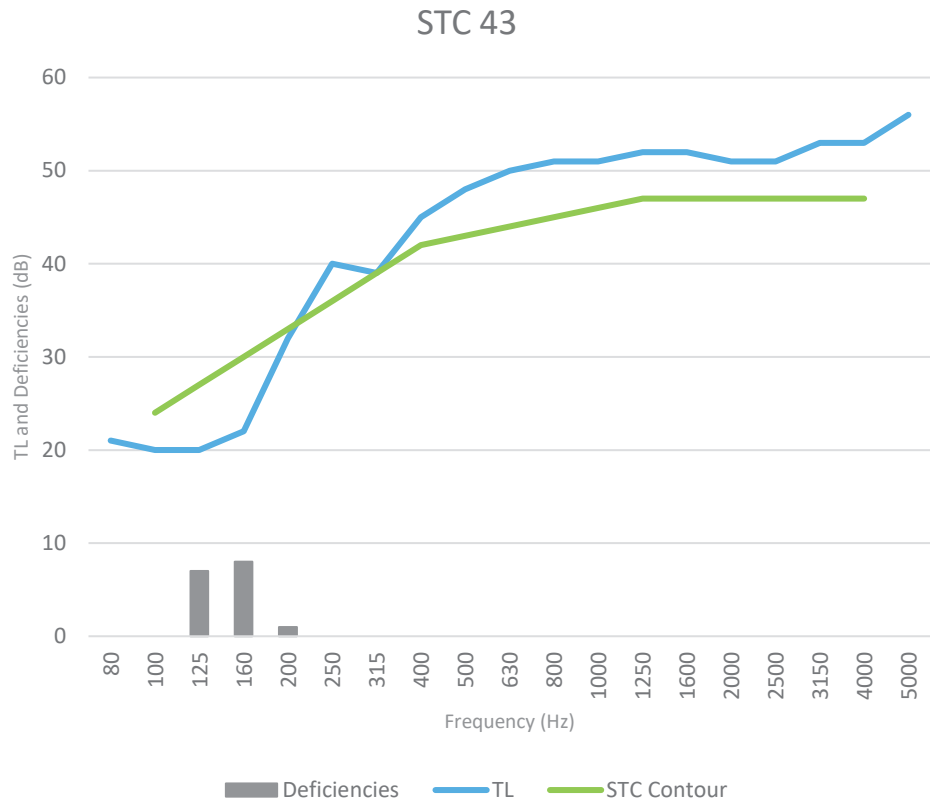


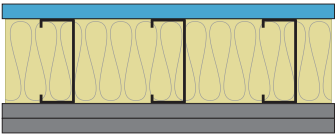








Acoustic Data			
Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0721
Assembly Type:	Wall	Test Date:	7/16/2018
Method:	ASTM E90-09	Report Date:	8/31/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	21	
100	20	
125	20	7
160	22	8
200	32	1
250	40	
315	39	
400	45	
500	48	
630	50	
800	51	
1000	51	
1250	52	
1600	52	
2000	51	
2500	51	
3150	53	
4000	53	
5000	56	
<b>Total Deficiencies</b>		<b>16</b>



Assembly Mass		
Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
5/8" QuietRock® ES Type X gypsum panel	254.0 (115.2)	2.65 (12.92)
3-5/8" 97 mil (12 ga.) steel studs spaced 16" OC	246.2 (111.7)	2.56 (12.52)
3-1/2" glass fiber insulation	22.0 (10.0)	0.23 (1.12)
5/8" Flame Curb® Type X gypsum panel	203.8 (92.4)	2.12 (10.36)
5/8" Flame Curb® Type X gypsum panel	204.4 (92.7)	2.13 (10.40)
<b>Total</b>	<b>930.40 (422.02)</b>	<b>9.69 (47.32)</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-01-10-355</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" 97 mil (12 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®, 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> Face 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 spaced 8" o.c. at edges and 12" o.c. in the field.</li> </ul>	<p><b>STC 43</b> NOAL 18-0721</p>	<p><b>1 Hour</b> UL U425</p>
<p>5.1/2" Thick, 9.7 lb/ft<sup>2</sup>, Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		