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**1. Introduction**

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**Fig. 1.** The input and response signals measured in the forward process.

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**Table 1.** Properties of materials.

|  |  |
| --- | --- |
| Materials | Properties |
| Concrete | Compressive strength (MPa) | 30 |
| Modulus of elasticity (GPa) | 26.4 |
| Steel bar | Yield strength (MPa) | 400 |
| Modulus of elasticity (GPa) | 200 |
| Glass fiber sheet | Tensile strength (MPa) | 575.8 |
| Modulus of elasticity (GPa) | 32.2 |
| Fracture strain | 0.0167 |
| Design thickness (mm) | 0.77 |

**Table 2.** Natural frequencies of a cantilevered periodic lattice beam.

|  |  |
| --- | --- |
| Boundary conditions | Natural frequency (Hz) |
| *ω*1 | *ω*2 | *ω*3 | *ω*4 | *ω*5 |
| Clamped-free | 0.30 | 1.76 | 4.42 | 7.53 | 10.77 |
| Simply-simply supported | 0.96 | 3.36 | 6.39 | 9.59 | 12.81 |

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**4. Conclusion**

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