

Accepted Manuscript

UHP-SFRC panels subjected to aircraft engine impact: experiment and numerical simulation

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PII: S0734-743X(16)30690-X
DOI: [10.1016/j.ijimpeng.2017.07.012](https://doi.org/10.1016/j.ijimpeng.2017.07.012)
Reference: IE 2959



To appear in: *International Journal of Impact Engineering*

Received date: 18 September 2016
Revised date: 5 July 2017
Accepted date: 9 July 2017

Please cite this article as: T Zhang , H Wu , Q Fang , T Huang , Z M Gong , Y Peng , UHP-SFRC panels subjected to aircraft engine impact: experiment and numerical simulation, *International Journal of Impact Engineering* (2017), doi: [10.1016/j.ijimpeng.2017.07.012](https://doi.org/10.1016/j.ijimpeng.2017.07.012)

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Highlights

- A series of aircraft engine model impact test on UHP-SFRC panels was conducted.
- The fine FE model of UHP-SFRC was established by proposing a mesoscopic approach.
- The present test was better reproduced by mesoscopic approach than macroscopic homogenous approach.
- A modified empirical formula for predicting the engine missile residual velocity was presented.

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