

LIGHTWEIGHT REFERENCE FLOOR: IMPACT NOISE INSULATION

Client: AMC

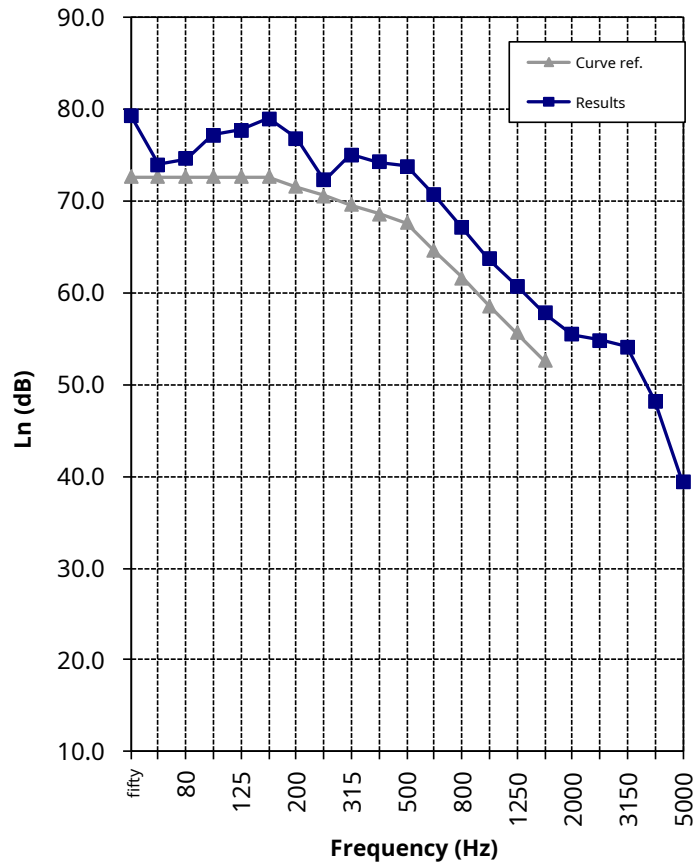
Sample identification:

Reference light slab composed of: 22 mm chipboard board + 12x18 cm section wooden beams + 24 mm thick wooden battens with mineral wool (100 mm) in the gaps between beams + laminated gypsum board of 12.5mm thickness

Total thickness: 230 mm

Surface mass: 45.5 kg / m^{two}

| <i>Freq.</i> <i>F</i> <i>Hz</i> | <i>Ln</i> <i>dB</i> |
|---------------------------------------|------------------------|
| <i>fifty</i> | 79.3 |
| 63 | 74.0 |
| 80 | ≤ 74.6 |
| 100 | 77.2 |
| 125 | 77.7 |
| 160 | 79.0 |
| 200 | 76.9 |
| 250 | 72.3 |
| 315 | 75.0 |
| 400 | 74.3 |
| 500 | 73.8 |
| 630 | 70.7 |
| 800 | 67.1 |
| 1000 | 63.7 |
| 1250 | 60.8 |
| 1600 | 57.8 |
| 2000 | 55.4 |
| 2500 | 54.9 |
| 3150 | 54.1 |
| 4000 | 48.2 |
| 5000 | 39.3 |



Global impact noise calculated according to ISO 717-2: 2013.

$L_n, w (CI) = 70.6 (0) \text{ dB}$

Evaluation based on laboratory measurement results obtained using an engineering method