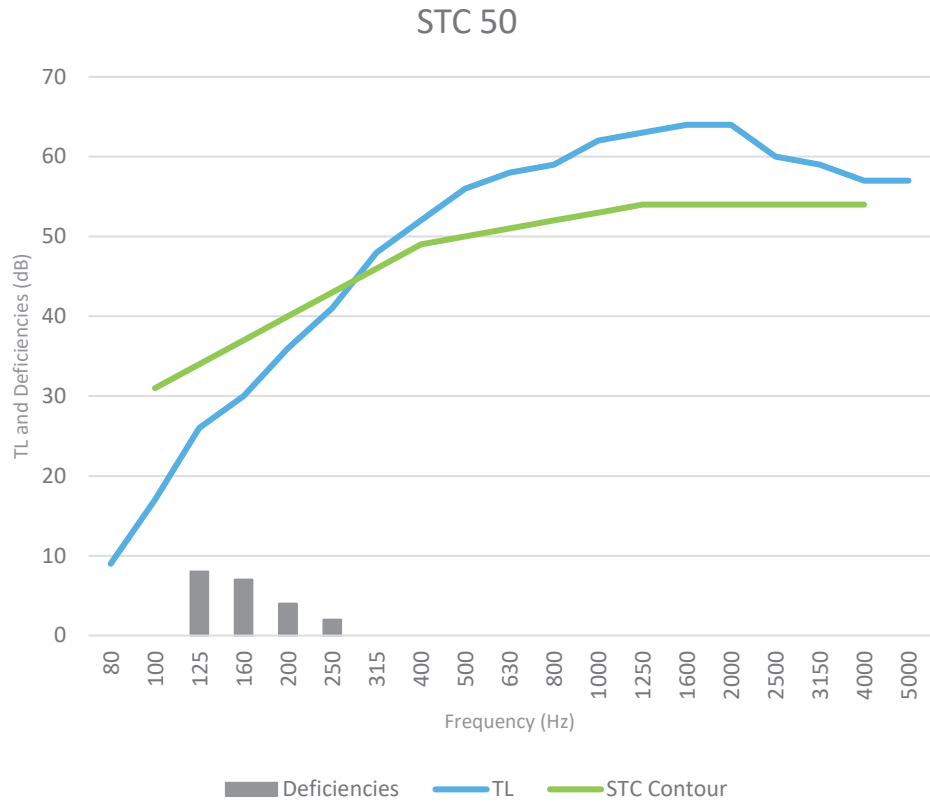


Acoustic Data

Test Site:	Orfield Laboratories, Inc. 2709 East 25th St., Minneapolis, MN 55406	Test Number:	OL 12-0515
Assembly Type:	Wall	Test Date:	5/22/2012
Method:	ASTM E90-09	Report Date:	7/27/2012

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	9	
100	17	
125	26	8
160	30	7
200	36	4
250	41	2
315	48	
400	52	
500	56	
630	58	
800	59	
1000	62	
1250	63	
1600	64	
2000	64	
2500	60	
3150	59	
4000	57	
5000	57	
Total Deficiencies		21



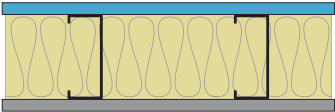






Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
1/2" QuietRock® 510	139.0 (63.0)	2.16 (10.52)
3-5/8" 15 mil (25 ga.) steel studs spaced 24" oc	20.4 (9.3)	0.32 (1.54)
3-1/2" glass fiber insulation	14.0 (6.4)	0.22 (1.06)
1/2" PABCO® Regular gypsum panel	100.0 (45.4)	1.55 (7.57)
Total	273.4 (124.0)	4.24 (20.70)

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 data-bbox="212 348 394 373">PGD-01-00-010</p> 	<ul style="list-style-type: none"> <li data-bbox="529 365 935 415">  1-1/4" Type S drywall screws 12" o.c. <li data-bbox="529 485 1027 535">  One Layer 1/2" QuietRock® 510 gypsum panel applied vertically. <li data-bbox="529 575 1003 625">  3-5/8" 15 mil (25 ga. EQ) steel studs, 24" o.c. <li data-bbox="529 686 987 737">  3-1/2" glass fiber insulation in stud space. <li data-bbox="529 793 1081 861">  One Layer 1/2" PABCO Flame Curb® type XXX or PABCO Flame Curb® Super C gypsum panel applied vertically. <li data-bbox="529 896 935 947">  1-1/4" Type S drywall screws 12" o.c. 	<p data-bbox="1146 632 1256 688">STC 50 OL-12-0515</p>	<p data-bbox="1360 646 1471 672">Non-Rated</p>
<p data-bbox="118 974 501 999">4-5/8" Thick, 4.3 lb/ft², Non-Load Bearing.</p>	<p data-bbox="521 974 927 999">Vertical joints staggered on opposite sides.</p>		