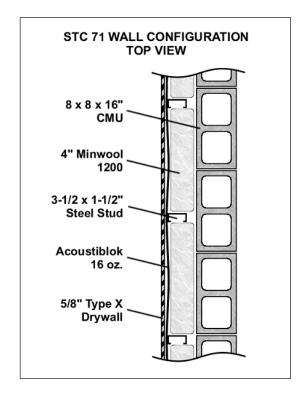






Superior STC Block Wall Configuration: Acoustical Data



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

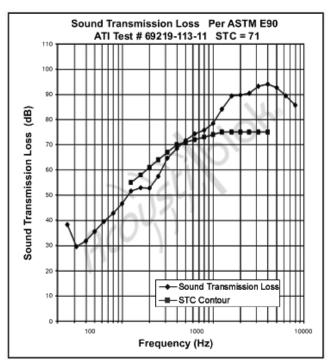
STC is calculated by comparing the actual sound loss measured when 18 test frequencies pass through a partition, with fixed values for each STC level. The highest STC curve that the measured sound loss numbers fit under, determines the STC rating of the tested partition.

The acoustical laboratory at Architectural Testing Inc. recorded a remarkable STC of 71 for this wall design. This is a noise reduction in excess of 98% to human hearing.

"Both the STC 71 and 85 ratings for Acoustiblok exceed the testing capabilities of most laboratories," - Kurt A. Golden, test administrator

The tested assembly: 8 x 16" concrete block, steel 2x4 studs spaced 1/2" from the block, with 4" Minwool insulation, and Acoustiblok under the drywall.

For applications where exceptional performance in sound isolation is a requirement, specify this Acoustiblok configuration as the most practical and economical option in the market.



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. To estimate high and low frequency performance, consult the Sound Transmission Loss graph included in STC test reports. STC does not indicate how well a partition can block impact noise (objects striking the far side of the wall), or directly transmitted noise such as machinery mounted on the far side of the wall - Impact Insulation Class (IIC) measure transmitted impact noise, and are normally specified for floor/ceiling assemblies only.

Acoustiblok, Inc. Ph: 813.980.1400 Fax: 813.849.6347