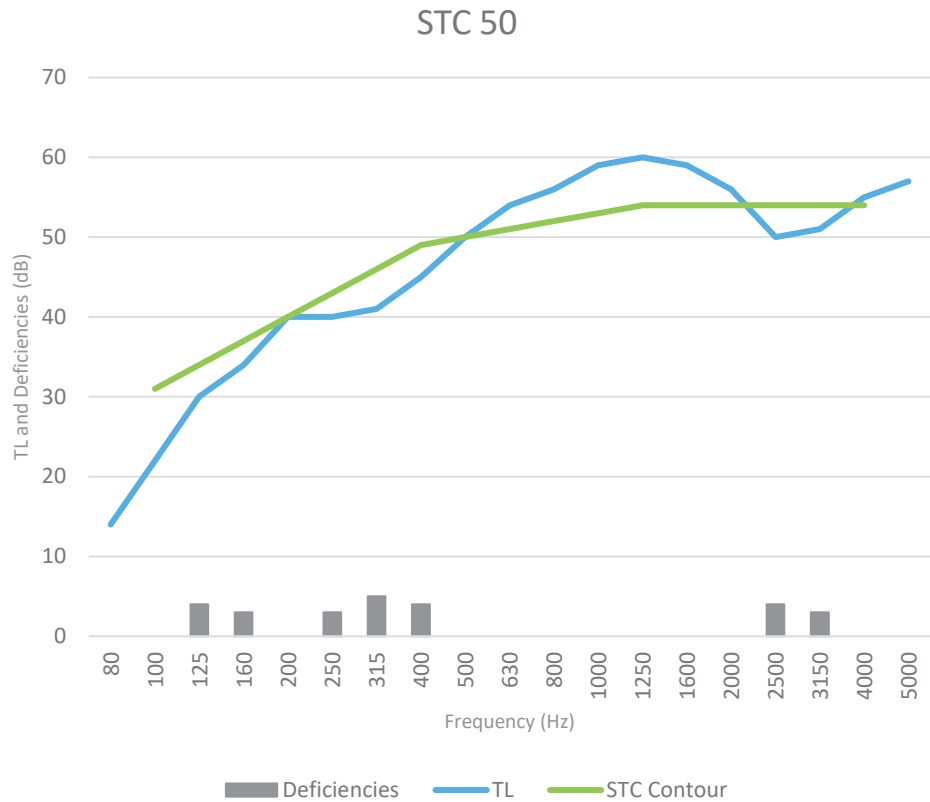


**Acoustic Data**

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-1023
Assembly Type:	Wall	Test Date:	10/4/2018
Method:	ASTM E90-09	Report Date:	12/16/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	14	
100	22	
125	30	4
160	34	3
200	40	
250	40	3
315	41	5
400	45	4
500	50	
630	54	
800	56	
1000	59	
1250	60	
1600	59	
2000	56	
2500	50	4
3150	51	3
4000	55	
5000	57	
<b>Total Deficiencies</b>		<b>26</b>



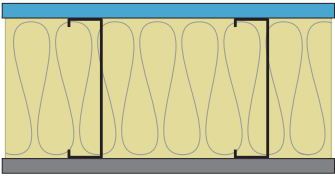






**Assembly Mass**

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
5/8" QuietRock® ES Type X gypsum panel	258.2 (117.1)	2.69 (13.13)
6" 43 mil (18 ga.) steel studs spaced 24" oc	114.2 (51.8)	1.19 (5.81)
3-1/2" glass fiber insulation	21.8 (9.9)	0.23 (1.11)
5/8" Flame Curb® Type X gypsum panel	202.6 (91.9)	2.11 (10.30)
<b>Total</b>	<b>596.80 (270.70)</b>	<b>6.22 (30.35)</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-01-10-165</b></p> 	<ul style="list-style-type: none"> <li> 1" Type S drywall screws 12" o.c. in the field.</li> <li> One Layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.</li> <li> 6" 43 mil (18 ga.) steel studs, 24" o.c.</li> <li> 6-1/2" glass fiber insulation in stud space.</li> <li> 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.</li> <li> 1" Type S drywall screws 12" o.c. in the field.</li> </ul>	<p><b>STC 50</b> NOAL 18-1023</p>	<p><b>1 Hour</b> UL U425</p>
<p>7-1/4" Thick, 6.25 lb/ft<sup>2</sup>, Load Bearing.</p>	<p>Vertical joints staggered 16" on opposite sides.</p>		