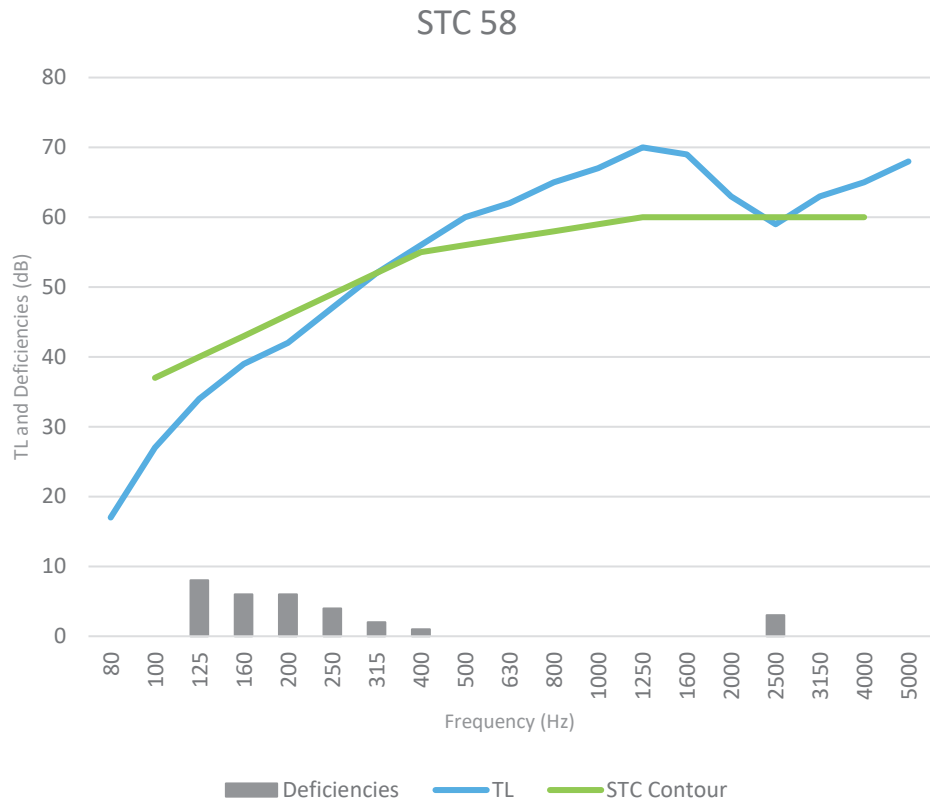


Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 17-0435
Assembly Type:	Wall	Test Date:	4/17/2017
Method:	ASTM E90-09	Report Date:	6/1/2017

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	17	
100	27	
125	34	8
160	39	6
200	42	6
250	47	4
315	52	2
400	56	1
500	60	
630	62	
800	65	
1000	67	
1250	70	
1600	69	
2000	63	
2500	59	3
3150	63	
4000	65	
5000	68	
Total Deficiencies		30



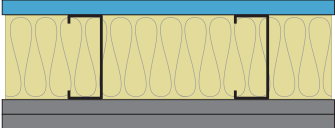








Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock® ES Type X gypsum panel	264.4 (119.9)	2.75 (13.45)
3-5/8" 15 mil (25 ga.) steel studs spaced 24" oc	28.0 (12.7)	0.29 (1.42)
3-1/2" glass fiber insulation	23.2 (10.5)	0.24 (1.18)
5/8" Flame Curb® Type X gypsum panel	201.2 (91.3)	2.10 (10.23)
5/8" Flame Curb® Type X gypsum panel	202.2 (91.7)	2.11 (10.28)
Total	719.00 (326.13)	7.49 (36.57)

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-01-10-011</p> 	<ul style="list-style-type: none">  1" Type S screws (for fire minimum 1-1/4" 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" 15 mil (25 ga. EQ) steel studs, 24" 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 vertically.  1" Type S screws (for fire minimum 1-1/4" Type S screws) spaced 16" o.c.  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.  1-5/8" Type S screws (for fire minimum 1-7/8" Type S screws) spaced 8" o.c. at edges and 12" o.c. in the field. 	<p>STC 58 NOAL 17-0435</p>	<p>1 Hour UL V464 GA WP-0975</p>
<p>5-1/2" Thick, 7.5 lb/ft², Non-Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		