

Accepted Manuscript

Hybrid Corrugated Members Subjected to Impact Loading:
Experimental and Numerical Investigation

Mohammad Nassirnia , Amin Heidarpour , Xiao-Ling Zhao ,
Rui Wang , Wei Li , Lin-Hai Han

PII: S0734-743X(18)30016-2
DOI: <https://doi.org/10.1016/j.ijimpeng.2018.09.009>
Reference: IE 3171



To appear in: *International Journal of Impact Engineering*

Received date: 7 January 2018
Revised date: 7 September 2018
Accepted date: 7 September 2018

Please cite this article as: Mohammad Nassirnia , Amin Heidarpour , Xiao-Ling Zhao , Rui Wang , Wei Li , Lin-Hai Han , Hybrid Corrugated Members Subjected to Impact Loading: Experimental and Numerical Investigation, *International Journal of Impact Engineering* (2018), doi: <https://doi.org/10.1016/j.ijimpeng.2018.09.009>

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

- Dynamic behaviour of Hybrid Corrugated Members was investigated
- Axially pre-stressed UHS steel tubes were examined under transverse impact loading
- Advanced 3D nonlinear finite element models were developed and validated
- Corrugation geometry parameters effect on lateral impact behaviour was studied
- The performance of HC Members was demonstrated compared to corrugated members

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/10133818>

Download Persian Version:

<https://daneshyari.com/article/10133818>

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