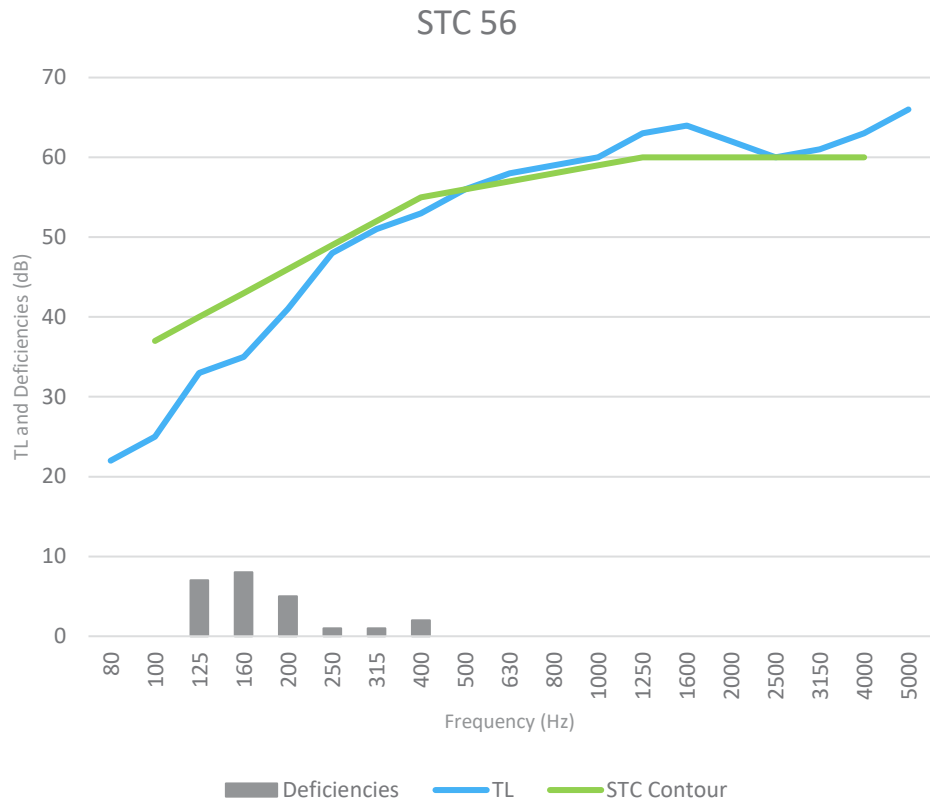


Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0732
Assembly Type:	Wall	Test Date:	7/17/2018
Method:	ASTM E90-09	Report Date:	8/31/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	22	
100	25	
125	33	7
160	35	8
200	41	5
250	48	1
315	51	1
400	53	2
500	56	
630	58	
800	59	
1000	60	
1250	63	
1600	64	
2000	62	
2500	60	
3150	61	
4000	63	
5000	66	
Total Deficiencies		24



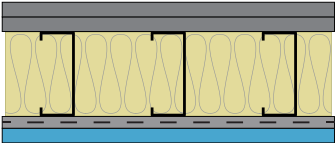










Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock® ES Type X gypsum panel	255.6 (115.9)	2.66 (13.00)
Resilient channels spaced 24" OC	13.4 (6.1)	0.14 (0.68)
3-5/8" 97 mil (12 ga.) steel studs spaced 16" OC	246.2 (111.7)	2.56 (12.52)
3-1/2" glass fiber insulation	22.0 (10.0)	0.23 (1.12)
5/8" Flame Curb® Type X gypsum panel	203.8 (92.4)	2.12 (10.36)
5/8" Flame Curb® Type X gypsum panel	204.4 (92.7)	2.13 (10.40)
Total	945.40 (428.83)	9.85 (48.08)

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-01-10-340</p> 	<ul style="list-style-type: none">  1-5/8" Type S drywall 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 vertically.  1-1/4" Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field.  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 vertically.  3-5/8" 97 mil (12 ga.) steel studs, 16" o.c.  3-1/2" glass fiber insulation in stud space.  Resilient channel applied at right-angle, 24" o.c.  1/2" Type S screws attaching resilient channel to stud at each intersection.  One Layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.  1" Type S drywall screws spaced 12" o.c. 	<p>STC 56 NOAL 18-0732</p>	<p>1 Hour UL U425</p>
<p>6" Thick, 9.9 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		