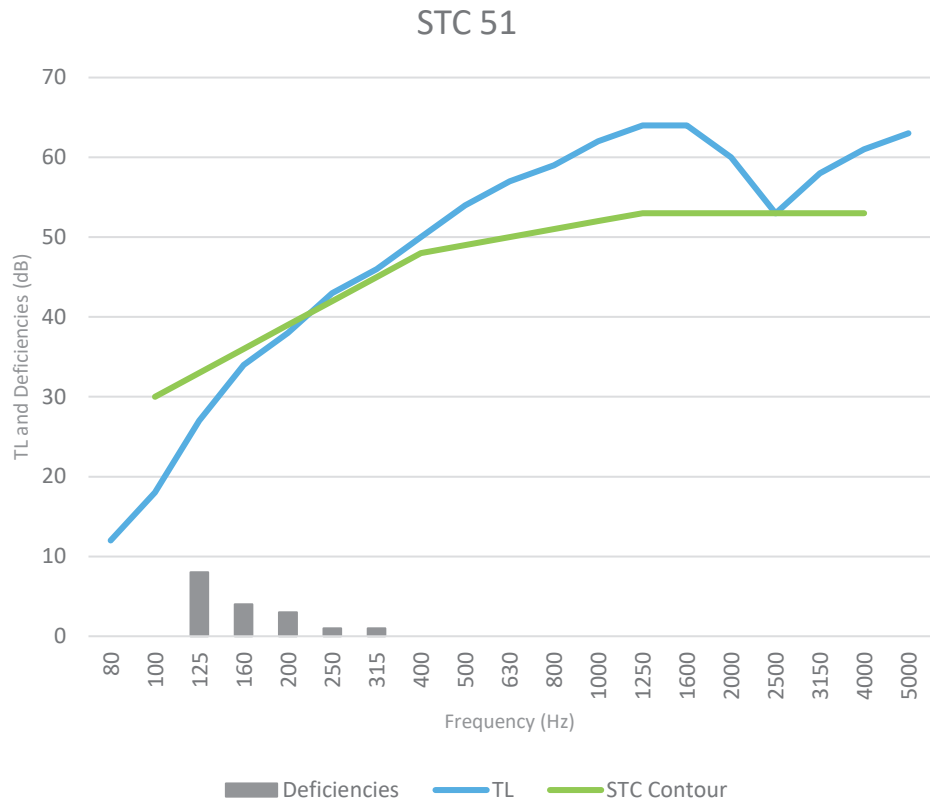


**Acoustic Data**

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 17-0538
Assembly Type:	Wall	Test Date:	5/19/2017
Method:	ASTM E90-09	Report Date:	7/5/2017

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	12	
100	18	
125	27	8
160	34	4
200	38	3
250	43	1
315	46	1
400	50	
500	54	
630	57	
800	59	
1000	62	
1250	64	
1600	64	
2000	60	
2500	53	
3150	58	
4000	61	
5000	63	
<b>Total Deficiencies</b>		<b>17</b>



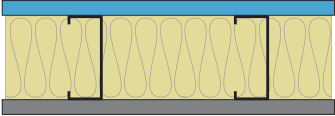






**Assembly Mass**

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
5/8" QuietRock® ES Type X gypsum panel	266.2 (120.7)	2.77 (13.54)
3-5/8" 19 mil (20 ga.) steel studs spaced 24" oc	36.8 (16.7)	0.38 (1.87)
3-1/2" glass fiber insulation	23.8 (10.8)	0.25 (1.21)
5/8" Flame Curb® Type X gypsum panel	203.0 (92.1)	2.11 (10.32)
<b>Total</b>	<b>529.76 (240.30)</b>	<b>5.52 (26.94)</b>

**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><b>PGD-01-10-085</b></p> 	<ul style="list-style-type: none"> <li> 1" Type S screws (for fire design V464 minimum 1-1/4" Type S screws) spaced 8" o.c. at edges and 12" o.c. in the field.</li> <li> One Layer 5/8" QuietRock<sup>®</sup> ES or QuietRock<sup>®</sup> ES MR type X gypsum panel applied vertically.</li> <li> 3-5/8" 19 mil (20 ga. EQ.) steel studs, 24" o.c.</li> <li> 3-1/2" glass fiber insulation in stud space.</li> <li> One layer 5/8" type X (FLAME CURB<sup>®</sup>, WATER CURB<sup>®</sup>, MOLD CURB<sup>®</sup> Plus, ABUSE CURB<sup>®</sup>, PABCO<sup>®</sup> High Impact, PABCO<sup>®</sup> Glass Sheathing or PABCO<sup>®</sup> Gypsum Sheathing) gypsum panel applied vertically.</li> <li> 1" Type S screws (for fire design V464 minimum 1-1/4" Type S screws) spaced 8" o.c. at edges and 12" o.c. in the field.</li> </ul>	<p><b>STC 51</b> NOAL 17-0538</p>	<p><b>1 Hour</b> UL U465, V464</p>
<p>4-7/8" Thick, 5.5 lb/ft<sup>2</sup>, Non-Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		