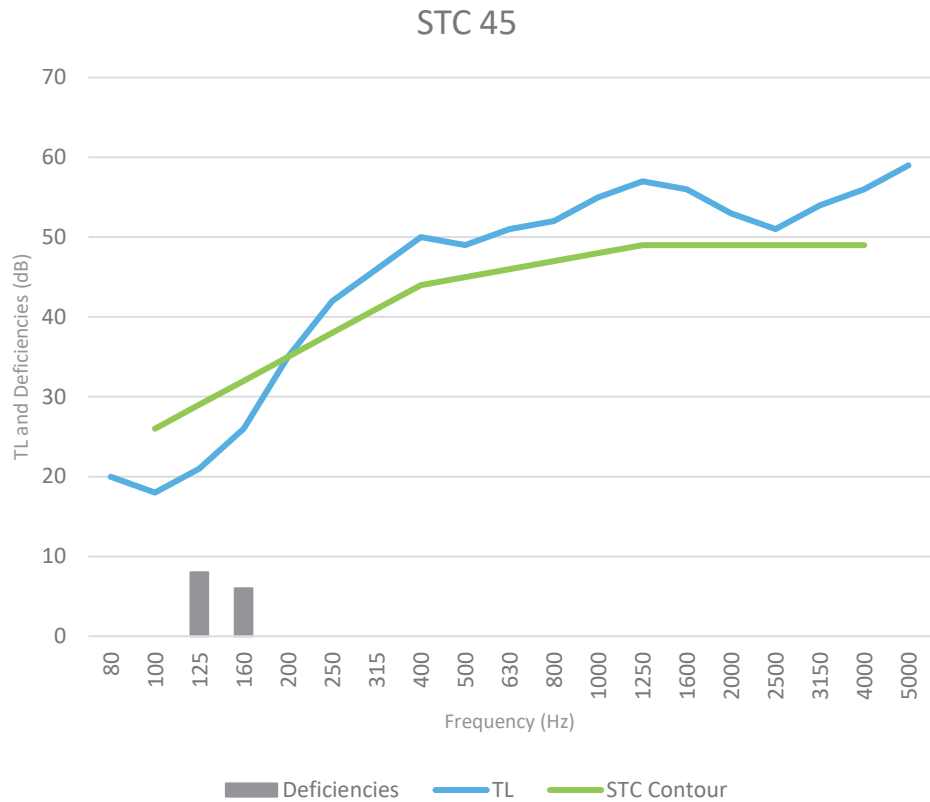


**Acoustic Data**

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0735
Assembly Type:	Wall	Test Date:	7/18/2018
Method:	ASTM E90-09	Report Date:	8/31/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	20	
100	18	
125	21	8
160	26	6
200	35	
250	42	
315	46	
400	50	
500	49	
630	51	
800	52	
1000	55	
1250	57	
1600	56	
2000	53	
2500	51	
3150	54	
4000	56	
5000	59	
<b>Total Deficiencies</b>		<b>14</b>



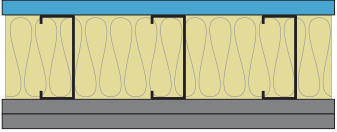








**Assembly Mass**

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m2)
5/8" Flame Curb® Type X gypsum panel	202.5 (91.9)	2.11 (10.30)
5/8" Flame Curb® Type X gypsum panel	202.3 (91.8)	2.11 (10.29)
3-5/8" 43 mil (18 ga.) steel studs spaced 16" oc	113.8 (51.6)	1.19 (5.79)
3-1/2" glass fiber insulation	22.0 (10.0)	0.23 (1.12)
5/8" QuietRock® ES Type X gypsum panel	254.0 (115.2)	2.65 (12.92)
<b>Total</b>	<b>794.6 (360.5)</b>	<b>8.29 (40.42)</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-01-10-151</b></p> 	<ul style="list-style-type: none"> <li> 1-1/4" Type S drywall screws (for fire 1" 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" 43 mil (18 ga.) steel studs, 16" o.c.</li> <li> 3-1/2" glass fiber insulation in stud space.</li> <li> Base layer 5/8" type X (FLAME CURB<sup>®</sup>, WATER CURB<sup>®</sup>, MOLD CURB<sup>®</sup> Plus, ABUSE CURB<sup>®</sup>, PABCO<sup>®</sup> High Impact, PABCO<sup>®</sup> Glass Sheathing or PABCO<sup>®</sup> Gypsum Sheathing) gypsum panel applied vertically.</li> <li> 1-1/4" Type S drywall screws (for fire 1" Type S drywall screws) spaced 8" o.c. at edges and 12" o.c. in the field.</li> <li> Face layer 5/8" type X (FLAME CURB<sup>®</sup>, WATER CURB<sup>®</sup>, MOLD CURB<sup>®</sup> Plus, ABUSE CURB<sup>®</sup>, PABCO<sup>®</sup> High Impact, PABCO<sup>®</sup> Glass Sheathing or PABCO<sup>®</sup> Gypsum Sheathing) gypsum panel applied vertically.</li> <li> 1-5/8" Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field.</li> </ul>	<p><b>STC 45</b> NOAL 18-0735</p>	<p><b>1 Hour</b> UL U425</p>
<p>5-1/2" Thick, 8.3 lb/ft<sup>2</sup>, Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		