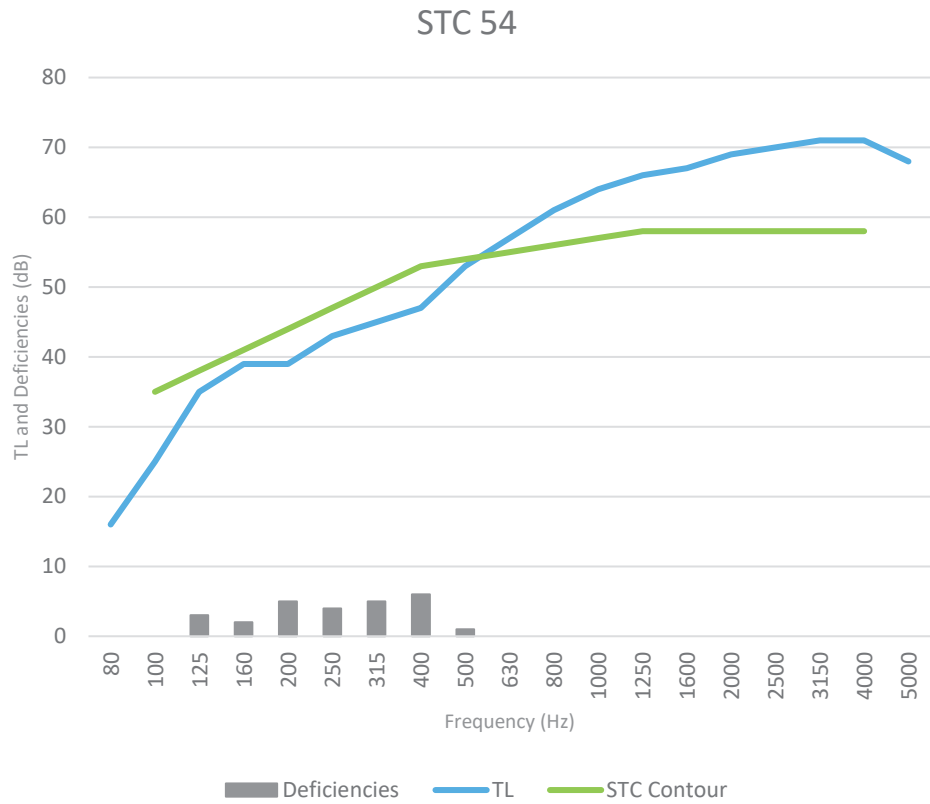


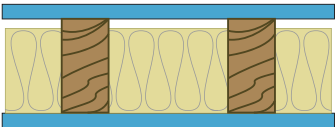






Acoustic Data			
Test Site:	National Research Council Canada 1200 Montreal Rd., Ottawa, ON, K1A 0R6	Test Number:	NRC TLA-04-036
Assembly Type:	Wall	Test Date:	8/05/2004
Method:	ASTM E90-09	Report Date:	8/05/2004

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	16	
100	25	
125	35	3
160	39	2
200	39	5
250	43	4
315	45	5
400	47	6
500	53	1
630	57	
800	61	
1000	64	
1250	66	
1600	67	
2000	69	
2500	70	
3150	71	
4000	71	
5000	68	
Total Deficiencies		26



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" QuietRock® 530	263.5 (119.5)	2.75 (13.43)
Total	626.6 (284.2)	6.53 (31.88)

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-02-10-100</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" QuietRock[®] 530 or QuietRock[®] 530 RF type X gypsum panel applied vertically.  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). 	<p>STC 54 NRCC TLA-04-036</p>	<p>1 Hour UL U309</p>
<p>4-3/4" Thick, 6.6 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		