HUSH UK - Case Studies

HUSH MAT 15

BEFORE AND AFTER TEST DATA - HARDWOOD FLOORING VS CARPET

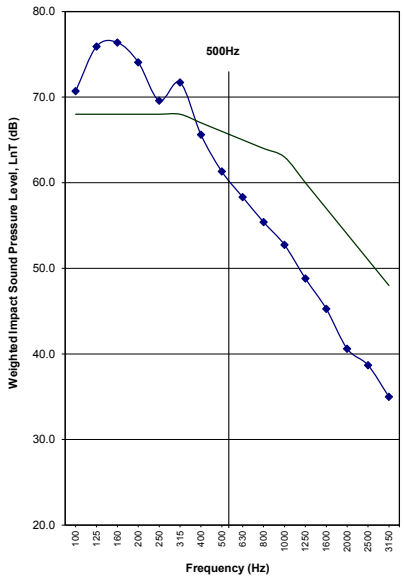
Before and After Sound Testing carried out within an existing block of apartments in Kensington, London with a proposed change in floor finishes from carpet to a hard wood floor. The tenant's lease of the building dictates that a change in floor finish is not permitted due to potential sound transmission problems to connected properties. The change in floor finish was accepted when a suitable acoustic resilient layer with added mass and resilience was introduced in line with Building Regulations: Approved Document E: 2003 to reduce sound transmission typically associated with timber floors.

Hush Mat 15 was introduced to decouple the hard wood floor from the existing floor structure.
Floor Construction: Hardwood floor finish 15mm, Hush Mat 15 acoustic underlay, existing timber structural deck and existing ceiling.

The following test data highlights the impact performance improvement before and after the introduction of hard wood floor and acoustic layer. An increase in Airborne Performance was also noted.

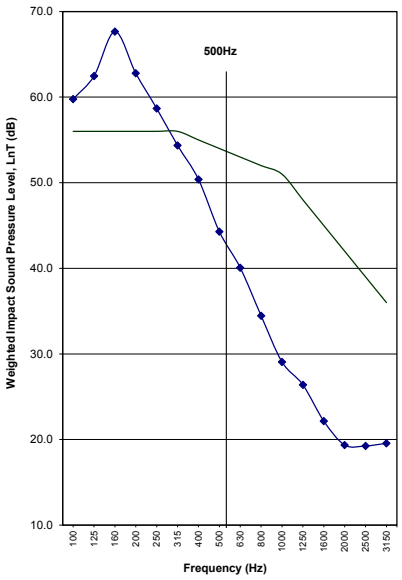
BEFORE *LnTw = 66 dB*

Frequency range according to the curve of reference values (ISO 717-2)



AFTER *LnTw = 54 dB*

Frequency range according to the curve of reference values (ISO 717-2)



ACOUSTIC ACHIEVEMENTS

An improvement in acoustic performance was achieved by introducing the Hush Mat 15. The before and after test results shown in this case study detail the improvement in acoustic performance achieved by using the Hush Mat 15 under the engineered floor.

Fast Facts

Client: Block of apartments in Kensington

Duration: The total refurbishment project from start to finish lasted approx. 4 months.

Location: Kensington, London

Region: South England

Sector: Residential

Products Used

- Hush Mat 15

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