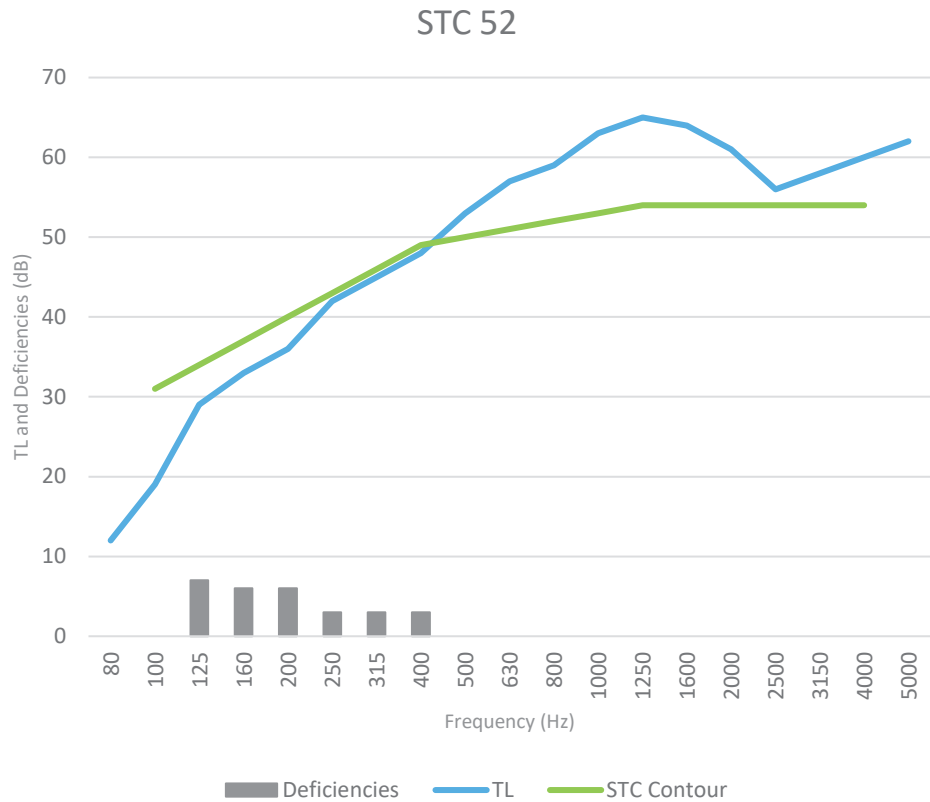


**Acoustic Data**

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0522
Assembly Type:	Wall	Test Date:	5/17/2018
Method:	ASTM E90-09	Report Date:	6/19/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	12	
100	19	
125	29	7
160	33	6
200	36	6
250	42	3
315	45	3
400	48	3
500	53	
630	57	
800	59	
1000	63	
1250	65	
1600	64	
2000	61	
2500	56	
3150	58	
4000	60	
5000	62	
<b>Total Deficiencies</b>		<b>28</b>



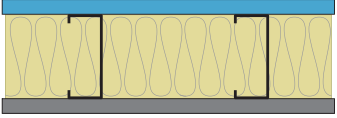






**Assembly Mass**

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" 18 mil (25 ga.) steel studs spaced 24" oc	30.4 (13.8)	0.32 (1.55)
3-1/2" glass fiber insulation	21.6 (9.8)	0.23 (1.10)
5/8" Flame Curb® Type X gypsum panel	199.9 (90.7)	2.08 (10.17)
<b>Total</b>	<b>500.40 (226.98)</b>	<b>5.21 (25.45)</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-01-10-041</b></p> 	<ul style="list-style-type: none"> <li> 1-1/4" Type S drywall 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" 25 18 mil (25 ga.) 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>, PABCO<sup>®</sup> Glass Sheathing) gypsum panel applied vertically.</li> <li> 1-1/4" Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field.</li> </ul>	<p><b>STC 52</b> NOAL 18-0522</p>	<p><b>1 Hour</b> UL U465, V464, GA WP-1027</p>
<p>4-7/8" Thick, 5.2 lb/ft<sup>2</sup>, Non-Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		