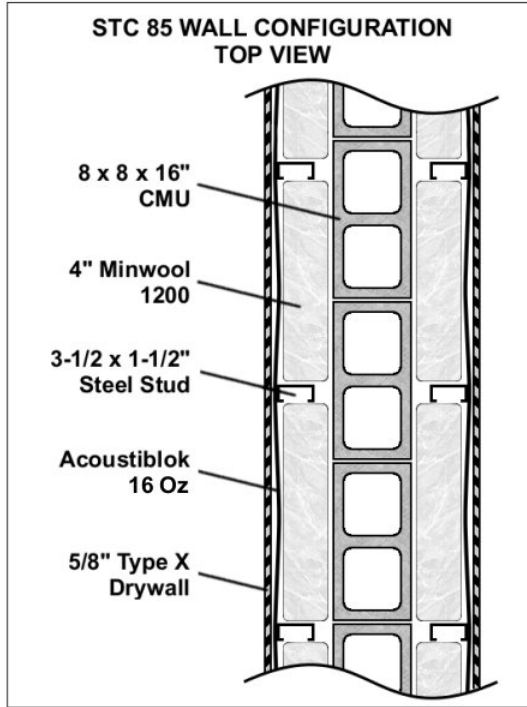


**Maximum STC Block Wall Configuration: Acoustical Data**



The acoustical laboratory at Architectural Testing Inc. recorded a remarkable **STC of 85** for this wall design. This is a noise reduction well in excess of 99% to human hearing.

"We have never tested a wall assembly that achieved a rating this high." - Kurt A. Golden, test administrator, Architectural Testing Inc..

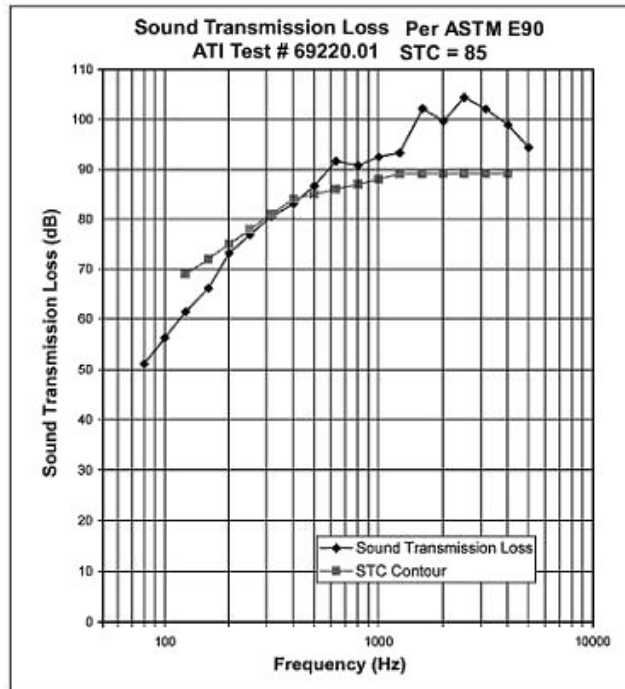
The tested assembly: 8 x 16" concrete block, steel 2x4 studs spaced 1/2" from the block, with 4" Minwool insulation and Acoustiblok under the drywall, on both sides of the block wall.

For applications where extreme high performance sound isolation is a requirement, this configuration with Acoustiblok is the most practical and economical option in the market.

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.



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) measures transmitted impact noise, and is normally specified for floor/ceiling configurations only..