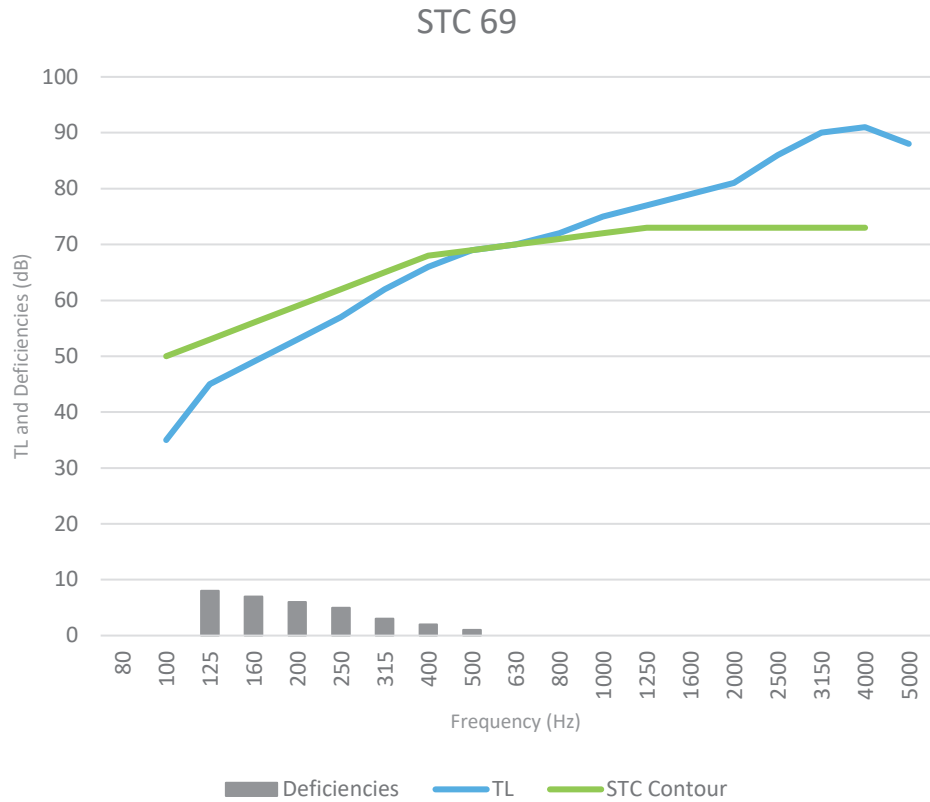


**Acoustic Data**

Test Site:	Riverbank Acoustical Laboratories 1512 S. Batavia Ave., Geneva, IL 60134	Test Number:	RAL TL07-119
Assembly Type:	Wall	Test Date:	5/08/2007
Method:	ASTM E90-09	Report Date:	4/29/2008

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80		
100	35	
125	45	8
160	49	7
200	53	6
250	57	5
315	62	3
400	66	2
500	69	1
630	70	
800	72	
1000	75	
1250	77	
1600	79	
2000	81	
2500	86	
3150	90	
4000	91	
5000	88	
<b>Total Deficiencies</b>		<b>32</b>

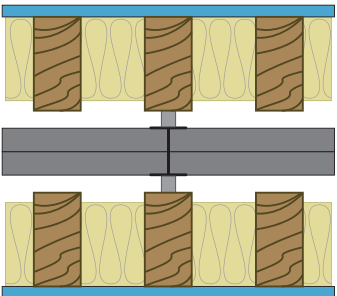















**Assembly Mass**

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
1/2" QuietRock® 510 gypsum panel	279.9 (127)	2.22 (10.87)
2 x 4 wood stud 16" oc	147 (66.65)	1.16 (5.68)
3-1/2" glass fiber insulation	31.8 (14.4)	0.25 (1.22)
2 Layers 1" PABCORE® gypsum shaftliner panel	972 (441)	7.7 (37.69)
2" 25 ga C Track	13 (5.9)	0.1 (0.49)
2" 25 ga H Studs 24" oc	23 (10.4)	0.18 (0.88)
3-1/2" glass fiber insulation	31.8 (14.4)	0.25 (1.22)
2 x 4 wood stud 16" oc	147 (66.65)	1.16 (5.68)
1/2" QuietRock® 510 gypsum panel	279.9 (127)	2.22 (10.87)
<b>Total</b>	<b>1925.4 (873.4)</b>	<b>15.24 (74.6)</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-08-20-010</b></p> 	<ul style="list-style-type: none"> <li> 1-5/8" Type S or W drywall screws spaced 16" o.c.</li> <li> One layer 1/2" QuietRock<sup>®</sup> 510 gypsum panel applied vertically.</li> <li> 2 x 4 studs 16" o.c.</li> <li> 3-1/2" glass fiber insulation in stud space.</li> <li> 3/4" minimum air space.</li> <li> Two layers 1" x 24" PABCORE<sup>®</sup> Gypsum Shaftliner, PABCORE<sup>®</sup> Mold Curb<sup>®</sup> Plus Shaftliner, or PABCO<sup>®</sup> Glass Shaftliner Type X.</li> <li> Inserted between 2" 25ga C Track floor and ceiling runners with 2" steel H studs between adjacent pairs of gypsum panels.</li> <li> L-shaped aluminum break-away clips are attached to each side of every H-stud (two per stud) with two (2) 1/2" Type S pan head screw through the short leg of the clip. Secure the long leg of the clip to wood framing with one 1-1/4" Type W screw.</li> <li> 3/4" minimum air space.</li> <li> 2 x 4 studs 16" o.c.</li> <li> 3-1/2" glass fiber insulation in stud space.</li> <li> One layer 1/2" QuietRock<sup>®</sup> 510 gypsum panel applied vertically.</li> <li> 1-5/8" Type S or W drywall screws spaced 16" o.c.</li> </ul>	<p><b>STC 69</b> RAL-TL-07-119</p>	<p><b>2 Hours</b> UL U347, GA ASW-0985</p>
<p>11-1/2" Thick, 12 lb/ft<sup>2</sup>, Non-Load Bearing.</p>			
<p>QuietRock 510 - applied vertically. Panels attached to wood studs with 1-5/8 in. long steel drywall screws spaced 16" o.c. Vertical joints located over studs.</p>			