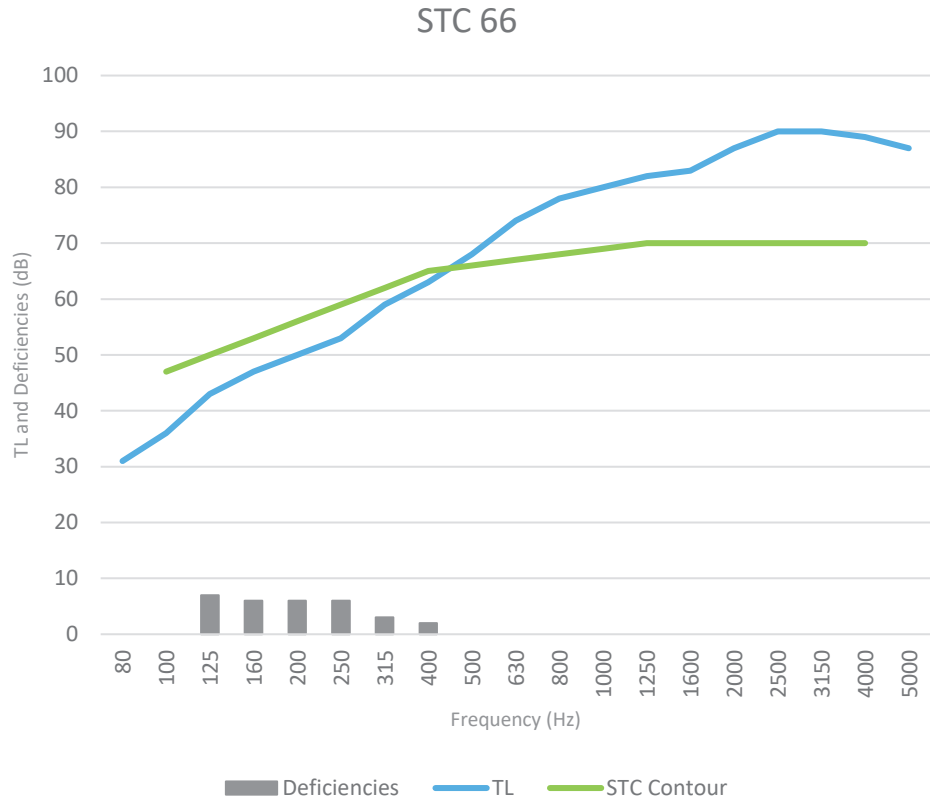


Acoustic Data

Test Site:	National Research Council Canada 1200 Montreal Rd., Ottawa, ON, K1A 0R6	Test Number:	NRC TLA-04-034
Assembly Type:	Wall	Test Date:	8/05/2004
Method:	ASTM E90-09	Report Date:	8/05/2004

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	31	
100	36	
125	43	7
160	47	6
200	50	6
250	53	6
315	59	3
400	63	2
500	68	
630	74	
800	78	
1000	80	
1250	82	
1600	83	
2000	87	
2500	90	
3150	90	
4000	89	
5000	87	
Total Deficiencies		30



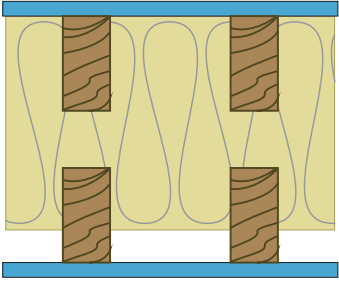








Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock® 530	264.6 (120.0)	2.76 (13.45)
Double row 2"x4" wood studs spaced 24" oc	167.8 (76.1)	1.74 (8.50)
9-1/2" glass fiber insulation	61.1 (27.7)	0.61 (3.00)
5/8" QuietRock® 530	263.5 (119.5)	2.74 (13.40)
Total	757.0 (343.3)	7.85 (38.35)

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-02-10-040</p> 	<ul style="list-style-type: none">  1-7/8" Type S or W drywall screws 16" o.c. (for fire 8" o.c. at edges 12" o.c. in the field).  One layer 5/8" QuietRock® 530 or QuietRock® 530 RF type X gypsum panel applied vertically.  2 x 4 wood studs 24" o.c.  3" air gap (for fire minimum 1" air gap).  9-1/2" glass fiber insulation in stud space.  2 x 4 wood studs 24" o.c.  One layer 5/8" QuietRock® 530 or QuietRock® 530 RF type X gypsum panel applied vertically.  1-7/8" Type S or W drywall screws 16" o.c. (for fire 8" o.c. at edges 12" o.c. in the field). 	<p>STC 66 NRCC TLA-04-033</p>	<p>1 Hour UL U341</p>
<p>11-1/4" Thick, 11.2 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered on opposite sides. Horizontal joints of vertically applied panels need not be or backed by studs.</p>		