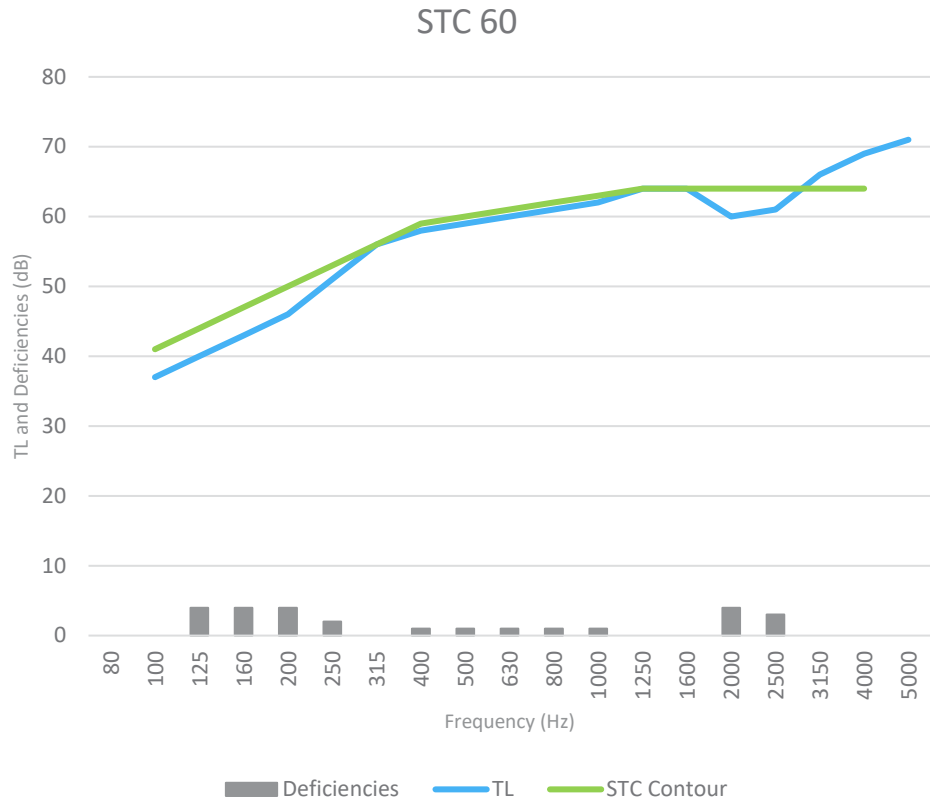


Acoustic Data

Test Site:	Riverbank Acoustical Laboratories 1512 S. Batavia Ave., Geneva, IL 60134	Test Number:	RAL TL10-121
Assembly Type:	Wall	Test Date:	4/15/2010
Method:	ASTM E90-09	Report Date:	4/15/2010

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80		
100	37	
125	40	4
160	43	4
200	46	4
250	51	2
315	56	
400	58	1
500	59	1
630	60	1
800	61	1
1000	62	1
1250	64	
1600	64	
2000	60	4
2500	61	3
3150	66	
4000	69	
5000	71	
Total Deficiencies		26



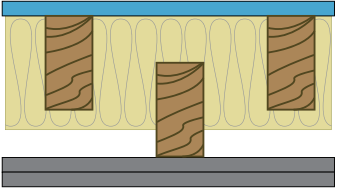








Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock ES®	340.5 (154.5)	2.70 (13.20)
2"x4" wood studs spaced 16" oc staggered 8" oc on 2"x6" plates	262.8 (119.1)	2.10 (10.20)
6-1/4" glass fiber insulation	32.5 (14.7)	0.30 (1.30)
5/8" Flame Curb® Type X gypsum panel	284.5 (129.0)	2.30 (11.00)
5/8" Flame Curb® Type X gypsum panel	284.5 (129.0)	2.30 (11.00)
Total	1,204.8 (546.3)	9.70 (46.70)

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-02-00-070</p> 	<ul style="list-style-type: none">  1-5/8" Type W drywall screws 12" o.c. (for fire 1-7/8" drywall screws 7" o.c.).  One layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.  2 x 4 wood studs 16" o.c. staggered 8" o.c. on 2x6 plates.  6-1/4" glass fiber insulation in stud space.  Base layer: 5/8" Type X (FLAME CURB®, MOLD CURB® Plus, ABUSE CURB®, PABCO® Impact Resistant, PABCO® Glass Sheathing or PABCO® Gypsum Sheathing) gypsum panel applied vertically.  1-5/8" Type W bugle head drywall screws 12" o.c. (for fire 1-7/8" drywall screws 6" o.c.).  Face layer: 5/8" Type X (FLAME CURB®, MOLD CURB® Plus, ABUSE CURB®, PABCO® Impact Resistant, PABCO® Glass Sheathing or PABCO® Gypsum Sheathing) gypsum panel applied vertically.  2" Type W bugle head drywall screws 12" o.c. (for fire 2-3/8" drywall screws 8" o.c.). 	<p>STC 60 RAL TL-10-121</p>	<p>1 Hour UL U340, W304</p>
<p>7-3/8" Thick, 9.6 lb/ft², 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>		