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Static and dynamic bending collapse of thin-walled square beams with tube filler

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Highlights

- A type of tube filler is suggested with good cost-effectiveness and easy availability.
- Quasi-static and dynamic three-point bending tests are performed for the beams.
- Numerical analyses are carried out to simulate the static and dynamic tests.
- The influences of some factors on performance of tube-filled beams are investigated.
- Tube filler outperforms foam filler in performance improvement of empty beams.

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