 August 2017

Please cite this article as: E.A. Flores-Johnson , Q.M. Li , Structural effects on compressive strength enhancement of concrete-like materials in a split Hopkinson pressure bar test , *International Journal of Impact Engineering* (2017), doi: [10.1016/j.ijimpeng.2017.08.003](https://doi.org/10.1016/j.ijimpeng.2017.08.003)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlight

- All possible structural factors that may influence SHPB measurement of dynamic increase factor (DIF) for concrete-like materials are evaluated using reliable numerical modelling.
- Two independent mechanisms (i.e. end friction and radial inertia) that may generate lateral confinement in a SHPB specimen are clearly demonstrated.
- A general understanding about the interactions among various structural factors and corresponding mechanisms for the structurally-produced DIF is presented.
- This study is important for the correct interpretation of SHPB measurements on concrete-like materials.

Download English Version:

<https://daneshyari.com/en/article/5015451>

Download Persian Version:

<https://daneshyari.com/article/5015451>

[Daneshyari.com](https://daneshyari.com)