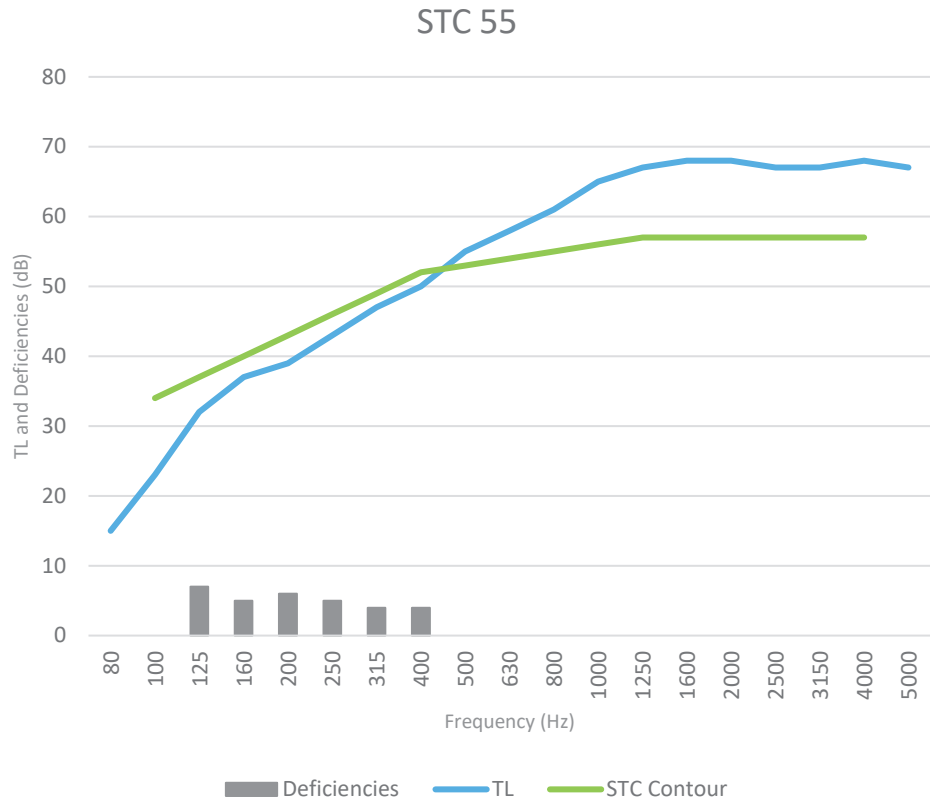


**Acoustic Data**

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0517
Assembly Type:	Wall	Test Date:	5/16/2018
Method:	ASTM E90-09	Report Date:	6/9/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	15	
100	23	
125	32	7
160	37	5
200	39	6
250	43	5
315	47	4
400	50	4
500	55	
630	58	
800	61	
1000	65	
1250	67	
1600	68	
2000	68	
2500	67	
3150	67	
4000	68	
5000	67	
<b>Total Deficiencies</b>		<b>31</b>



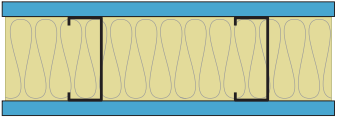






**Assembly Mass**

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
5/8" QuietRock® ES Type X gypsum panel	248.5 (112.7)	2.59 (12.64)
3-5/8" 15 mil (25 ga.) steel studs spaced 24" oc	26.6 (12.1)	0.28 (1.35)
3-1/2" glass fiber insulation	21.6 (9.8)	0.23 (1.10)
5/8" QuietRock® ES Type X gypsum panel	247.0 (112.0)	2.57 (12.56)
<b>Total</b>	<b>543.70 (246.62)</b>	<b>5.66 (27.65)</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-01-10-021</b></p> 	<ul style="list-style-type: none"> <li> 1-1/4" Type S drywall screws 12" o.c. (for fire minimum 1" 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 or horizontally (for fire panels applied vertically).</li> <li> 3-5/8" 15 mil (25 ga. EQ) steel studs, 24" o.c.</li> <li> 3-1/2" 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 horizontally.</li> <li> 1-1/4" Type S drywall screws 12" o.c. (for fire minimum 1" Type S screws spaced 8" o.c. at edges and 12" o.c. in the field).</li> </ul>	<p><b>STC 55</b> NOAL 18-0517</p>	<p><b>1 Hour</b> UL V464 (WFCi 15067), GA WP-0977</p>
<p>4-7/8" Thick, 5.7 lb/ft<sup>2</sup>, Non-Load Bearing.</p>		<p>Vertical joints staggered on opposite sides. Horizontal Joints do not need to be staggered or backed.</p>	