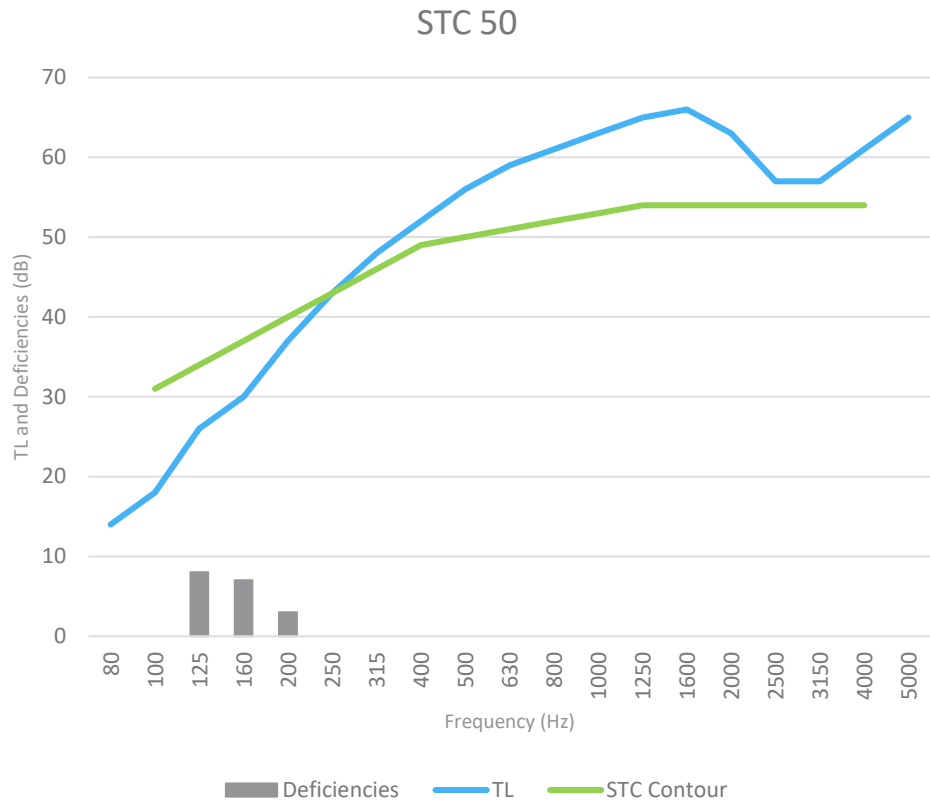


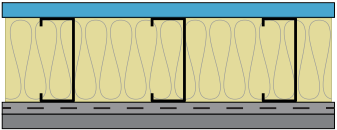








Acoustic Data			
Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0611
Assembly Type:	Wall	Test Date:	6/5/2018
Method:	ASTM E90-09	Report Date:	8/29/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	14	
100	18	
125	26	8
160	30	7
200	37	3
250	43	
315	48	
400	52	
500	56	
630	59	
800	61	
1000	63	
1250	65	
1600	66	
2000	63	
2500	57	
3150	57	
4000	61	
5000	65	
<b>Total Deficiencies</b>		<b>18</b>



Assembly Mass		
Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
5/8" Flame Curb® Type X gypsum panel	197.1 (89.4)	2.05 (10.02)
Resilient channels spaced 24" OC	12.8 (5.8)	0.13 (0.65)
3-5/8" 68 mil (14 ga.) steel studs spaced 16" OC	172.4 (9.7)	0.22 (1.09)
3-1/2" glass fiber insulation	199.9 (90.7)	2.08 (10.17)
5/8" QuietRock® ES Type X gypsum panel	254.6 (115.5)	2.65 (12.95)
<b>Total</b>	<b>658.30 (298.60)</b>	<b>6.86 (33.48)</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-01-10-310</b></p> 	<ul style="list-style-type: none"> <li> 1-1/4" Type S 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" 68 mil (14 ga.) steel studs, 16" o.c.</li> <li> 3-1/2" glass fiber insulation in stud space.</li> <li> Resilient channel applied at right-angle, 24" o.c.</li> <li> 1/2" Type S screws attaching resilient channel to stud at each intersection.</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" Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field.</li> </ul>	<p><b>STC 50</b> NOAL 18-0611</p>	<p><b>1 Hour</b> UL U425</p>
<p>5-3/8" Thick, 6.9 lb/ft<sup>2</sup>, Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		