



We've all fallen victim to the distractions and disruptions brought about to us by unwanted external noise. Whether it be the honking of cars outside your office window, a screeching train passing by your house at all hours of the day, or the roar of planes flying overhead, many find themselves combating sleepless nights and unfinished work simply from unwanted noise alone. As a result, home and business owners often find themselves shopping for soundproofing for their spaces.

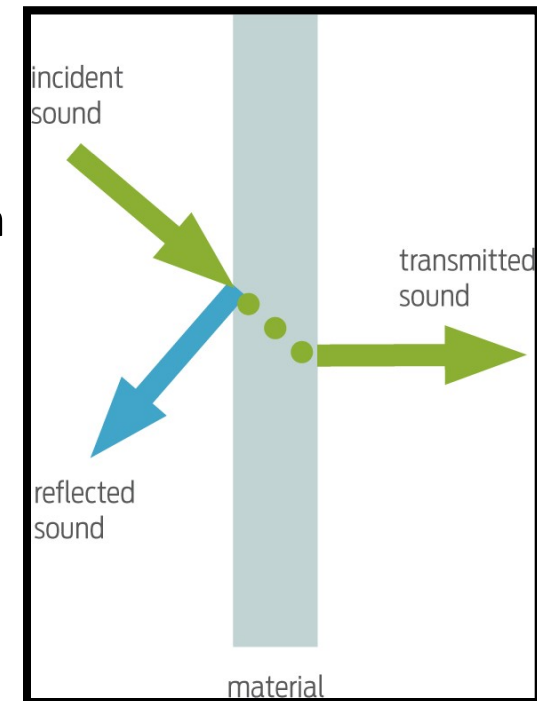


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## OUTDOOR-INDOOR TRANSMISSION CLASS (OITC)

**Outdoor-Indoor Transmission Class (OITC)** is a measurement that indicates the rate of transmission of sound between an outdoor and indoor space. This form of measurement was created to best determine the level of performance of products in eliminating exterior noise, which can often permeate barriers through heavy, low frequencies. Additionally, OITC ratings are used to determine how capable products are for use in low frequency sensitive areas. The OITC rating scale captures transmission loss results between 80 and 4,000Hz.

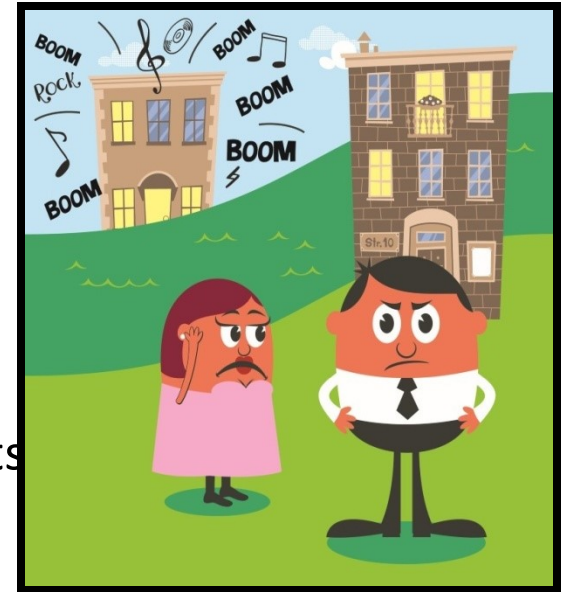


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## HOW IS OITC MEASURED?

Just as STC ratings are measured, OITC is determined based on the sound intensity lost through a barrier and captured in decibels. For example, a passing Truck may register at 105 dB to a person standing outside on the platform waiting to board. On the other hand, someone in a nearby office building may only register 80 dB due to the barrier of their door or windows. The 25 dB difference represents the transmission loss as a result of the amount of sound absorbed by the door or window.



**OITC** ratings are calculated over the frequency range of **80 to 4000** Hz, and are weighted more towards low frequencies. OITC is used to measure low frequency sounds like a neighbor's bass-heavy music or planes flying overhead.

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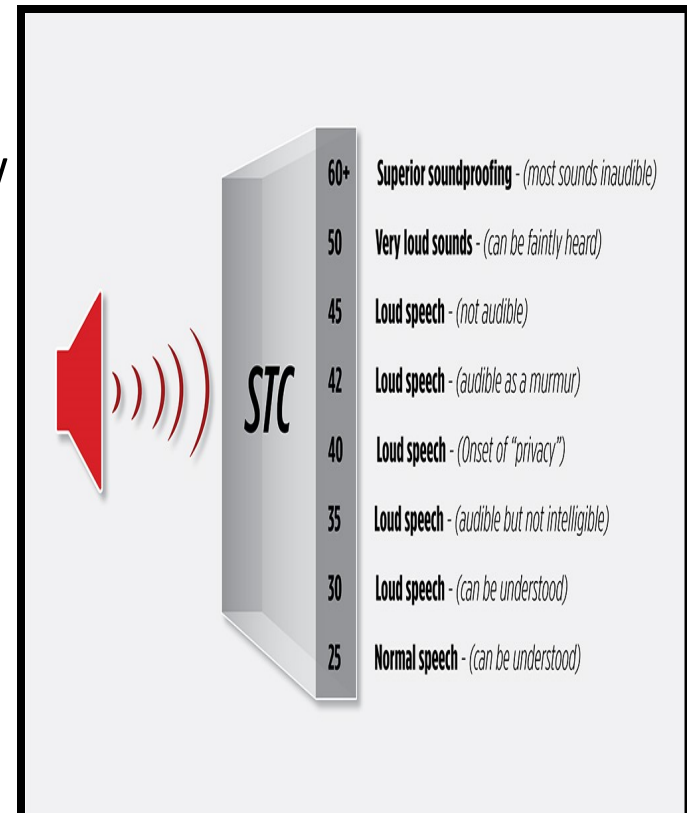
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## WHAT IS SOUND TRANSMISSION CLASS (STC)

**STC** stands for Sound Transmission Class. It is the ability of a product or material to reduce the transmission of sound between rooms. It measures how much sound a wall, door, window or ventilation system, for instance, will block noise from getting through to the other side.

### **STC (Sound Transmission Class)**

is a method of comparing how well windows, doors, floors, walls and ceilings are at reducing sound transmission. It measures the decibel (dB) decrease as sound passes through or is absorbed or blocked by material or wall.



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## STC OR OITC?

The STC (Sound Transmission Class) rating deals in the interior building partitions that are subjected to the noises that are in mid range and in high range frequency. The STC is calculated for frequency range of 125 to 4000 hertz.

The OITC (Outdoor-Indoor Transmission Class) deals in the exterior walls and the elements related (windows & doors). The OITC is calculated for the frequency range of 80 to 4000 hertz.

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## SUNROCK STONEWOOL EXTERIOR ACOUSTIC INSULATION

Our hearing range is between 20 and 20,000 Hz, and it's most sensitive to sounds in the 1000 Hz range. Sound insulation can help improve our comfort and even our health.



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## SUNROCK AIB 6075

**SUNROCK AIB 6075** are made of stone wool, so are also water, moisture and rot resistant. The 75 mm thick board is a lighter weight product which doesn't prevent them from being a heavyweight in noise transfer reduction. The AIB6075 has mid and high range frequency ratings of OITC is 31 and can be used inside walls, ceilings, and floors or as framed panels. It is more flexible (less rigid) than the board products, so can be used to wrap as well.



PRODUCT	THICKNESS (MM)	CONSIDERED LAYER	OITC	STC	DIMENSIONS
<u>SUNROCK AIB 6075</u>	75	2	31	50	1000mm x 500mm

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## Fire Performance

### CLASS I

No propagation of flames when the

surface is entertained by fire.

(According to EN 13501 – 1)

## EUROCLASS A 1 s0 d0

According to ASTM E 84/UL723

### CLASS A

Flame Spread Index 0

Smoke Developed index 0

## Water Repellency

According to BS 2972 absorbs less than 1%

According to ASTM C 1104 C 612 & is 8183 absorbs less than 1%

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