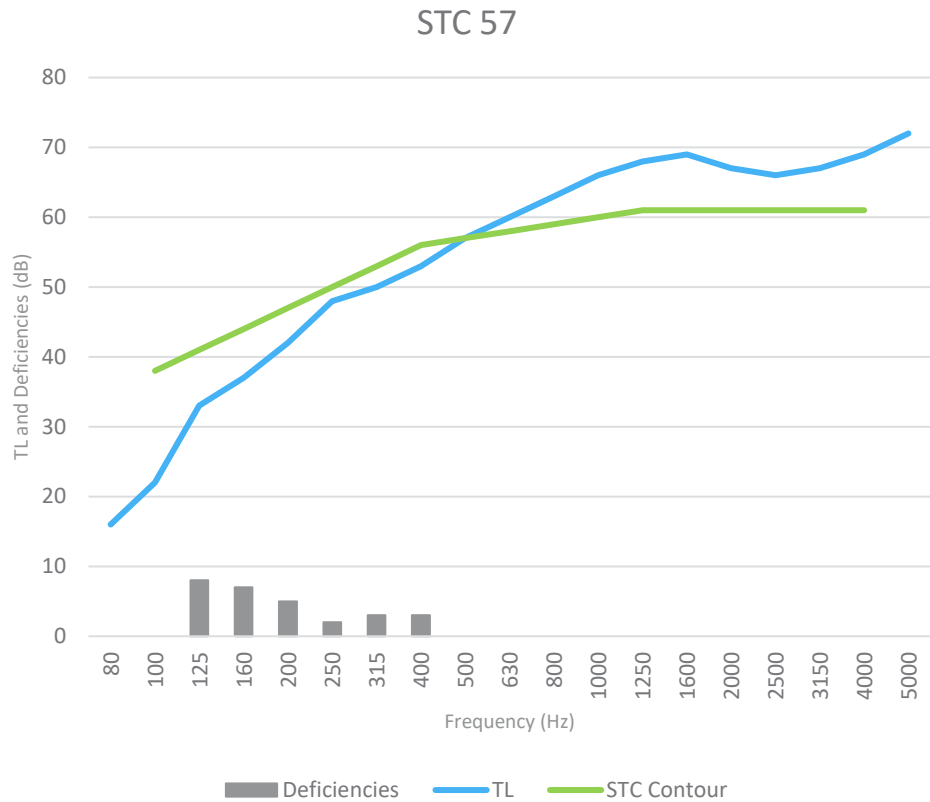


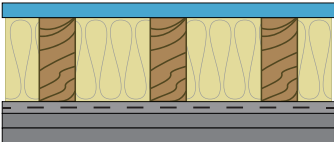










Acoustic Data			
Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 17-0745
Assembly Type:	Wall	Test Date:	7/20/2017
Method:	ASTM E90-09	Report Date:	12/18/2017

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	16	
100	22	
125	33	8
160	37	7
200	42	5
250	48	2
315	50	3
400	53	3
500	57	
630	60	
800	63	
1000	66	
1250	68	
1600	69	
2000	67	
2500	66	
3150	67	
4000	69	
5000	72	
Total Deficiencies		28



Assembly Mass		
Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" Flame Curb® Type X gypsum panel	200.4 (90.9)	2.09 (10.19)
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	815.2 (369.7)	8.50 (41.46)

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-02-10-151</p> 	<ul style="list-style-type: none">  1-7/8" Type W drywall screws spaced 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.  Base 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 12" o.c.  Face layer: type X (FLAME CURB[®], MOLD CURB[®] Plus, ABUSE CURB[®], PABCO[®] Impact Resistant, PABCO[®] Glass Sheathing or PABCO[®] Gypsum Sheathing) gypsum panel applied horizontally.  1-5/8" Type W drywall screws spaced 12" o.c. 	<p>STC 57 NOAL 17-0745</p>	<p>1 Hour UL U305</p>
<p>5-7/8" Thick, 7.2 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered all layers, and on opposite sides</p>		