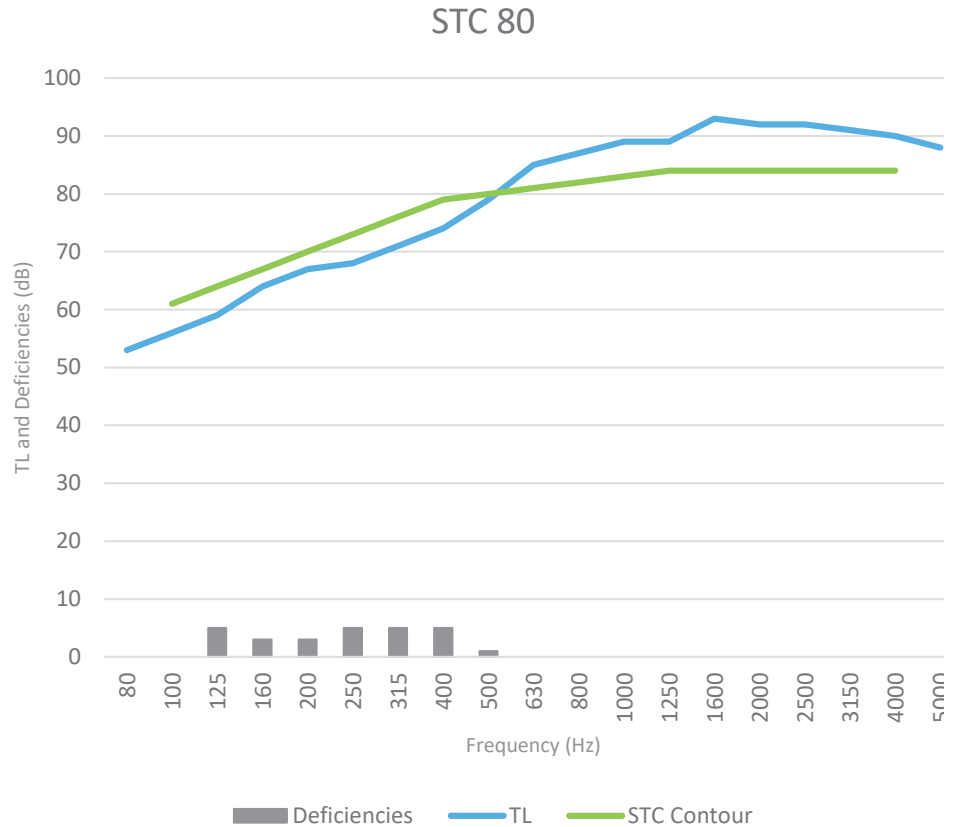


Acoustic Data

Test Site:	National Research Council Canada 1200 Montreal Rd., Ottawa, ON, K1A 0R6	Test Number:	NRC TLA-05-043
Assembly Type:	Wall	Test Date:	9/6/2005
Method:	ASTM E90-09	Report Date:	9/6/2005

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	53	
100	56	
125	59	5
160	64	3
200	67	3
250	68	5
315	71	5
400	74	5
500	79	1
630	85	
800	87	
1000	89	
1250	89	
1600	93	
2000	92	
2500	92	
3150	91	
4000	90	
5000	88	
Total Deficiencies		27



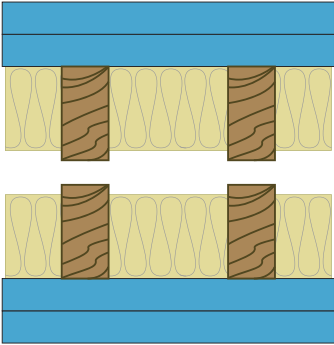













Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
1-3/8" QuietRock® 545 gypsum panel	608.7 (276.1)	6.30 (30.95)
1-3/8" QuietRock® 545 gypsum panel	611.3 (277.3)	6.40 (31.09)
Double row 2"x4" wood studs spaced 24" oc	182.8 (82.9)	1.90 (9.30)
2 Layers 3-1/2" glass fiber insulation	37.5 (17.0)	0.40 (1.91)
1-3/8" QuietRock® 545 gypsum panel	609.4 (276.4)	6.30 (30.99)
1-3/8" QuietRock® 545 gypsum panel	609.6 (276.5)	6.30 (31.00)
Total	2,659.3 (1,206.2)	27.60 (135.24)

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 data-bbox="212 359 394 386">PGD-02-00-010</p> 	<ul style="list-style-type: none"> <li data-bbox="532 373 992 422"> 3-1/2" Type S or W drywall screws 16" o.c. <li data-bbox="532 495 1081 543"> Face layer: 1-3/8" QuietRock® 545 applied vertically <li data-bbox="532 590 976 638"> 2-1/4" Type S or W drywall screws 16" o.c. <li data-bbox="532 711 1081 760"> Base layer: 1-3/8" QuietRock® 545 applied vertically. <li data-bbox="532 806 834 854"> 2 x 4 wood studs 24" o.c. <li data-bbox="532 907 992 955"> 3-1/2" glass fiber insulation in stud space. <li data-bbox="532 1008 699 1056"> 3" air gap. <li data-bbox="532 1108 992 1157"> 3-1/2" glass fiber insulation in stud space. <li data-bbox="532 1209 834 1257"> 2 x 4 wood studs 24" o.c. <li data-bbox="532 1310 1081 1358"> Base layer: 1-3/8" QuietRock® 545 applied vertically. <li data-bbox="532 1411 976 1459"> 2-1/4" Type S or W drywall screws 16" o.c. <li data-bbox="532 1512 1081 1560"> Face layer: 1-3/8" QuietRock® 545 applied vertically. <li data-bbox="532 1612 976 1661"> 3-1/2" Type S or W drywall screws 16" o.c. 	<p data-bbox="1117 999 1284 1056">STC 80 NRCC TLA-05-043</p>	<p data-bbox="1360 1014 1471 1041">Non-Rated</p>
<p data-bbox="126 1713 483 1740">15-1/2" Thick, 27.7 lb/ft², Load Bearing.</p>	<p data-bbox="521 1713 1170 1740">Stagger joints in all layers, vertical joints staggered on opposite sides.</p>		