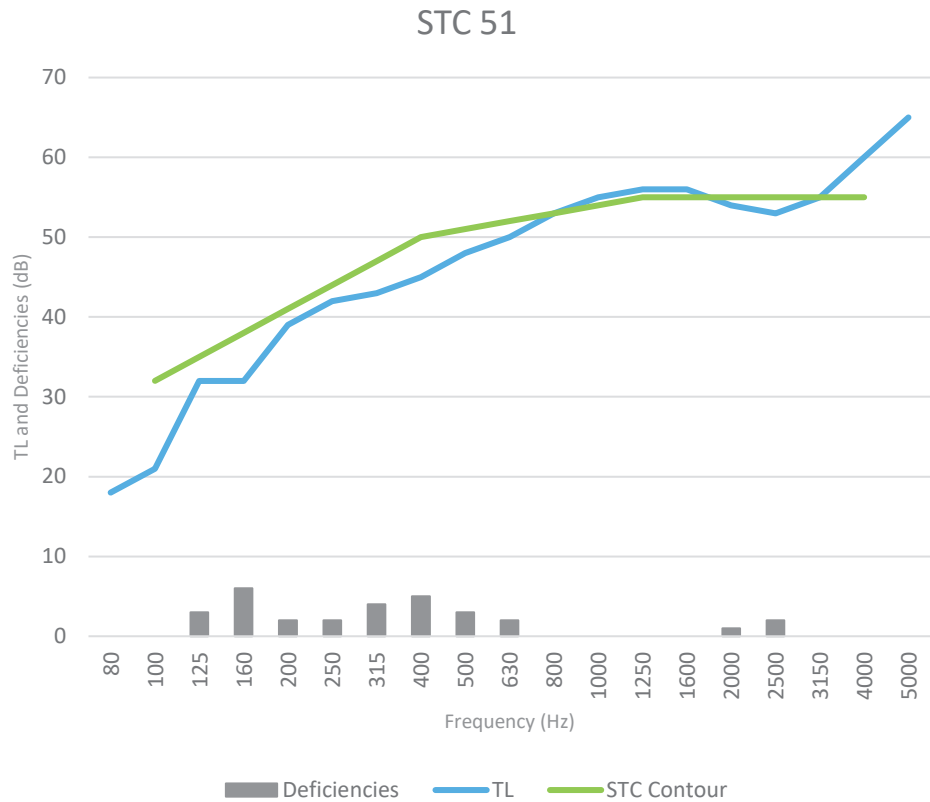


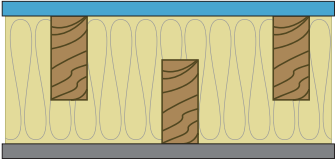






Acoustic Data			
Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 17-0940
Assembly Type:	Wall	Test Date:	9/22/2017
Method:	ASTM E90-09	Report Date:	2/27/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	18	
100	21	
125	32	3
160	32	6
200	39	2
250	42	2
315	43	4
400	45	5
500	48	3
630	50	2
800	53	
1000	55	
1250	56	
1600	56	
2000	54	1
2500	53	2
3150	55	
4000	60	
5000	65	
Total Deficiencies		30



Assembly Mass		
Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock ES®	266.0 (120.7)	2.77 (13.53)
2"x4" wood studs spaced 16" oc staggered 8" oc on 2"x6" plates	209.8 (95.2)	2.19 (10.67)
6-1/4" glass fiber insulation	25.8 (11.7)	0.27 (1.31)
5/8" Flame Curb® Type X gypsum panel	202.6 (91.9)	2.11 (10.30)
Total	704.2 (319.5)	7.34 (35.81)

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 data-bbox="212 359 396 386">PGD-02-10-014</p>  <p data-bbox="134 978 472 1003">6-3/4" Thick, 7.4 lb/ft², Load Bearing.</p>	<ul style="list-style-type: none"> <li data-bbox="529 363 1089 415">  1-7/8" Type S or W bugle head drywall screws 7" o.c. <li data-bbox="529 478 1089 531">  One layer 5/8" QuietRock[®] ES or QuietRock[®] ES MR type X gypsum panel applied vertically. <li data-bbox="529 573 1089 636">  2 x 4 wood studs 16" o.c. staggered 8" o.c. on 2x6 plates. <li data-bbox="529 678 1089 730">  6" glass fiber insulation in stud space. <li data-bbox="529 772 1089 867">  One Layer 5/8" Type X (FLAME CURB[®], MOLD CURB[®] Plus, ABUSE CURB[®], PABCO[®] Impact Resistant, PABCO[®] Glass Sheathing or PABCO[®] Gypsum Sheathing) gypsum panel applied vertically. <li data-bbox="529 888 1089 940">  1-7/8" Type S or W bugle head drywall screws 7" o.c. 	<p data-bbox="1133 636 1273 699" style="text-align: center;">STC 51 NOAL 17-0940</p>	<p data-bbox="1377 636 1458 699" style="text-align: center;">1 Hour UL U340</p>
	<p data-bbox="529 978 932 1003">Vertical joints staggered on opposite sides.</p>		