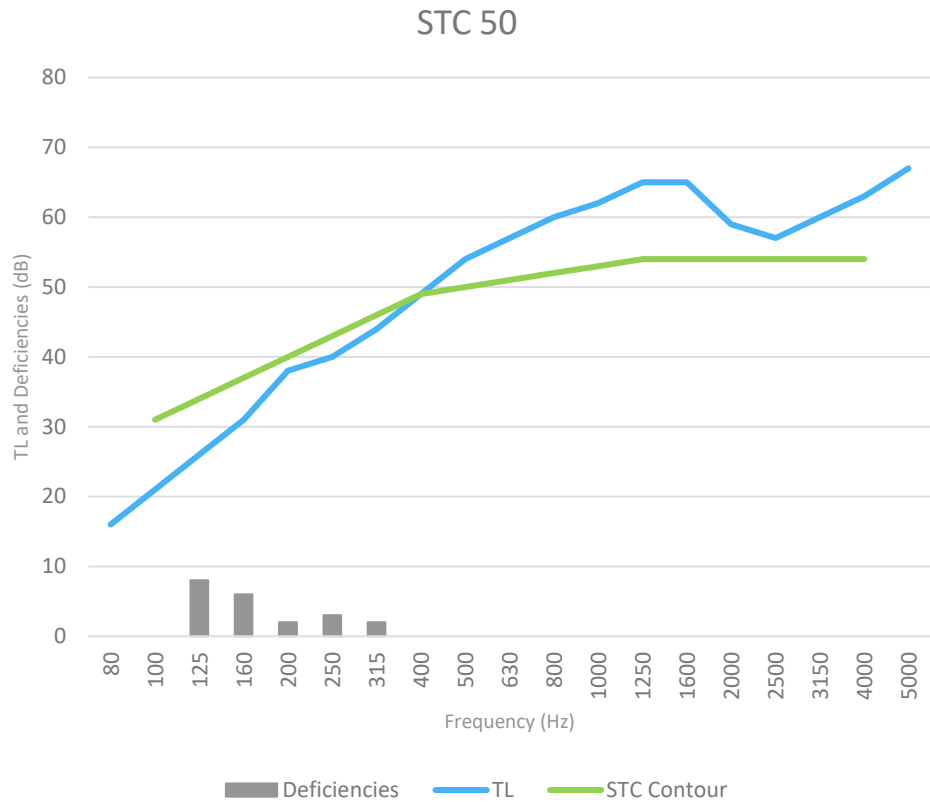


Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 17-0459
Assembly Type:	Wall	Test Date:	4/21/2017
Method:	ASTM E90-09	Report Date:	6/1/2017

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	16	
100	21	
125	26	8
160	31	6
200	38	2
250	40	3
315	44	2
400	49	
500	54	
630	57	
800	60	
1000	62	
1250	65	
1600	65	
2000	59	
2500	57	
3150	60	
4000	63	
5000	67	
Total Deficiencies		21



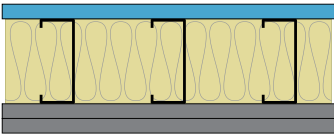








Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m2)
5/8" Flame Curb® Type X gypsum panel	204.2 (92.6)	2.13 (10.39)
5/8" Flame Curb® Type X gypsum panel	202.4 (91.8)	2.11 (10.29)
3-5/8" (20 ga.) EQ (19 mil) spaced 16" OC	47.2 (21.4)	0.49 (2.40)
3-1/2" unfaced fiberglass insulation batts	14.2 (6.4)	0.15 (0.72)
5/8" QuietRock® ES Type X gypsum panel	264.6 (120.0)	2.76 (13.46)
Total	732.60 (332.30)	7.63 (37.26)

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-01-10-213</p> 	<ul style="list-style-type: none">  1" Type S screws spaced 8" o.c. at edges and 12" o.c. in the field.  One Layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.  3-5/8" 19 mil (20 ga. EQ) steel studs, 16" o.c.  3-1/2" glass fiber insulation in stud space.  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 horizontally.  1" Type S screws spaced 8" o.c. at edges and 12" o.c. in the field.  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 horizontally.  1-5/8" Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field. 	<p>STC 50 NOAL 17-0459</p>	<p>1 Hour U465, V464</p>
<p>5-1/2" Thick, 7.7 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		