



MODERNUS

Acoustics Approach

Fixed Glass Walls

HOW DO WE CONTROL NOISE? Acoustics and STC

The term Acoustics refers to both the qualities of a room or building that determine how sound is transmitted in it, as well as the branch of physics concerned with the overall properties of sound. Sound itself is neither good nor bad. For example, the voice of a client on a conference speaker phone can be a welcome sound to the team on the project, but not to the colleague in the adjacent office who is working on a different deadline. When sound is unwanted, we call it noise.

To reduce noise between spaces, and maximize audio comfort, the modern study of acoustics helps us evaluate materials and systems for how well they can block sound with a measurement called STC. STC, or Sound Transmission Class, is the measurement used to show how effective a barrier (wall, partition, panel etc) is at reducing the amount of sound that can travel from one side of the barrier to the other.

The higher the STC number, the more effectively the system is blocking noise.

SINGLE GLAZE	GLASS THICKNESS	LAMINATION TYPE	STC
Laminated Glass	3/8"	0,030 P.V.B	36*
		0,060 P.V.B	37*
	1/2"	0,030 P.V.B 0,060 P.V.B	38* 39*
Monolithic Glass	5/8"	0,060 P.V.B	40* 41*
	3/8"		34*
	1/2"		36*
DOUBLE GLAZE			
Laminated Glass	3/8" + 3/8"	0,030 P.V.B	43*
		0,060 P.V.B	45*
	1/2" + 3/8"	0,030 P.V.B 0,060 P.V.B	47* 49*
Monolithic Glass	1/2" + 1/2"	0,030 P.V.B 0,060 P.V.B	47* 49*
	3/8" + 3/8"		42*
	1/2" + 3/8"		43*
	1/2" + 1/2"		43*

*Actual STC of any installed system varies based on project parameters.