

# SOUND TRANSMISSION CLASS ROOM



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Sound Transmission Class Room (STC Room) is for building materials testing. This room is design and build under education standard. With today with growing focus on noise-control issues and the emergence of sound quality as an important aspect of product design, acoustic material testing is becoming increasingly relevant to engineers, designers and manufacturers from a broad range of industries.

For example, it is crucial to predict the impact of using specific noise-control materials at an early stage in building up a new building or to development a machine or equipment. Simulation software can help to make the prediction, provided that the acoustic characteristics of the materials are accurately known.

Acoustic material testing is the process by which the acoustic characteristics of materials are determined in terms of absorption, reflection, impedance, admittance and transmission loss. There is a range of standards covering acoustic material testing prescribing well-defined acoustical conditions and special instrumentation to ensure accuracy and repeatability.



STC Room with  
Loudspeaker and Microphone

## Technical Specification: -

<b>Model</b>	: STC - TR - 401	<b>Test Opening Size</b>	: 1 sq m
<b>Single Room Size</b>	: 2.1 (L) x 1.8 (W) x 2.1 (H) m	<b>Standard Sample</b>	: 1 m x 1 m
<b>Double Room Size</b>	: 2.1 (L) x 3.6 (W) x 2.1 (H) m	<b>Standard</b>	: Design Similar to ISO 2631 / ISO 717 / ISO 9614 but in a Smaller Room
<b>Acoustic Door Size</b>	: 0.9 (W) x 2.0 (H) m	<b>Measurement Test</b>	: Sound Transmission Loss
<b>Back Ground Noise</b>	: Less Than 35 dB (A) Inner Noise	<b>Wall Thickness</b>	: 50 mm
<b>Material</b>	: SS Acoustic Panels	<b>Vibration Isolator</b>	: Flexible Rubber Padding