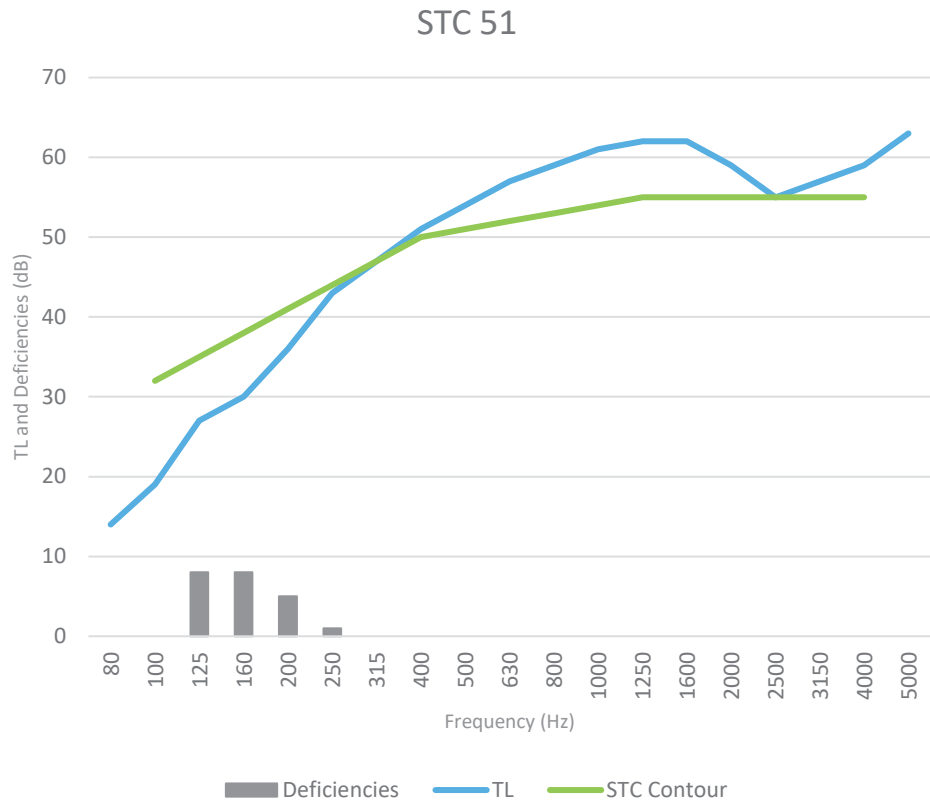


Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0747
Assembly Type:	Wall	Test Date:	7/19/2018
Method:	ASTM E90-09	Report Date:	8/31/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	14	
100	19	
125	27	8
160	30	8
200	36	5
250	43	1
315	47	
400	51	
500	54	
630	57	
800	59	
1000	61	
1250	62	
1600	62	
2000	59	
2500	55	
3150	57	
4000	59	
5000	63	
Total Deficiencies		22



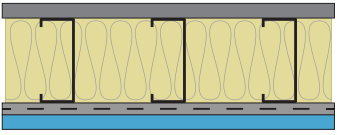








Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock® ES Type X gypsum panel	255.6 (115.9)	2.66 (13.00)
Resilient channels spaced 24" OC	13.4 (6.1)	0.14 (0.68)
3-5/8" 43 mil (18 ga.) steel studs spaced 16" OC	113.8 (51.6)	1.19 (5.79)
3-1/2" glass fiber insulation	22.0 (10.0)	0.23 (1.12)
5/8" Flame Curb® Type X gypsum panel	203.8 (92.4)	2.12 (10.36)
Total	608.60 (276.06)	6.34 (30.95)

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-01-10-215</p> 	<ul style="list-style-type: none">  1-1/4" Type S drywall screws (for fire 1" Type S drywall screws) 8" o.c. at edges and 12" o.c. in the field.  One layer 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.  3-5/8" 43 mil (18 ga.) steel studs, 16" o.c.  3-1/2" glass fiber insulation in stud space.  Resilient channel applied at right-angle, 24" o.c.  1/2" Type S screws attaching resilient channel to stud at each intersection.  One Layer 5/8" QuietRock[®] ES or QuietRock[®] ES MR type X gypsum panel applied vertically.  1" #6 Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field. 	<p>STC 51 NOAL 18-0747</p>	<p>1 Hour UL U425</p>
<p>5-3/8" Thick, 6.4 lb/ft², Non-Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		