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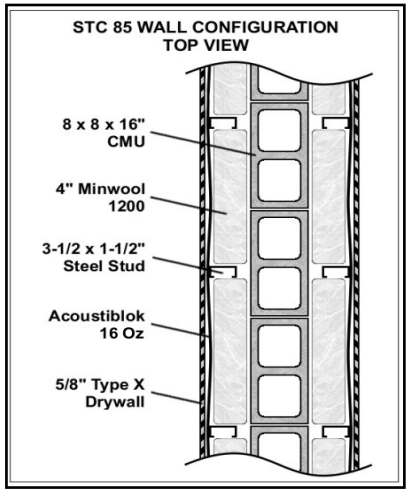
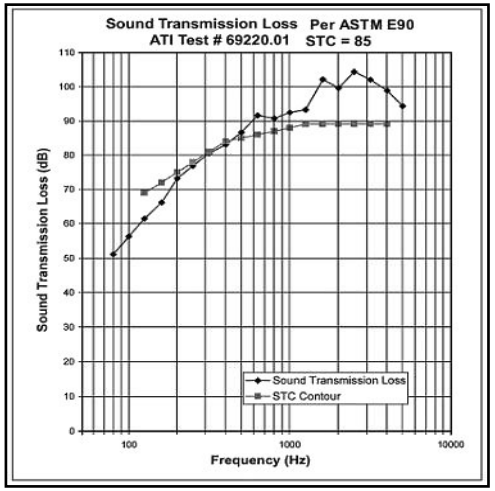
Acoustiblok Sound Isolation Material Independently Tested Wall Assemblies





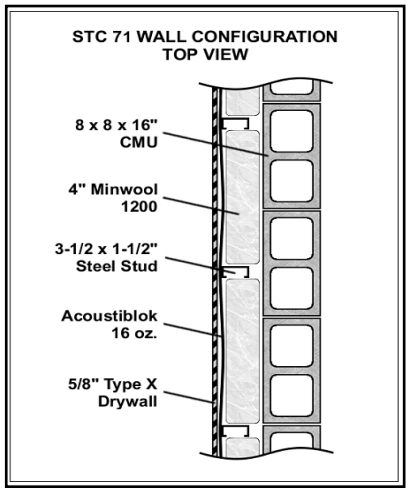
STC 85 Wall Assembly

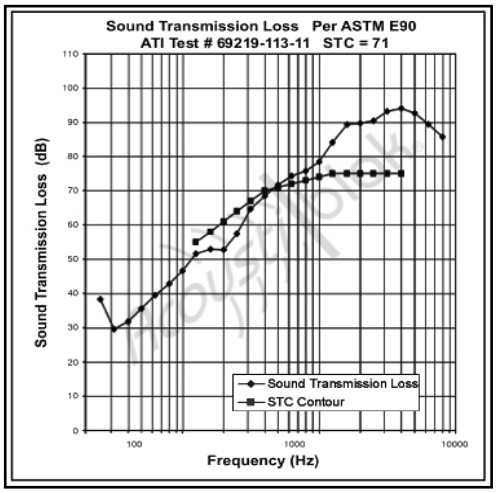
Architectural Testing, Inc. -Test # 69220.01-113-11
Weight: 45.79lb/ft^2 (223.547kg/m$^{2)}$ Thickness: 17.5" (44.45cm)

Assembly Construction: Standard 8" (20.32cm) hollow block, 25 ga. steel studs 24" (61cm) o.c. spaced 1/2" (1.27cm) from block, with 4" (10.16cm) Thermafiber S.A.F.B. insulation, 16 oz. (453.59g) Acoustiblok, 5/8" (1.59cm) Type X gypsum board, on both sides of the block wall.

Independently Tested Sound Transmission Loss Reference								
Frequency	25hz	80hz	125hz	250hz	500hz	1000hz	2500hz	5000hz
T.L.	35 dB	49 dB	60 dB	76 dB	88 dB	92 dB	97 dB	93 dB

R_w and STC ratings vary marginally in the equation R_w = .98STC + 1.1; however, they remain generally identical





STC 71 Wall Assembly

Architectural Testing, Inc. -Test # 69219.01-113-11
Weight: 40.89lb/ft^2 (199.625kg/m^2) Thickness: 12.75" (32.385cm)

Assembly Construction: Standard 8" (20.32cm) hollow block, 25 ga. steel studs 24" (61cm) o.c. spaced 1/2" (1.27cm) from block, with 4" (10.16cm) Thermafiber S.A.F.B. insulation, 16 oz. (453.59g) Acoustiblok, 5/8" (1.59cm) Type X gypsum board, only one side of the block wall.

Independently Tested Sound Transmission Loss Reference								
Frequency	25hz	80hz	125hz	250hz	500hz	1000hz	2500hz	5000hz
T.L.	38 dB	43 dB	52 dB	57 dB	72 dB	78 dB	90 dB	93 dB

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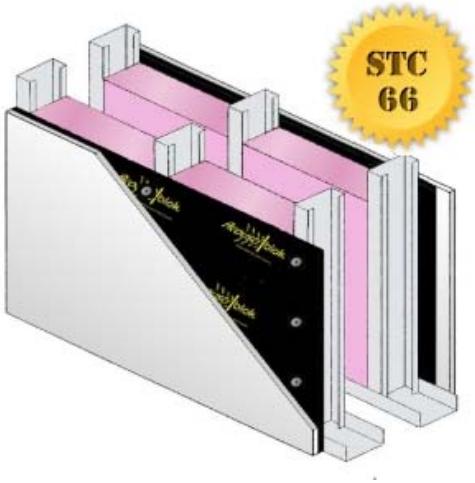
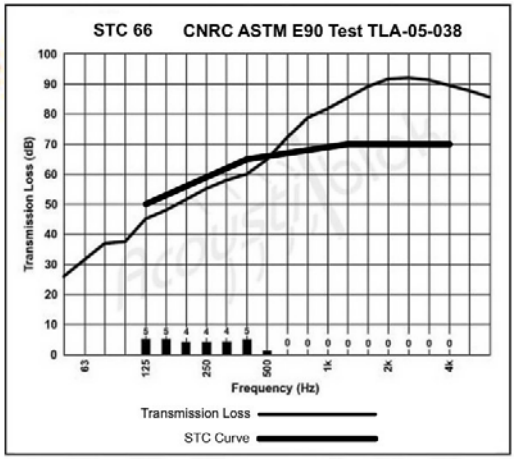




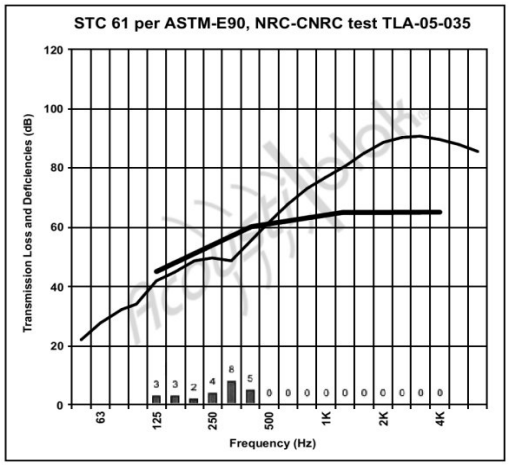
STC 66 Wall Assembly

NRC-IRC -Test # TLA-05-038
Weight: 7.69lb/ft^2 (37.55kg/m2) Thickness: 11in (27.94cm)

Assembly Construction: 25 ga. steel studs 24” (61cm) o.c., 2 1/2” (6.35cm) air space between walls, 6" (15.24) R-21.5 glass fiber batt, 16 oz. (453.59g) Acoustiblok, 5/8” (1.59cm) Type X gypsum board.

Independently Tested Sound Transmission Loss Reference								
Frequency	50hz	80hz	125hz	250hz	500hz	1000hz	2500hz	5000hz
T.L.	26 dB	37dB	45 dB	55 dB	65 dB	82 dB	92 dB	88 dB

R_w and STC ratings vary marginally in the equation R_w = .98STC + 1.1; however, they remain generally identical



STC 61 Wall Assembly

NRC-IRC -Test # TLA-05-035
Weight: 6.824lb/ft^2 (33.32kg/m^2) Thickness: 9.75in (24.765cm)

Assembly Construction: wood studs 24” (61cm) o.c., 1” (2.54cm) air space between walls, glass fiber batt, 16 oz. (453.59g) Acoustiblok, 5/8” (1.59cm) Type X gypsum board.

Independently Tested Sound Transmission Loss Reference								
Frequency	50hz	80hz	125hz	250hz	500hz	1000hz	2500hz	5000hz
T.L.	22 dB	32 dB	42 dB	50 dB	62 dB	77 dB	90 dB	88 dB

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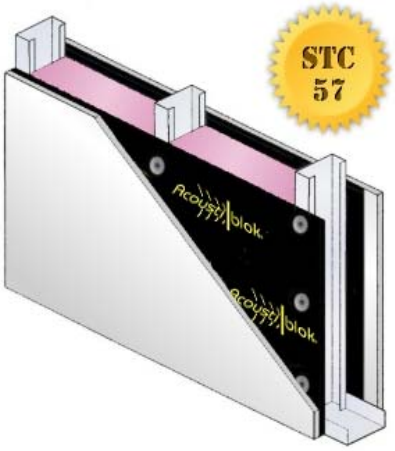

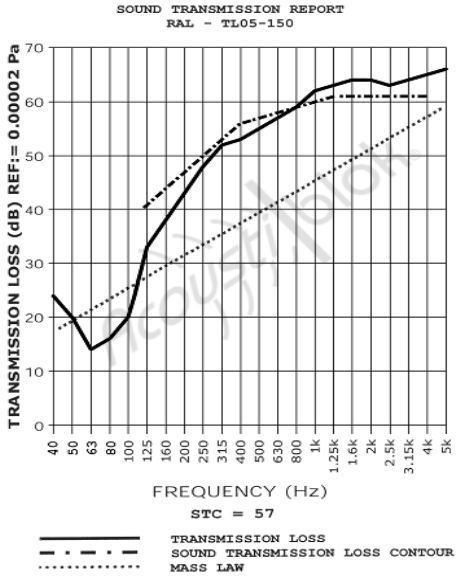

STC 57 Wall Assembly

Riverbank Acoustical Laboratory -Test # TL-05-150
Weight: 7.5lb/ft^2 (36.6kg/m^2) Thickness: 5.125in (13cm)

Assembly Construction: 20 ga. steel studs 24” (61cm) o.c., 3 1/2" (8.89cm) R-13 glass fiber batt, 2 layers - 16 oz. (453.59g) Acoustiblok, 5/8” (1.59cm) Type X gypsum board.
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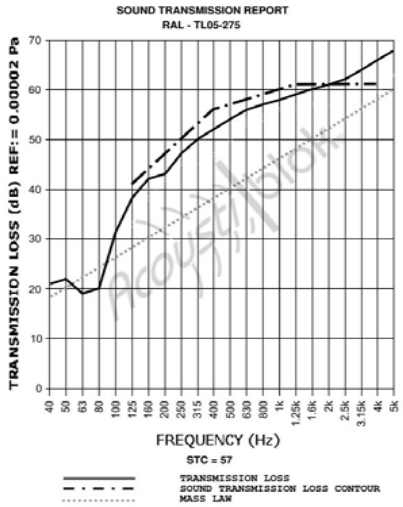
Independently Tested Sound Transmission Loss Reference								
Frequency	40hz	80hz	125hz	250hz	500hz	1000hz	2500hz	5000hz
T.L.	24 dB	16 dB	33 dB	48 dB	55 dB	62 dB	63 dB	66 dB

R_w and STC ratings vary marginally in the equation R_w = .98STC + 1.1; however, they remain generally identical



STC 57 Wall Assembly

Riverbank Acoustical Laboratory -Test # TL-04-275
Weight: 8.1lb/ft^2 (39.6kg/m^2) Thickness: 6.75in (17.1cm)

Assembly Construction: wood studs 16” (40.64cm) o.c. staggered 8” (20.32cm) o.c., 3 1/2” (8.89cm) glass fiber batt, 16 oz. (453.59g) Acoustiblok, 5/8” (1.59cm) Type X gypsum board.

Independently Tested Sound Transmission Loss Reference								
Frequency	40hz	80hz	125hz	250hz	500hz	1000hz	2500hz	5000hz
T.L.	21 dB	20 dB	38 dB	47 dB	54 dB	58 dB	62 dB	68 dB

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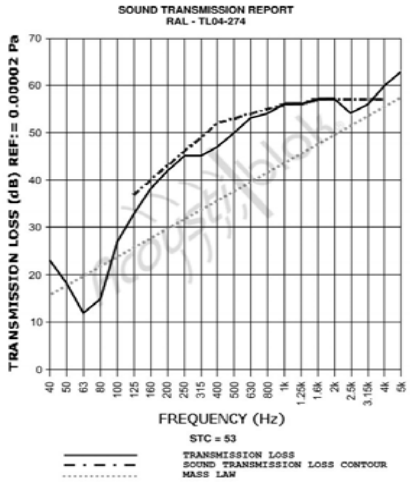


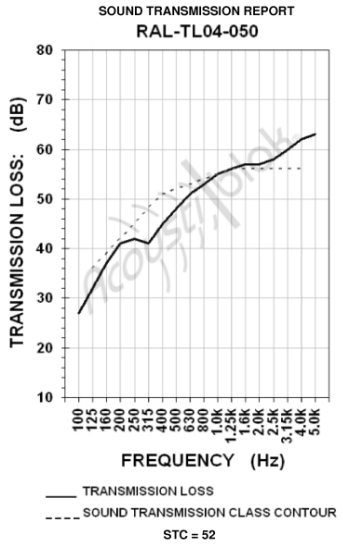
STC 53 Wall Assembly

Riverbank Acoustical Laboratory -Test # TL-04-274
Weight: 6lb/ft^2 (29.2kg/m^2) Thickness: 4.875in (12.4cm)

Assembly Construction: metal studs 24" (61cm) o.c., 3 1/2" (8.89cm) R-13 glass fiber batt, 16 oz. (453.59g) Acoustiblok, 5/8" (1.59cm) Type X gypsum board.

Independently Tested Sound Transmission Loss Reference								
Frequency	40hz	80hz	125hz	250hz	500hz	1000hz	2500hz	5000hz
T.L.	23 dB	15 dB	33 dB	45 dB	50 dB	56 dB	54 dB	63 dB

R_w and STC ratings vary marginally in the equation R_w = .98STC + 1.1; however, they remain generally identical



STC 52 Wall Assembly

Riverbank Acoustical Laboratory -Test # TL-04-050
Weight: 6.8lb/ft^2 (33.3kg/m^2) Thickness: 5in (12.7cm)

Assembly Construction: 2"x4" (5cm,10cm) wood studs 24" (40.64cm) o.c. 3 1/2" (8.89cm) glass fiber batt, 16 oz. (453.59g) Acoustiblok, 5/8" (1.59cm) Type X gypsum board.

Independently Tested Sound Transmission Loss Reference								
Frequency	100hz	160hz	250hz	500hz	800hz	1000hz	2500hz	5000hz
T.L.	27 dB	37 dB	42 dB	48 dB	53 dB	55 dB	58 dB	63 dB