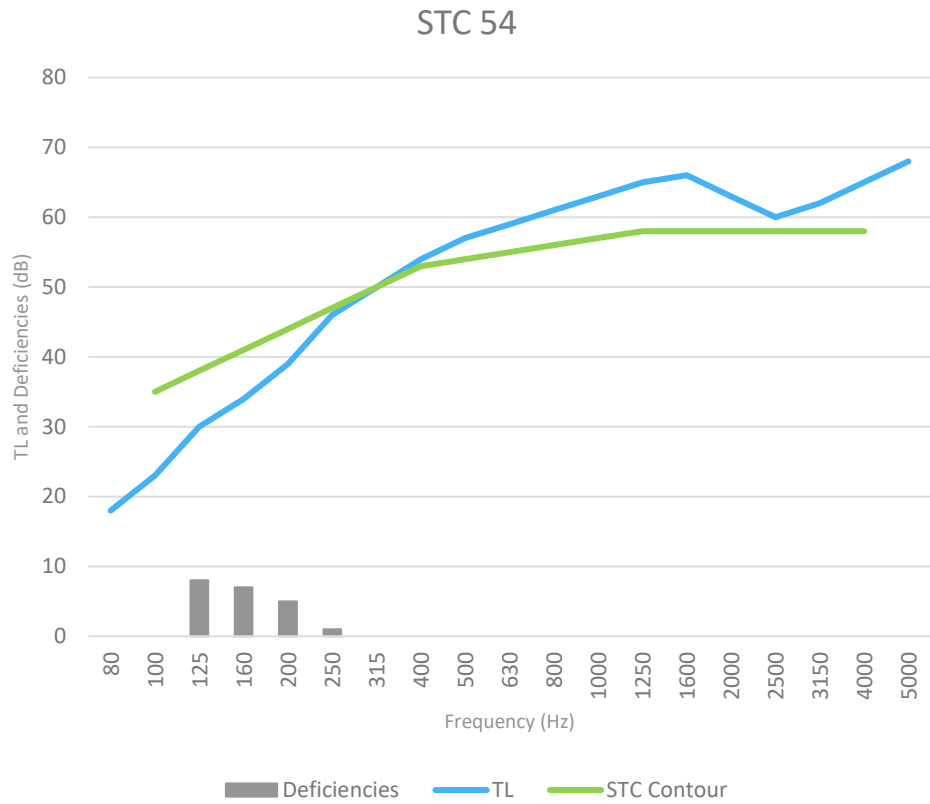


Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0640
Assembly Type:	Wall	Test Date:	6/8/2018
Method:	ASTM E90-09	Report Date:	8/29/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	18	
100	23	
125	30	8
160	34	7
200	39	5
250	46	1
315	50	
400	54	
500	57	
630	59	
800	61	
1000	63	
1250	65	
1600	66	
2000	63	
2500	60	
3150	62	
4000	65	
5000	68	
Total Deficiencies		21



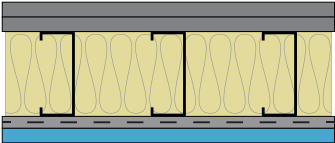










Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock® ES Type X gypsum panel	251.0 (113.9)	2.61 (12.77)
Resilient channels 24" oc	12.8 (5.8)	0.13 (0.65)
3-5/8" 54 mil (16 ga.) steel studs spaced 16" oc	138.8 (63.0)	1.45 (7.06)
3-1/2" glass fiber insulation	21.4 (9.7)	0.22 (1.09)
5/8" Flame Curb® Type X gypsum panel	197.8 (89.7)	2.06 (10.06)
5/8" Flame Curb® Type X gypsum panel	199.9 (90.7)	2.08 (10.17)
Total	821.7 (372.72)	8.56 (41.79)

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-01-10-255</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" 54 mil (16 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 and 12" o.c. 	<p>STC 54 NOAL 18-0640</p>	<p>1 Hour UL U425</p>
<p>6" Thick, 8.6 b/ft², Non-Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		