

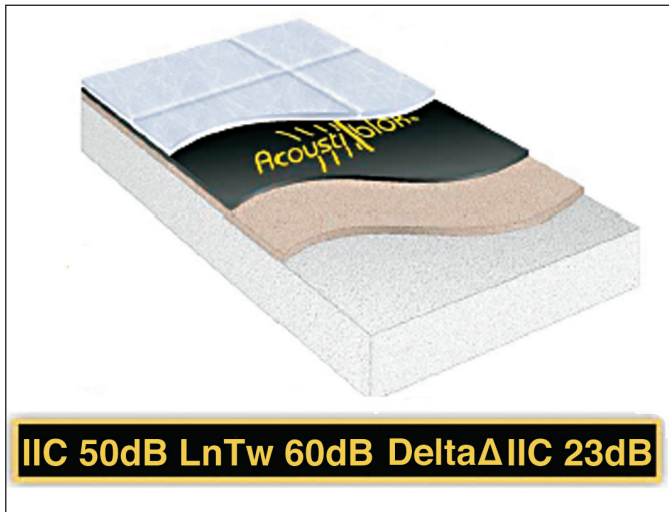


Acoustiblok® sound insulation

Uniclass L68161:P7113	EPIC F852:X724
C1/SfB	
Ln6	(P2)

Acoustiblok UK Limited

## 150mm Concrete Slab Floor/Ceiling overlaid with Quarry Tile on 3mm Acoustiblok/Acoustiwool



**IIC 50dB LnTw 60dB DeltaΔIIC 23dB**

### Dimensions

- **Weight:** 425.56kg/m<sup>2</sup>
- **Thickness:** 167mm
- **Content:** 43% recycled materials

### Assembly Construction

- 12mm (27.3kg/m) Unglazed Clay Quarry Tile
  - 3mm Sound Isolation Membrane.
  - Acoustiwool Underlay.
  - 152mm (366Kg/m<sup>2</sup>) Reinforced Concrete Slab
- Note:** No ceiling Assembly Beneath The Slab

### Testing Establishment

#### Intertek/ETL Report No. 3102643CRT-001a

Intertek/ETL SEMKO found this floor to have an Impact Insulation Class (IIC) of 50. This exceeds typical specification for impact sound control in floor/ceiling construction.

Controlling noise from the impact of hard objects on tile floors is a very difficult problem in construction. Acoustiblok provides an economical and 'low impact' solution.

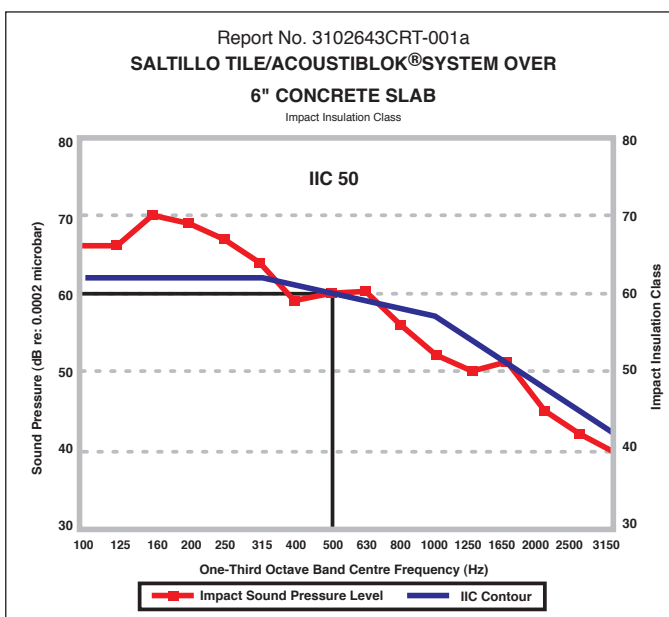
The 150mm concrete slab, without tile and Acoustiblok, was found to have an IIC of only 28 which does not meet typical specifications for impact sound isolation in floor/ceiling construction. Our simple acoustical treatment added 23dB of Impact Sound Insulation (DeltaΔ Floor IIC).

### Performance

- Delta Δ Floor IIC 23dB
- Impact Insulation Class (IIC) 50dB
- LnTw (Calculation = 110-IIC) 60dB

#### Independently Tested Sound Transmission Loss Reference

Frequency	100Hz	125Hz	160Hz	250Hz	500Hz	1000Hz	2500Hz	3150Hz
Ln	66dB	66dB	70dB	67dB	60dB	52dB	42dB	40dB



Impact Insulation Class (IIC) is a single number rating used to compare the performance of floor/ceiling partitions in blocking impact noise, such as footsteps and dropped objects. The higher the IIC rating number, the better the performance. An IIC of 50 is usually considered the minimum for preventing noise complaints in residential building. IIC ratings are calculated by a method similar to STC ratings.

The IIC of a particular floor assembly is derived using a standard tapping machine, as stipulated in ASTM method E492.3 This machine incorporates five steelfaced hammers that strike the test floor and generate noise in a room below. The noise levels are measured and used to calculate the Impact Insulation Class (IIC), following ASTM method E989.

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