

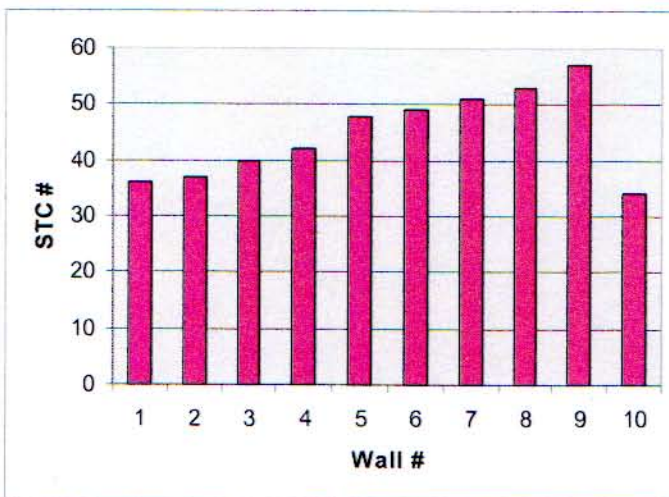
ZAGROS

CONSTRUCTION

TWO CORPORATE DRIVE, SUITE 234
SHELTON, CONNECTICUT USA 06484

ZAGROS PANELS SOUND RATING

Wall #	Material & Description	STC
1	3 1/2" Partition Panel with 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" Panel 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	Party wall panel: 5 1/2" panel with 5/8" sheetrock on either side, 2" hat channel on either side of panel, in filled with 2" fiberglass insulation, covered with 1/2" rock. Total width = 8 5/8" with load capacity of 1250 plf.	51
8	2 - 1 5/8" panels (3 1/2" panel split down the middle), 2" fiberglass batt. insulation between panels, & 5/8" rock 2 side. Total width 6 3/4"	53
9	Zublin partition wall: 2-3 1/2" panels with 2" air space between and 1/2" & 5/8" sheetrock on either side. Total Width 11-1/4"	57
<u>WOOD</u>		
10	Wood stud with fiberglass insulation and 5/8" sheetrock on each side	34



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

- 5-1/2" Panel
- Fiberglass sound blankets between 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

STC Ratings

STC 25 Normal speech is transmitted audibly
 SYC 30 Loud speech may be heard fairly well
 STC 35 Loud speech is blurred but understandable
 STC 42 Loud speech is heard as a murmur
 STC 45 Loud speech is heard only by straining
 STC 48 Some speech is barely audible
 STC 50 Loud speech is totally unheard

Notes: STC; higher the number the less sound is transmitted. Wood studs are better at low frequency only. ThermaSteel is better than wood for approximately 90% of the frequency range. ThermaSteel is excellent for high frequencies. Most noises in the home are in the high frequency range. Sound rating test results by Ralph Wirt, PE.