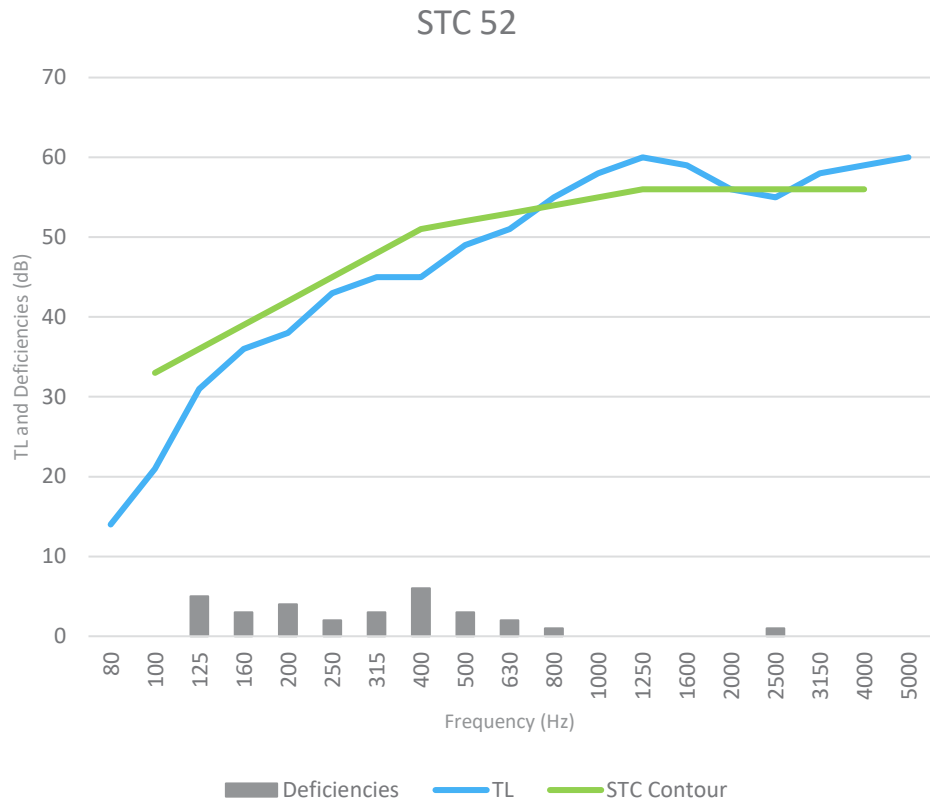


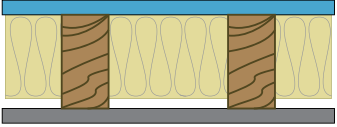






Acoustic Data			
Test Site:	National Research Council Canada 1200 Montreal Rd., Ottawa, ON, K1A 0R6	Test Number:	NRC TLA-04-050
Assembly Type:	Wall	Test Date:	07/15/2004
Method:	ASTM E90-09	Report Date:	8/05/2004

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	14	
100	21	
125	31	5
160	36	3
200	38	4
250	43	2
315	45	3
400	45	6
500	49	3
630	51	2
800	55	1
1000	58	
1250	60	
1600	59	
2000	56	
2500	55	1
3150	58	
4000	59	
5000	60	
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)
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	579.4 (262.8)	6.03 (29.45)

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-02-10-110</p> 	<ul style="list-style-type: none">  1-5/8" Type S drywall screws 16" o.c. (for fire screws spaced 12" o.c. along the perimeter and 8" 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.  3-1/2" glass fiber insulation in stud space.  One layer 5/8" Flame Curb® type C 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 52 NRCC TLA-04-050</p>	<p>1 Hour UL U309</p>
<p>4-3/4" Thick, 6 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>		