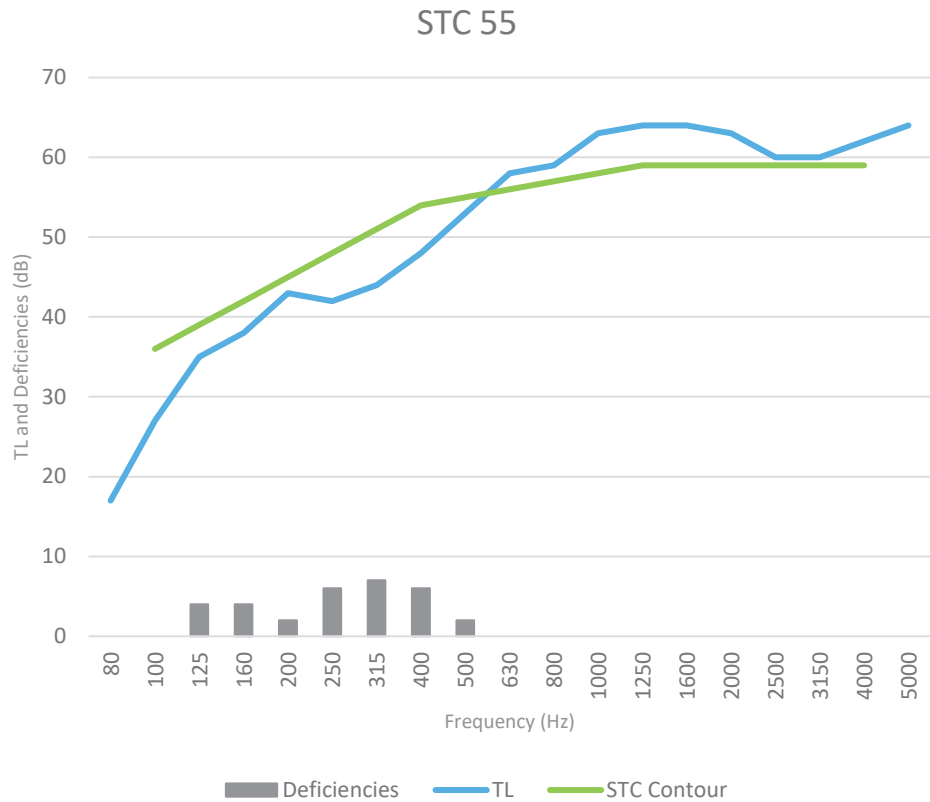


**Acoustic Data**

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-1024
Assembly Type:	Wall	Test Date:	10/5/2018
Method:	ASTM E90-09	Report Date:	11/27/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	17	
100	27	
125	35	4
160	38	4
200	43	2
250	42	6
315	44	7
400	48	6
500	53	2
630	58	
800	59	
1000	63	
1250	64	
1600	64	
2000	63	
2500	60	
3150	60	
4000	62	
5000	64	
<b>Total Deficiencies</b>		<b>31</b>



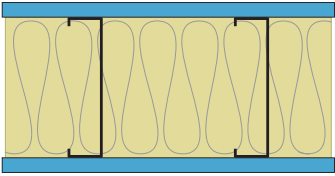






**Assembly Mass**

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)
6-1/2" glass fiber insulation	25.4 (11.5)	0.26 (1.29)
5/8" QuietRock® ES Type X gypsum panel	254.6 (115.5)	2.65 (12.95)
<b>Total</b>	<b>652.40 (295.92)</b>	<b>6.80 (33.18)</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-01-10-155</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<sup>®</sup> ES or QuietRock<sup>®</sup> 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> One Layer 5/8" QuietRock<sup>®</sup> ES or QuietRock<sup>®</sup> ES MR type X gypsum panel applied vertically.</li> <li> 1" Type S drywall screws 12" o.c. in the field.</li> </ul>	<p><b>STC 55</b> NOAL 18-1024</p>	<p><b>1 Hour</b> UL 425</p>
<p>7-1/4" Thick, 6.8 lb/ft<sup>2</sup>, Load Bearing.</p>	<p>Vertical joints staggered 16" on opposite sides.</p>		