

Accepted Manuscript

Effect of Steel Fibers on Static and Blast Response of High Strength Concrete

B. Luccioni , F. Isla , R. Codina , D. Ambrosini , R. Zerbino ,
G. Giaccio , M.C. Torrijos

PII: S0734-743X(16)30056-2
DOI: [10.1016/j.ijimpeng.2017.04.027](https://doi.org/10.1016/j.ijimpeng.2017.04.027)
Reference: IE 2915



To appear in: *International Journal of Impact Engineering*

Received date: 3 March 2016
Revised date: 26 April 2017
Accepted date: 30 April 2017

Please cite this article as: B. Luccioni , F. Isla , R. Codina , D. Ambrosini , R. Zerbino , G. Giaccio , M.C. Torrijos , Effect of Steel Fibers on Static and Blast Response of High Strength Concrete, *International Journal of Impact Engineering* (2017), doi: [10.1016/j.ijimpeng.2017.04.027](https://doi.org/10.1016/j.ijimpeng.2017.04.027)

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.

Highlights

- Results from static and blast tests on HSFRC elements are presented.
- Blast tests with different scale distances and contact explosions are reported
- Effect of hooked end steel fibers on static and blast behavior of HSFRC is analyzed
- Fiber addition can change response and type of failure of HSC under blast loads
- Hooked end steel fibers help controlling flexure cracks, erosion and spalling.
- The improvements in flexural response are more important than in spalling control.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5015584>

Download Persian Version:

<https://daneshyari.com/article/5015584>

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