

SOUND RATING

STC Sound Rating Test Results Per Ralph Wirt P.E.
(STC; higher the number, less the sound transmission)

WALL #	MATERIAL & DESCRIPTION	STC
<u>INSULAR</u>		
1	3 1/2" Partition Panel with 1/2 1/2" sheetrock on either side	36
2	3 1/2" Panel with 5/8" sheetrock on either side	37
3	2 - 3 1/2" Panels with 5/8" sheetrock on either side	40
4	2 - 3 1/2" Panels with 5/8" air space between and 5/8" sheetrock on either side	42
5	2 - 3 1/2" Panels with ceiling tile	48
6	3 1/2" Panel with 3 1/2" air space on one side, from metal furring channels and 5/8" sheetrock on either side.	49
7	Insular Party wall Panel: 5 1/2" panel with 5/8" sheetrock on either side, 2" hat channel on either side of panel, infilled with 2" fiberglass insulation, covered with 1/2" sheetrock. Total width = 8 5/8" with load cap. of 1250 plf.	51
8	2 - 1 5/8" Panels (3 1/2" panel split down middle), 2" fiberglass batt. insulation between panels, & 5/8" sheetrock 2 side. Total width equals 6 3/4".	53
9	* Insular Zublin partition wall: 2 - 3 1/2" panels with 2" air space between and 1/2" & 5/8" sheetrock on either side. Total width equals 11 1/4"	57
<u>WOOD</u>		
10	Wood Studs with fiberglass insulation and 5/8" sheetrock on each side	34

*Increased values may be accomplished by the use of any of the following:

1/2" Panels

Fiberglass sound blankets between the walls

The use of lead foil on one or both interior surfaces

Exterior cladding, such as but not limited to, additional drywall or spray stucco

NOTES:

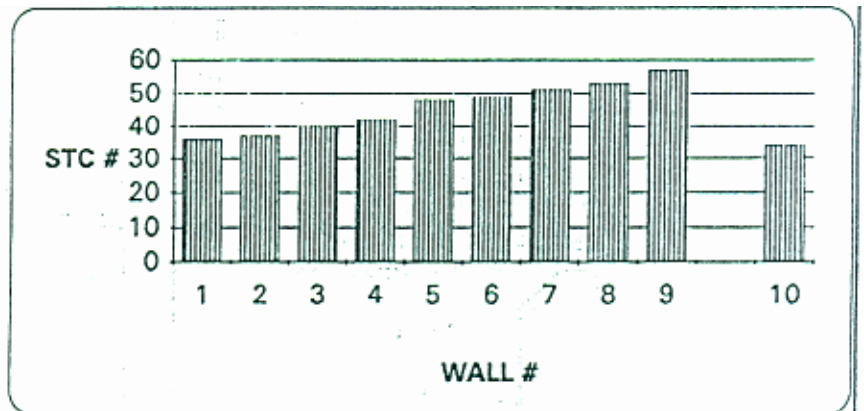
Wood studs are better at low frequency only

Insular is better than wood

for approx.90% of the freq. range.

Insular is excellent in high frequencies.

Most noises in homes are in the high freq. range.



SOUND TESTS ARE AVAILABLE UPON REQUEST.