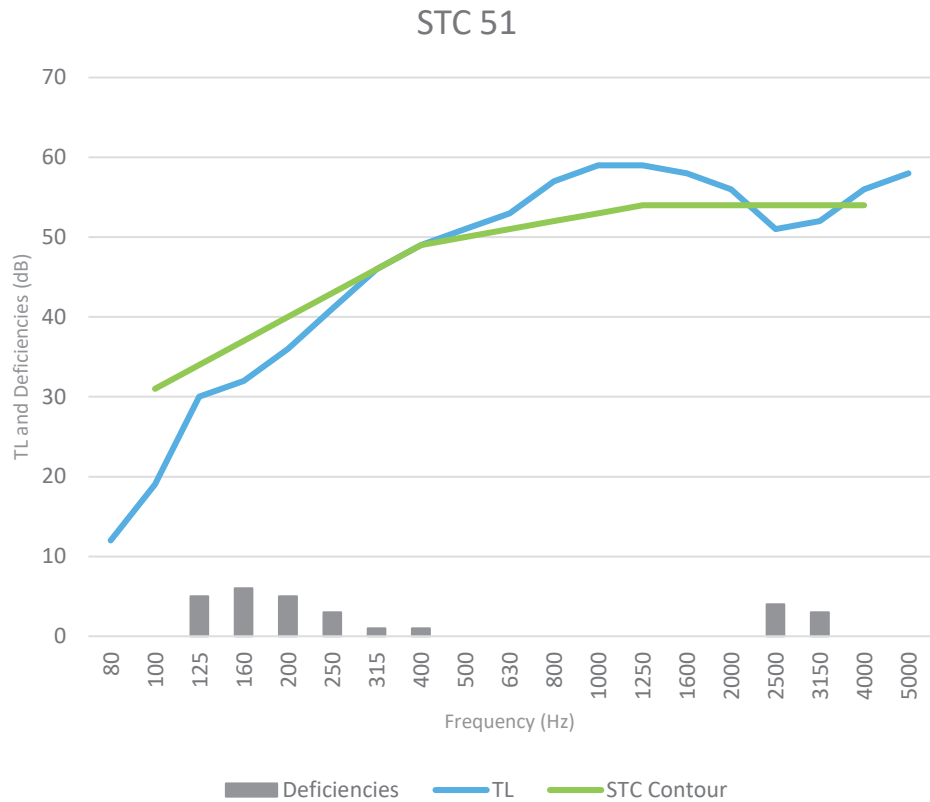


Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0510
Assembly Type:	Wall	Test Date:	5/14/2018
Method:	ASTM E90-09	Report Date:	6/9/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	12	
100	19	
125	30	5
160	32	6
200	36	5
250	41	3
315	46	1
400	49	1
500	51	
630	53	
800	57	
1000	59	
1250	59	
1600	58	
2000	56	
2500	51	4
3150	52	3
4000	56	
5000	58	
Total Deficiencies		28



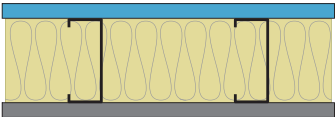






Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock® ES Type X gypsum panel	248.8 (112.9)	2.59 (12.65)
3-5/8" 33 mil (20 ga.) steel studs spaced 24" oc	64.6 (29.3)	0.67 (3.29)
3-1/2" glass fiber insulation	21.6 (9.8)	0.23 (1.10)
5/8" Flame Curb® Type X gypsum panel	199.3 (90.4)	2.08 (10.14)
Total	534.30 (242.35)	5.57 (27.17)

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-01-10-201</p> 	<ul style="list-style-type: none">  1" Type S drywall screws spaced 8" at edges and 12" in the field.  One Layer 5/8" QuietRock[®] ES or QuietRock[®] ES MR type X gypsum panel applied vertically.  3-5/8" 33 mil (20 ga.) steel studs, 24" o.c.  3-1/2" glass fiber insulation in stud space.  One 5/8" type X (FLAME CURB[®], MOLD CURB[®] Plus, ABUSE CURB[®], PABCO[®] High Impact, PABCO[®] Glass Sheathing or PABCO[®] Gypsum Sheathing) gypsum panel applied vertically.  1" Type S drywall screws spaced 8" at edges and 12" in the field. 	<p>STC 51 NOAL 18-0510</p>	<p>1 Hour UL U425</p>
<p>4-7/8" Thick, 5.6 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		