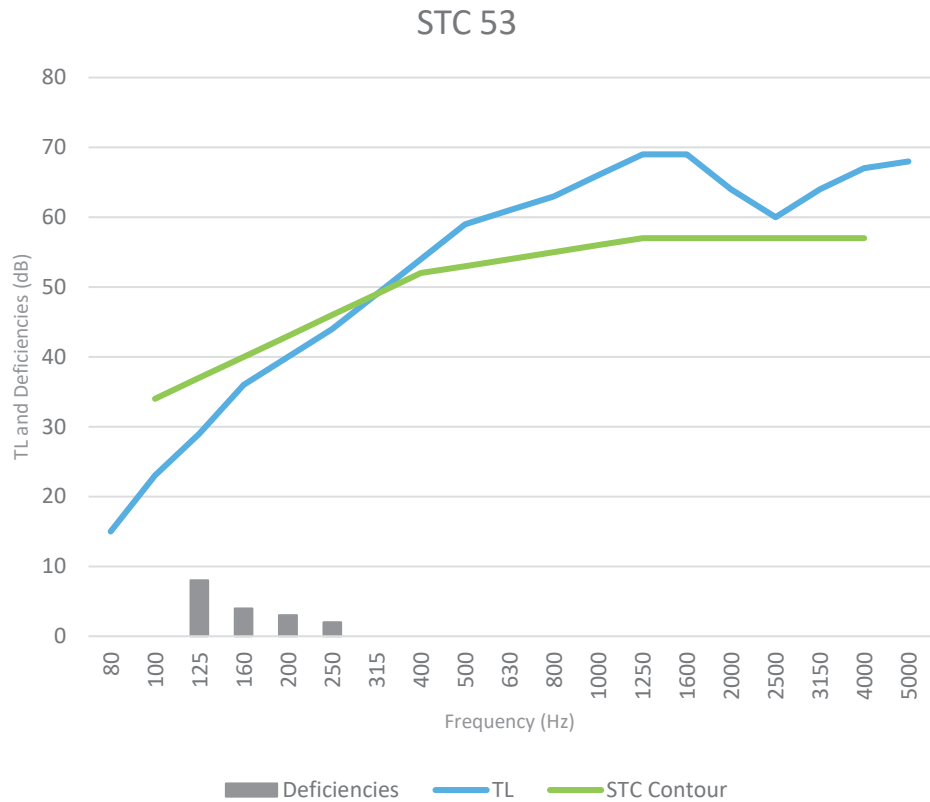


Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 17-0453
Assembly Type:	Wall	Test Date:	4/20/2017
Method:	ASTM E90-09	Report Date:	6/1/2017

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	15	
100	23	
125	29	8
160	36	4
200	40	3
250	44	2
315	49	
400	54	
500	59	
630	61	
800	63	
1000	66	
1250	69	
1600	69	
2000	64	
2500	60	
3150	64	
4000	67	
5000	68	
Total Deficiencies		17



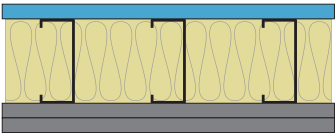






Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock® ES Type X gypsum panel	265.6 (120.5)	2.77 (13.51)
3-5/8" 15 mil (25 ga.) steel studs spaced 16" oc	27.4 (12.4)	0.29 (1.39)
3-1/2" glass fiber insulation	14.2 (6.4)	0.15 (0.72)
5/8" Flame Curb® Type X gypsum panel	201.2 (91.3)	2.10 (10.23)
5/8" Flame Curb® Type X gypsum panel	202.6 (91.9)	2.11 (10.30)
Total	711.00 (322.50)	7.41 (36.16)

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-01-10-131</p> 	<ul style="list-style-type: none">  1" Type S screws (for fire minimum 1-1/4" Type S screws) spaced 8" o.c. at edges and 12" o.c. in the field.  One Layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.  3-5/8" 15 mil (25 ga. EQ) steel studs, 16" o.c.  3-1/2" glass fiber insulation in stud space. Base layer: 5/8" type X (FLAME CURB®, WATER CURB®, MOLD CURB® Plus, ABUSE CURB®, PABCO® High Impact, PABCO® Glass Sheathing or PABCO® Gypsum Sheathing) gypsum panel applied vertically.  1" Type S screws (for fire minimum 1-1/4" Type S screws) spaced 16" o.c. Face layer: 5/8" type X (FLAME CURB®, WATER CURB®, MOLD CURB® Plus, ABUSE CURB®, PABCO® High Impact, PABCO® Glass Sheathing or PABCO® Gypsum Sheathing) gypsum panel applied vertically.  1-5/8" Type S screws (for fire minimum 1-7/8" Type S screws) spaced 8" o.c. at edges and 12" o.c. in the field. 	<p>STC 53 NOAL 17-0453</p>	<p>1 Hour UL V464</p>
<p>5-1/2" Thick, 7.4 lb/ft², Non-Load Bearing.</p>	<p>Vertical joints staggered 16" on opposite sides.</p>		