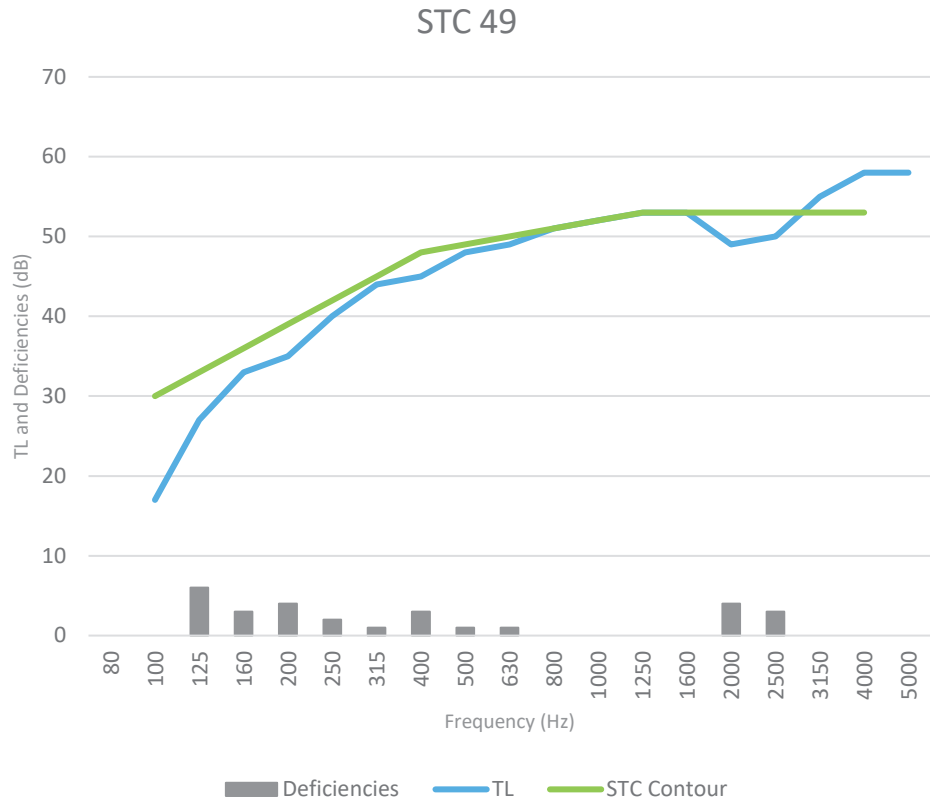


**Acoustic Data**

Test Site:	Riverbank Acoustical Laboratories 1512 S. Batavia Ave., Geneva, IL 60134	Test Number:	RAL TL07-021
Assembly Type:	Wall	Test Date:	1/23/2007
Method:	ASTM E90-09	Report Date:	1/23/2007

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80		
100	17	
125	27	6
160	33	3
200	35	4
250	40	2
315	44	1
400	45	3
500	48	1
630	49	1
800	51	
1000	52	
1250	53	
1600	53	
2000	49	4
2500	50	3
3150	55	
4000	58	
5000	58	
<b>Total Deficiencies</b>		<b>28</b>



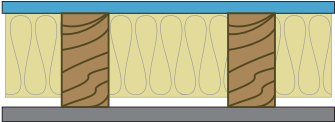






**Assembly Mass**

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
1/2" QuietRock® 510	157.0 (71.2)	2.20 (10.60)
2"x4" wood studs spaced 24" oc	61.0 (28.0)	0.80 (4.20)
3-1/2" glass fiber insulation	18.0 (8.2)	0.20 (1.20)
5/8" Flame Curb® Type X gypsum panel	151.0 (68.5)	2.10 (10.20)
<b>Total</b>	<b>387.0 (175.9)</b>	<b>5.30 (26.20)</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-02-00-050</b></p> 	<ul style="list-style-type: none"> <li> 1-5/8" type S or W drywall screws 16" o.c.</li> <li> One layer 1/2" QuietRock<sup>®</sup> 510 gypsum panel applied vertically.</li> <li> 2 x 4 wood studs 24" o.c.</li> <li> 3-1/2" glass fiber insulation in stud space.</li> <li> 5/8" Type X (FLAME CURB<sup>®</sup>, MOLD CURB<sup>®</sup> Plus, ABUSE CURB<sup>®</sup>, PABCO<sup>®</sup> Impact Resistant, PABCO<sup>®</sup> Glass Sheathing or PABCO<sup>®</sup> Gypsum Sheathing) gypsum panel applied vertically.</li> <li> 1-5/8" Type S or W drywall screws 16" o.c.</li> </ul>	<p><b>STC 49</b> RAL-TL-07-021</p>	<p><b>Non-Rated</b></p>
<p>4-5/8" Thick, 5.3 lb/ft<sup>2</sup>, Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		