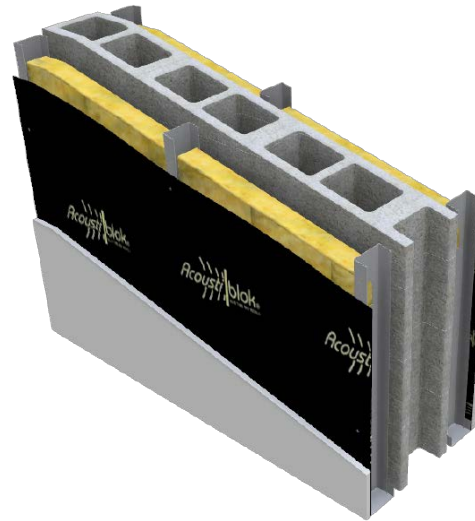
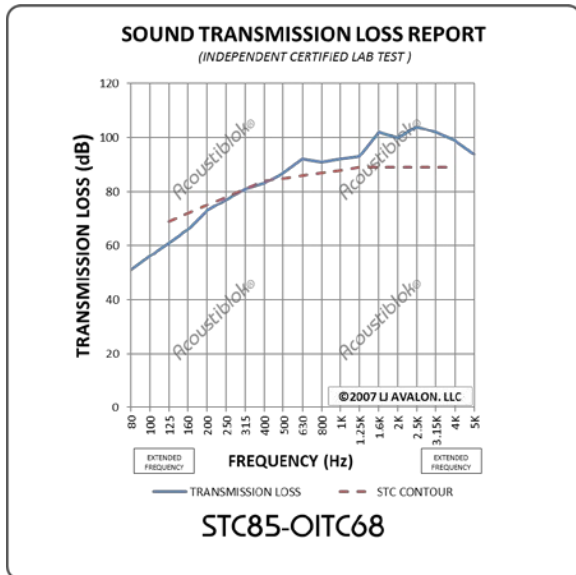


## Document Name

### STC85 Rated Assembly – 1 Layer of Blok16, QuietFiber & Drywall on Steel Stud and Concrete Block Wall

Independent testing services have rated this wall configuration with an STC85.

The tested assembly consisted of two layers of Blok16 attached to steel stud wall 24" on center, with QuietFiber between the studs and gypsum drywall boards screwed 24" on center edges to each side of the assembly, backed up to standard 8" hollow block wall.



**Sound Transmission Class (STC)** is a single number that represents the sound blocking capacity of a partition such as a wall or ceiling.

The STC is calculated by comparing the actual sound loss measured when 18 test frequencies pass through partition, with fixed values for each STC level. The highest STC curve under which the measured sound loss numbers fit, 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 the sound 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 or directly transmitted noise such as machinery mounted on the far side of the wall.

**Transmission Class (TC)** 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.



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