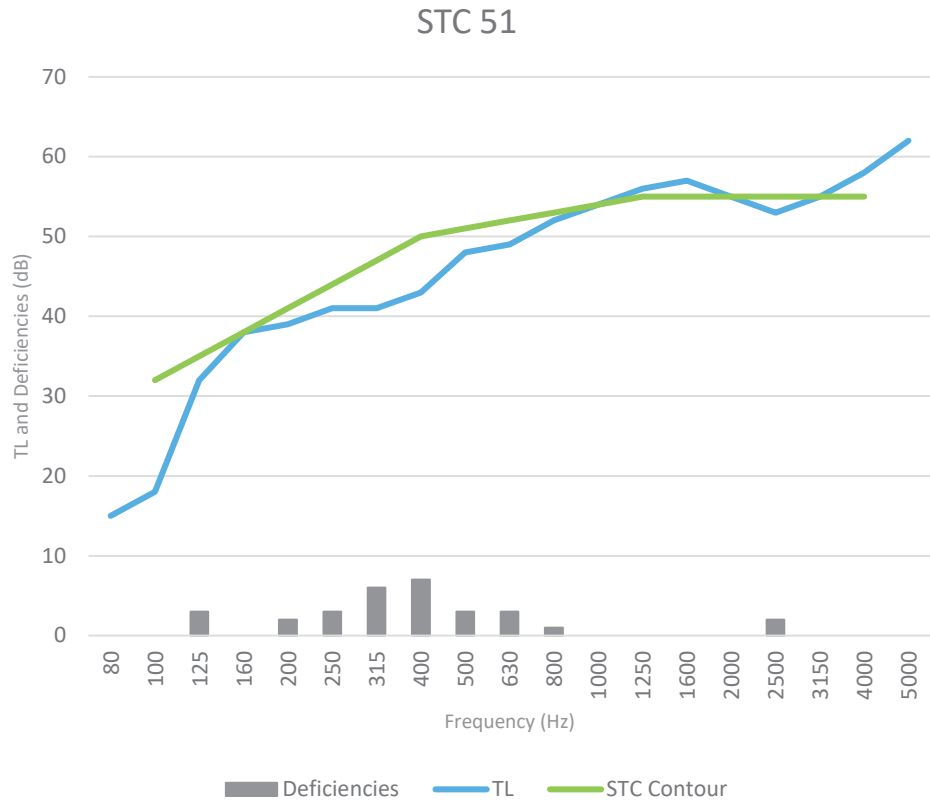


Acoustic Data

Test Site:	Orfield Laboratories, Inc. 2709 East 25th St., Minneapolis, MN 55406	Test Number:	OL 11-0319
Assembly Type:	Wall	Test Date:	3/04/2011
Method:	ASTM E90-09	Report Date:	3/31/2011

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	15	
100	18	
125	32	3
160	38	
200	39	2
250	41	3
315	41	6
400	43	7
500	48	3
630	49	3
800	52	1
1000	54	
1250	56	
1600	57	
2000	55	
2500	53	2
3150	55	
4000	58	
5000	62	
Total Deficiencies		30



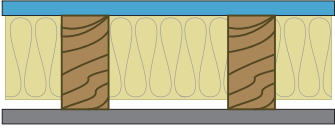






Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" Flame Curb® Type X gypsum panel	133.1 (60.4)	2.06 (10.08)
2"x4" wood studs spaced 24" oc	56.0 (25.4)	0.87 (4.24)
3-1/2" glass fiber insulation	14.0 (6.4)	0.22 (1.60)
5/8" QuietRock ES®	175.7 (79.7)	2.72 (13.30)
Total	378.8 (171.9)	5.87 (29.22)

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-02-10-120</p> 	<ul style="list-style-type: none">  1-5/8" Type S or 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 24" o.c.  3.5" glass fiber insulation in stud space.  One 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 S or W drywall screws 12" o.c. (for fire 1-7/8" drywall screws 7" o.c.). 	<p>STC 51 OL-TL-11-0319</p>	<p>1 Hour UL U305</p>
<p>4-3/4" Thick, 5.9 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		