

Uniclass L68161:P7113	F8	EPIC 52:X724
CI/SfB		
	Ln6	(P2)

Acoustiblok UK Limited

Timber Joist Floor with Hardwood Floor/Gypcrete/Acoustiwool/3mm Acoustiblok



Dimensions

- Weight: Data unavailable
- Thickness: 501mm
- Content: 43% recycled materials

Assembly Construction

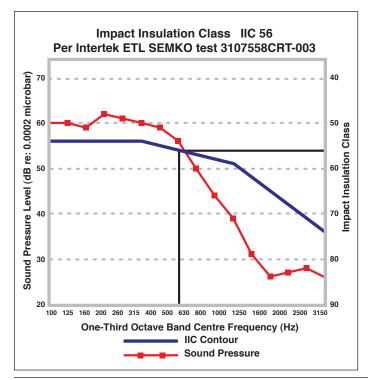
- 18mm Hardwood Oak Flooring.
- 3mm Acoustiblok Isolaton Membrane.
- Acoustiwool Underlay.
- 40mm Gypsum Concrete.
- 15mm T&G Plywood Sub Floor.
- 400mm x 50mm Timber Joists with 75mm Fibreglass within cavities.
- 10mm Resilient Channel.
- 15mm Drywall Plasterboard.

Testing Establishment

Intertek ETLSemco Report No: 3107558CRT-003 Intertek ETL SEMCO rates this floor configuration with an IIC (Impact Insulation Class) of 56 dB, and an STC (Sound Transmission Class) of 54. See report graphs below, which show the performance of this configuration relative to noise source frequencies.

Independently Tested Sound Transmission Loss Reference

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Frequency	100Hz	125Hz	160Hz	250Hz	500Hz	1000Hz	2500Hz	3150Hz
Ln	60dB	60dB	59dB	61dB	56dB	39dB	28dB	26dB



Performance

- Sound Transmission Class 54dB
- Impact Insulation Class 56dB
- LnTw (Calculation = 110-IIC) 54dB

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 (see description of STC over).

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 steel-faced 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.

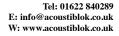
The Oasts Church Farm Estates Ulcombe Kent ME17 1DN

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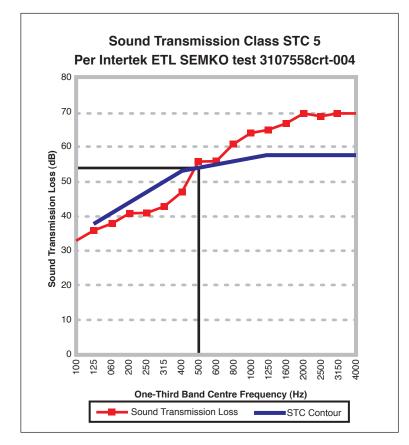




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Sound Transmission Loss data for wooden floor/ceiling assembly with Gypcrete, Acoustiwool, Acoustiblok, and resilient channel, STC 54 rated.

SOUND TRANSMISSION CLASS is a single number that represents the sound blocking capacity of a partition such as a wall or ceiling.

STC numbers are often referred to in architectural specifications, to assure that partitions will reduce noise levels. For performance similar to laboratory test numbers, it is necessary to adhere closely to the construction materials and techniques used in the tested partition.

STC calculations emphasize sound frequencies that match the human voice. A high STC partition will block the sound of human speech, and block noise that interferes with human speech. A high STC number may not indicate a partition that is effective in blocking very low or very high pitched sound.

STC measures sound blocking for airborne noise source only; it does not indicate how well a partition can block impact noise (objects striking the far side of the partition), or directly transmitted noise such as machinery mounted on the far side of the wall.

STC is calculated by comparing the actual sound loss measured when 18 test frequencies pass through a partition, with fixed values for each STC level. The highest STC curve that the measured sound loss numbers fit under, determines the STC rating of the tested partition.