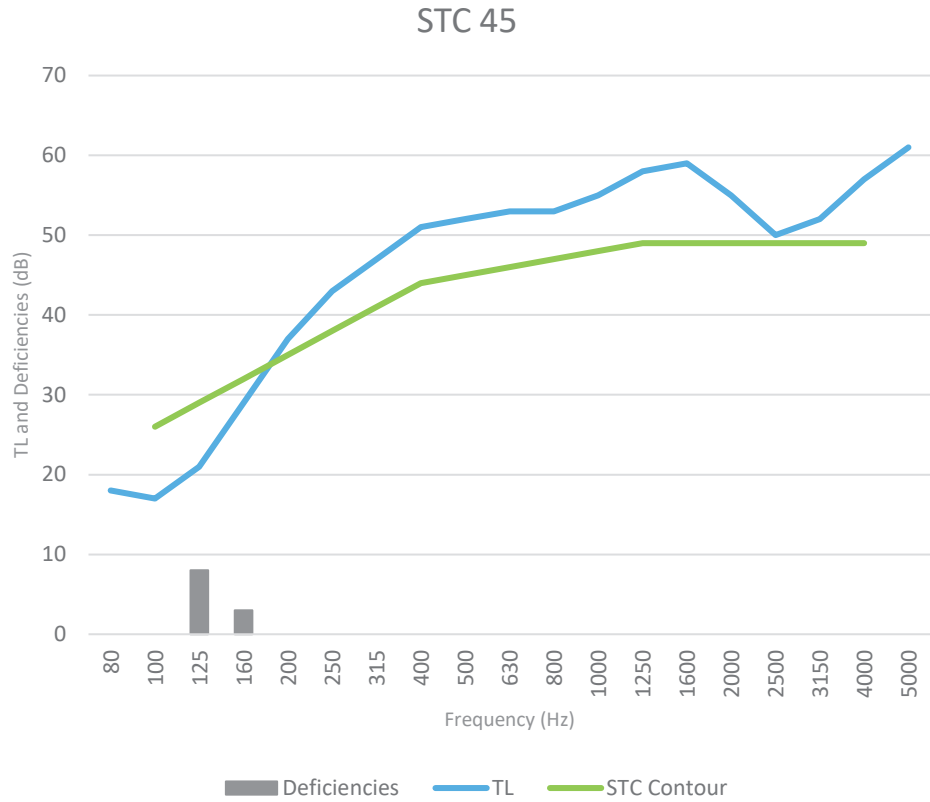


**Acoustic Data**

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0626
Assembly Type:	Wall	Test Date:	6/7/2018
Method:	ASTM E90-09	Report Date:	8/29/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	18	
100	17	
125	21	8
160	29	3
200	37	
250	43	
315	47	
400	51	
500	52	
630	53	
800	53	
1000	55	
1250	58	
1600	59	
2000	55	
2500	50	
3150	52	
4000	57	
5000	61	
<b>Total Deficiencies</b>		<b>11</b>



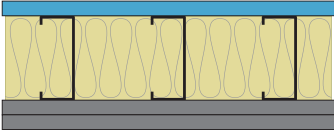








**Assembly Mass**

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m2)
5/8" Flame Curb® Type X gypsum panel	198.6 (90.1)	2.07 (10.10)
5/8" Flame Curb® Type X gypsum panel	197.1 (89.4)	2.05 (10.02)
3-5/8" 54 mil (16 ga.) steel studs spaced 16" oc	138.8 (63.0)	1.45 (7.06)
3-1/2" glass fiber insulation	21.4 (9.7)	0.22 (1.09)
5/8" QuietRock® ES Type X gypsum panel	254.6 (115.5)	2.65 (12.95)
<b>Total</b>	<b>810.50 (367.64)</b>	<b>8.44 (41.22)</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-01-10-271</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® ES or QuietRock® ES MR type X gypsum panel applied vertically.</li> <li> 3-5/8" 54 mil (16 ga.) steel studs, 16" o.c.</li> <li> 3-1/2" glass fiber insulation in stud space.</li> <li> 5/8" Type X (FLAME CURB®, MOLD CURB® Plus, ABUSE CURB®, PABCO® High Impact, PABCO® Glass Sheathing or PABCO® Gypsum 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> <li> One layer 5/8" type X (FLAME CURB®, MOLD CURB® Plus, ABUSE CURB®, PABCO® High Impact, PABCO® Glass Sheathing or PABCO® Gypsum Sheathing) gypsum panel applied vertically.</li> <li> 1-5/8" Type S drywall screws 8" o.c. at edges and 12" o.c. in the field.</li> </ul>	<p><b>STC 45</b> NOAL 18-0626</p>	<p><b>1 Hour</b> UL U425</p>
<p>5-1/2" Thick, 8.5 lb/ft<sup>2</sup>, Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		