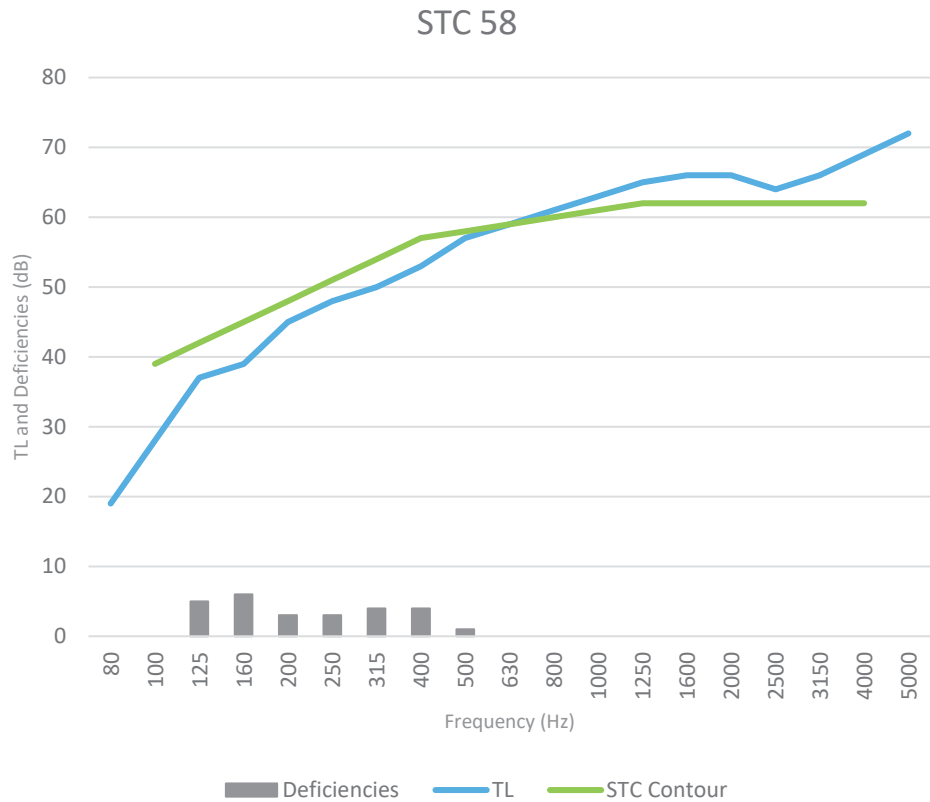


Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 17-0509
Assembly Type:	Wall	Test Date:	5/16/2017
Method:	ASTM E90-09	Report Date:	12/19/2017

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	19	
100	28	
125	37	5
160	39	6
200	45	3
250	48	3
315	50	4
400	53	4
500	57	1
630	59	
800	61	
1000	63	
1250	65	
1600	66	
2000	66	
2500	64	
3150	66	
4000	69	
5000	72	
Total Deficiencies		26



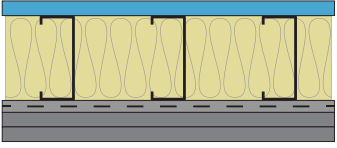










Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" Flame Curb® Type X gypsum panel	203.6 (92.4)	2.12 (10.35)
5/8" Flame Curb® Type X gypsum panel	201.4 (91.4)	2.10 (10.24)
Resilient Channels 24" oc	13.0 (5.9)	0.14 (0.66)
3-5/8" 19 mil (20 ga.) steel studs spaced 16" oc	45.6 (20.7)	0.48 (2.32)
3-1/2" glass fiber insulation	15.2 (6.9)	0.16 (0.77)
5/8" QuietRock® ES Type X gypsum panel	265.2 (120.3)	2.76 (13.49)
Total	744.00 (337.47)	7.75 (37.84)

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-01-10-105</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.  Resilient channel applied at right-angle, 24" o.c.  Type S-12 screw attaching Resilient Channel to stud at each intersection.  Base layer 5/8" type X (FLAME CURB®, PABCO® Glass Sheathing) gypsum panel applied vertically.  1" Type S screws spaced 8" o.c. at edges and 12" o.c. in the field. <hr/> <ul style="list-style-type: none">  Face layer 5/8" type X (FLAME CURB®, PABCO® Glass Sheathing) gypsum panel applied vertically.  1-5/8" Type S screws spaced 8" o.c. at edges and 12" o.c. in the field. 	<p>STC 58 NOAL 17-0509</p>	<p>1 Hour UL U465</p>
<p>6" Thick, 7.8 lb/ft², Non-Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		