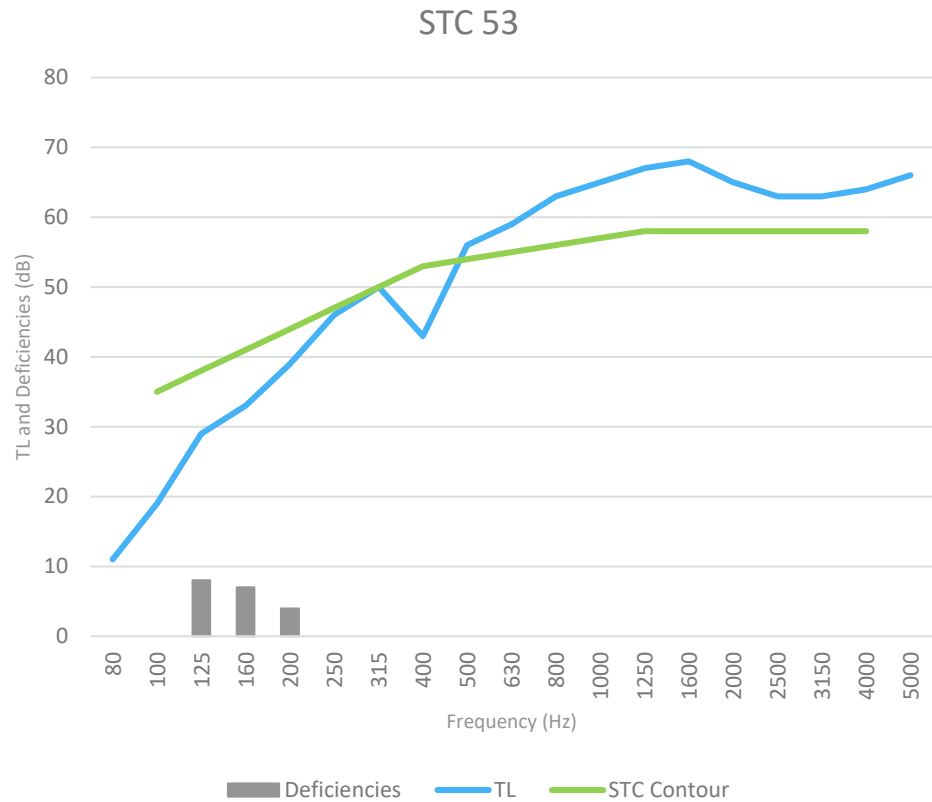


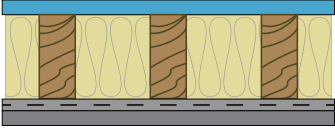








Acoustic Data			
Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 17-0747
Assembly Type:	Wall	Test Date:	7/20/2017
Method:	ASTM E90-09	Report Date:	10/24/2017

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	11	
100	19	
125	29	8
160	33	7
200	39	4
250	46	
315	50	
400	43	
500	56	
630	59	
800	63	
1000	65	
1250	67	
1600	68	
2000	65	
2500	63	
3150	63	
4000	64	
5000	66	
Total Deficiencies		19



Assembly Mass		
Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" Flame Curb® Type X gypsum panel	202.0 (91.6)	2.10 (10.27)
Resilient channels 24" oc	13.4 (6.1)	0.14 (0.68)
2"x4" wood studs spaced 16" oc	113.2 (51.3)	1.18 (5.76)
3-1/2" glass fiber insulation	21.6 (9.8)	0.23 (1.10)
5/8" QuietRock ES®	264.8 (120.1)	2.76 (13.47)
Total	614.8 (278.8)	6.41 (31.27)

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>PGD-02-10-155</p> 	<ul style="list-style-type: none">  1-7/8" Type W drywall screws 7" o.c.  One Layer 5/8" QuietRock[®] ES or QuietRock[®] ES MR Type X gypsum panel applied vertically.  2 x 4 wood studs 16" o.c.  3-1/2" glass fiber insulation in stud space.  Resilient channel applied at right-angle, 24" o.c.  1-1/4 Type W pan head screw attaching Resilient Channel to studs.  One layer type X (FLAME CURB[®], MOLD CURB[®] Plus, ABUSE CURB[®], PABCO[®] Impact Resistant, PABCO[®] Glass Sheathing or PABCO[®] Gypsum Sheathing) gypsum panel applied horizontally.  1" Type S drywall screws 8" o.c. 	<p>STC 53 NOAL 17-0747</p>	<p>1 Hour UL U305 GA WP-3264</p>
<p>5-1/4" Thick, 5 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered all layers, and on opposite sides.</p>		