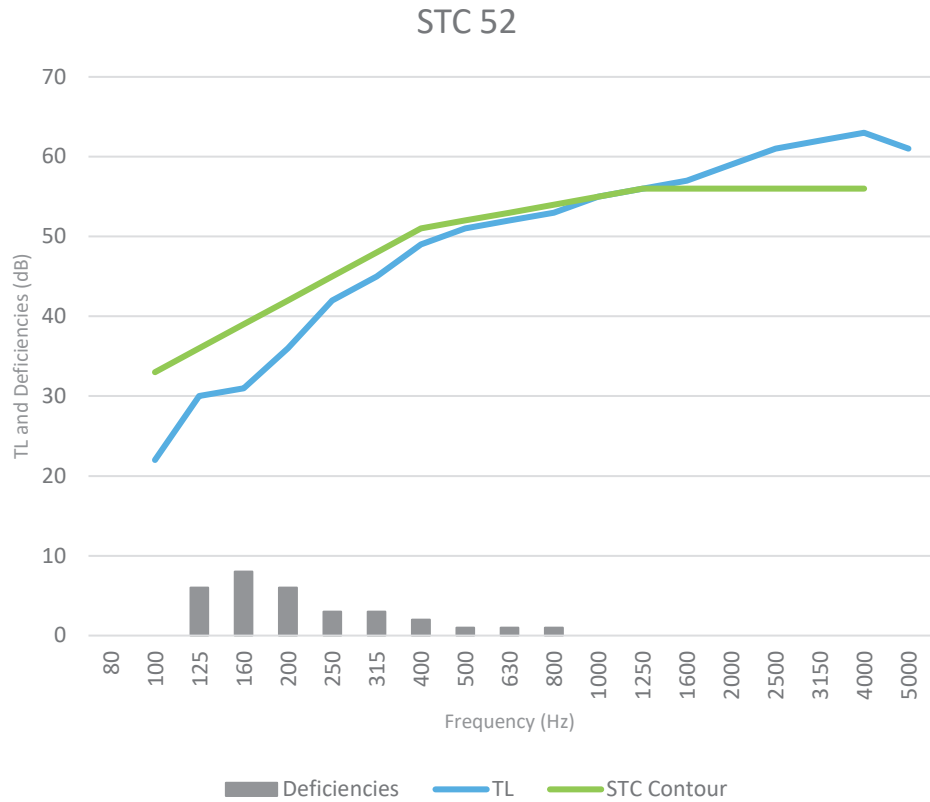


Acoustic Data

Test Site:	Riverbank Acoustical Laboratories 1512 S. Batavia Ave., Geneva, IL 60134	Test Number:	RAL TL07-022
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	22	
125	30	6
160	31	8
200	36	6
250	42	3
315	45	3
400	49	2
500	51	1
630	52	1
800	53	1
1000	55	
1250	56	
1600	57	
2000	59	
2500	61	
3150	62	
4000	63	
5000	61	
Total Deficiencies		31



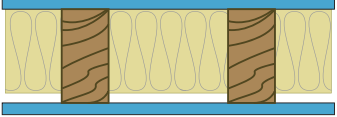






Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
1/2" QuietRock® 510	156.0 (70.5)	2.20 (10.50)
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)
1/2" QuietRock® 510	156.0 (70.5)	2.20 (10.50)
Total	391.0 (177.2)	5.40 (26.40)

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-02-00-040</p> 	<ul style="list-style-type: none">  1-5/8" type S or W drywall screws 16" o.c.  One layer 1/2" QuietRock[®] 510 gypsum panel applied vertically.  2 x 4 wood studs 24" o.c.  3-1/2" glass fiber insulation in stud space.  One layer 1/2" QuietRock[®] 510 gypsum panel applied vertically.  1-5/8" type S or W drywall screws 16" o.c. 	<p>STC 52 RAL-TL-07-022</p>	<p>Non-Rated</p>
<p>4-1/2" Thick, 5.4 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		