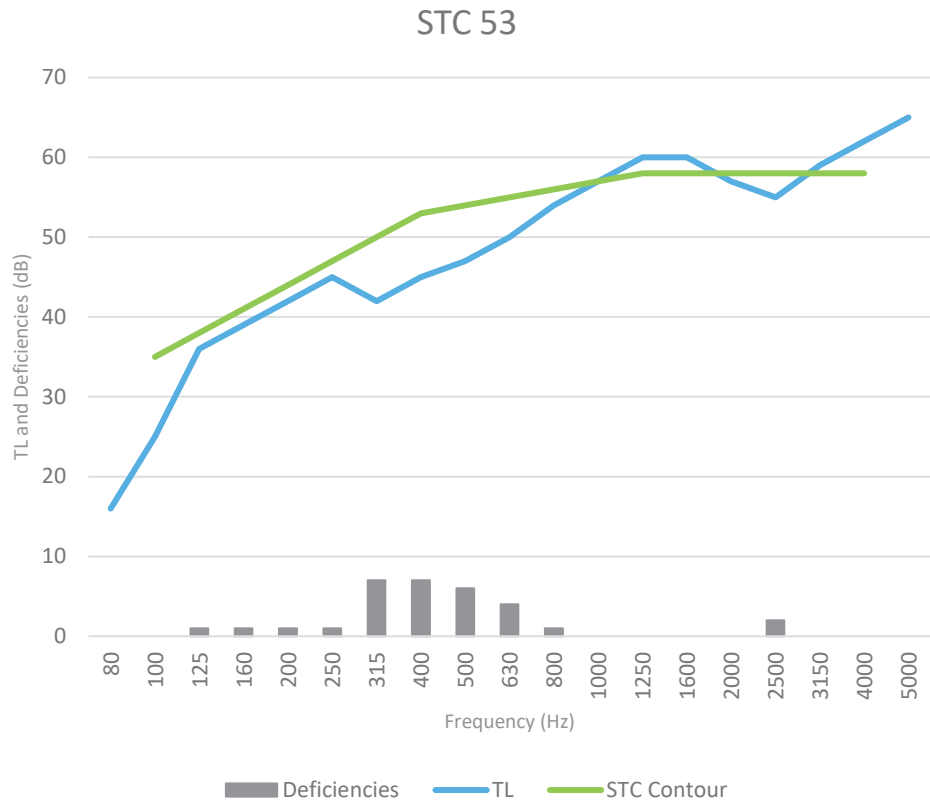


Acoustic Data

Test Site:	National Research Council Canada 1200 Montreal Rd., Ottawa, ON, K1A 0R6	Test Number:	NRC TLA-04-051
Assembly Type:	Wall	Test Date:	07/15/2004
Method:	ASTM E90-09	Report Date:	8/05/2004

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	16	
100	25	
125	36	1
160	39	1
200	42	1
250	45	1
315	42	7
400	45	7
500	47	6
630	50	4
800	54	1
1000	57	
1250	60	
1600	60	
2000	57	
2500	55	2
3150	59	
4000	62	
5000	65	
Total Deficiencies		31



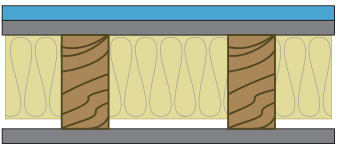








Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock® 530	264.2 (119.8)	2.76 (13.45)
5/8" Flame Curb® Type X gypsum panel	217.0 (98.4)	2.25 (11.00)
2"x4" wood studs spaced 24" oc	80.9 (36.7)	0.84 (4.10)
3-1/2" glass fiber insulation	17.6 (8.0)	0.18 (0.90)
5/8" Flame Curb® Type X gypsum panel	216.3 (98.1)	2.25 (11.00)
Total	796.0 (361.0)	8.28 (40.45)

Test Methods

Test methods follow the published standards listed below. All values derived for single-direction transmission loss measurements.

ASTM E90-09: Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
ASTM E413-16: Classification for Rating Sound Isolation

Design Details	Description	Acoustical	Fire
<p>PGD-02-10-105</p> 	<ul style="list-style-type: none">  2-1/4" Type S or W drywall screws 16" o.c. (for fire screws spaced 8" o.c. along the perimeter and 12" o.c. in the field).  Face layer: 5/8" QuietRock[®] 530 or QuietRock[®] 530 RF type X gypsum panel applied vertically.  1-5/8" Type S or W drywall screws 16" o.c. (for fire 1-7/8" screws spaced 7" o.c.).  Base layer: 5/8" PABCO Flame Curb[®] type C gypsum panel applied vertically.  2 x 4 wood studs 24" o.c.  3-1/2" glass fiber insulation in stud space.  5/8" Type X (FLAME CURB[®], MOLD CURB[®] Plus, ABUSE CURB[®], PABCO[®] Impact Resistant, PABCO[®] Glass Sheathing or PABCO[®] Gypsum Sheathing) gypsum panel applied vertically.  1-5/8" Type S or W drywall screws 16" o.c. (for fire 1-7/8" screws spaced 7" o.c.). 	<p>STC 53 NRCC TLA-04-051</p>	<p>1 Hour UL U309</p>
<p>5-3/8" Thick, 8.3 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered all layers, and on opposite sides. Horizontal joints of vertically applied panels need not be or backed by studs.</p>		