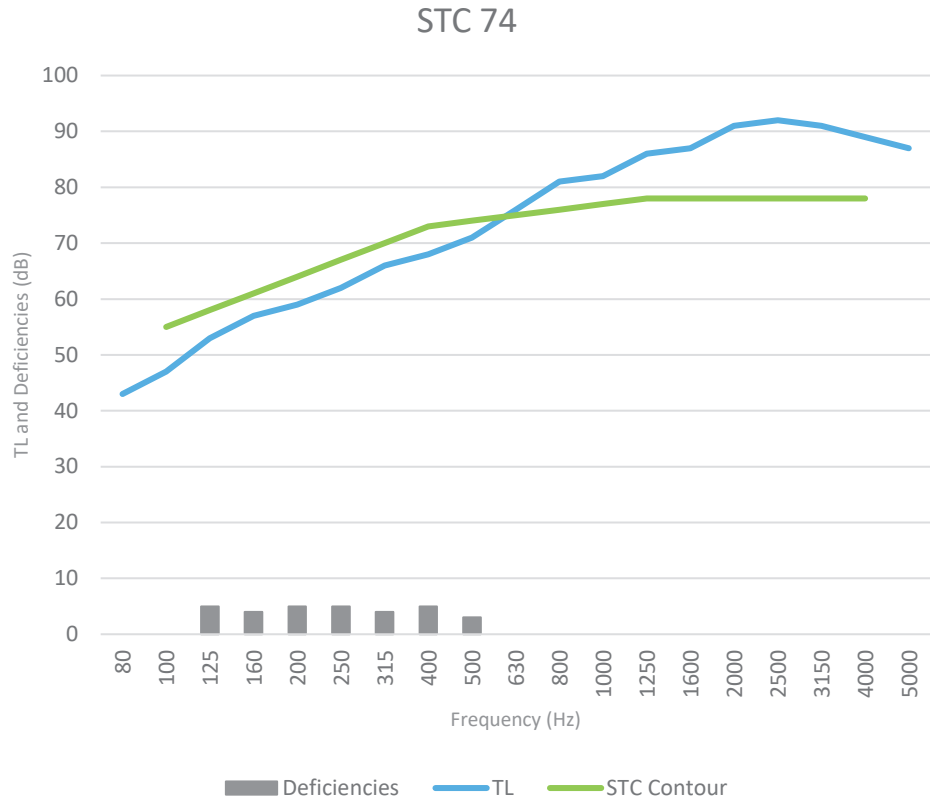


**Acoustic Data**

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	43	
100	47	
125	53	5
160	57	4
200	59	5
250	62	5
315	66	4
400	68	5
500	71	3
630	76	
800	81	
1000	82	
1250	86	
1600	87	
2000	91	
2500	92	
3150	91	
4000	89	
5000	87	
<b>Total Deficiencies</b>		<b>31</b>



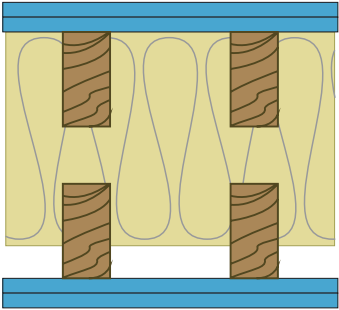












**Assembly Mass**

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
5/8" QuietRock® 530	263.9 (119.7)	2.75 (13.42)
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)	0.63 (3.10)
5/8" QuietRock® 530	263.5 (119.5)	2.74 (13.40)
5/8" QuietRock® 530	264.2 (119.8)	2.75 (13.43)
<b>Total</b>	<b>1,285.1 (582.8)</b>	<b>13.37 (65.30)</b>

**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><b>PGD-02-10-030</b></p> 	<ul style="list-style-type: none"> <li> 2" Type S or W drywall screws 16" o.c. (for fire 8" o.c. at edges 12" o.c. in the field).</li> <li> Face layer: 5/8" QuietRock® 530 or QuietRock® 530 RF type X gypsum panel applied vertically.</li> <li> 1-7/8" Type S drywall screws 24" o.c.</li> <li> Base layer: 5/8" QuietRock® 530 or QuietRock® 530 RF type X gypsum panel applied vertically.</li> <li> 2 x 4 wood studs 24" o.c.</li> <li> 3" air gap (for fire minimum 1" air gap).</li> <li> 9-1/2" glass fiber insulation in stud space.</li> <li> 2 x 4 wood studs 24" o.c.</li> <li> Base layer: 5/8" QuietRock® 530 or QuietRock® 530 RF type X gypsum panel applied vertically.</li> <li> 1-7/8" Type S drywall screws 24" o.c. (for fire 8" o.c. at edges and 12" in the field).</li> <li> Face layer: 5/8" QuietRock® 530 or QuietRock® 530 RF type X gypsum panel applied vertically.</li> <li> 2" Type S or W drywall screws 16" o.c. (for fire 8" o.c. at edges 12" o.c. in the field).</li> </ul>	<p style="text-align: center;"><b>STC 74</b> NRCC TLA-04-034</p>	<p style="text-align: center;"><b>1 Hour</b> UL U341</p>
<p>12-1/2" Thick, 22.4 lb/ft<sup>2</sup>, 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>		