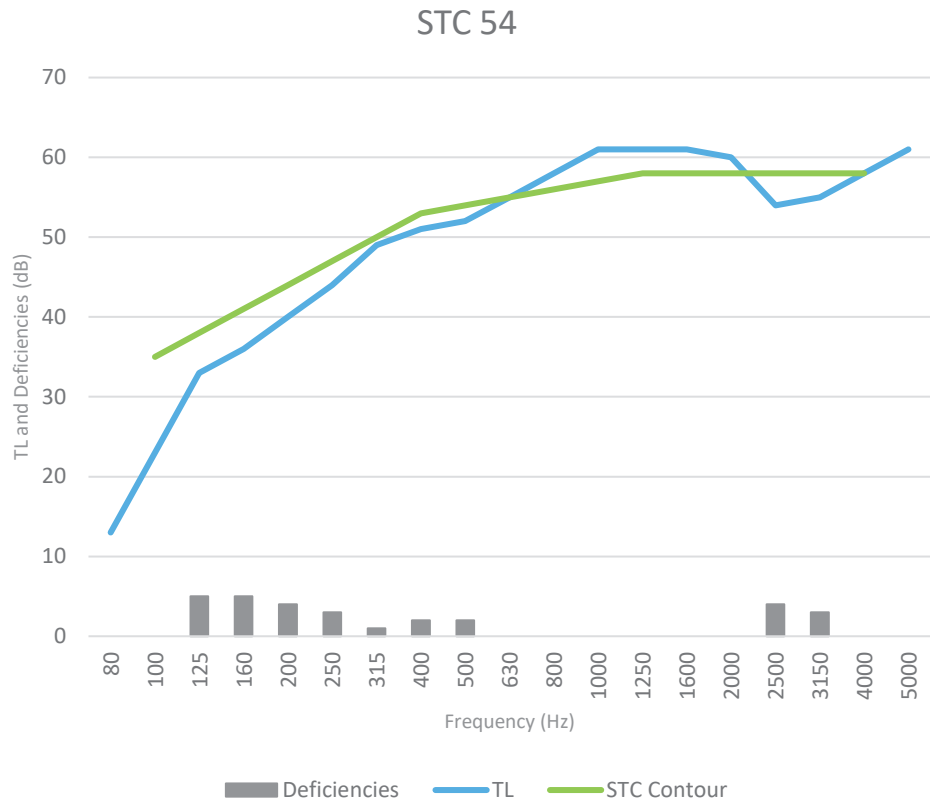


Acoustic Data			
Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0205
Assembly Type:	Wall	Test Date:	2/1/2018
Method:	ASTM E90-09	Report Date:	2/3/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	13	
100	23	
125	33	5
160	36	5
200	40	4
250	44	3
315	49	1
400	51	2
500	52	2
630	55	
800	58	
1000	61	
1250	61	
1600	61	
2000	60	
2500	54	4
3150	55	3
4000	58	
5000	61	
<b>Total Deficiencies</b>		<b>29</b>



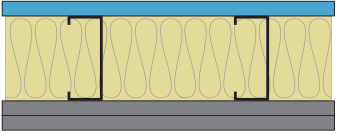








### Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
5/8" QuietRock® ES Type X gypsum panel	260.2 (118.0)	2.71 (13.23)
3-5/8" 33 mil (20 ga.) steel studs spaced 24" oc	57.6 (26.1)	0.60 (2.93)
3-1/2" glass fiber insulation	23.2 (10.5)	0.24 (1.18)
5/8" Flame Curb® Type X gypsum panel	199.0 (90.3)	2.07 (10.12)
5/8" Flame Curb® Type X gypsum panel	198.0 (89.8)	2.06 (10.07)
<b>Total</b>	<b>738.00 (334.75)</b>	<b>7.69 (37.53)</b>

### 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><b>PGD-01-10-191</b></p> 	<ul style="list-style-type: none"> <li> 1" Type S drywall screws spaced 8" at edges and 12" in the field.</li> <li> One Layer 5/8" QuietRock<sup>®</sup> ES or QuietRock<sup>®</sup> ES MR type X gypsum panel applied vertically.</li> <li> 3-5/8" 33 mil (20 ga.) steel studs, 24" o.c.</li> <li> 3-1/2" glass fiber insulation in stud space.</li> <li> OPPOSITE SIDE: Base layer: 5/8" type X (FLAME CURB<sup>®</sup>, WATER CURB<sup>®</sup>, MOLD CURB<sup>®</sup> Plus, ABUSE CURB<sup>®</sup>, PABCO<sup>®</sup> High Impact, PABCO<sup>®</sup> Glass Sheathing or PABCO<sup>®</sup> Gypsum Sheathing) gypsum panel applied horizontally.</li> <li> 1" Type S drywall screws spaced 8" at edges and 12" in the field.</li> <li> Face layer: 5/8" type X (FLAME CURB<sup>®</sup>, WATER CURB<sup>®</sup>, MOLD CURB<sup>®</sup> Plus, ABUSE CURB<sup>®</sup>, PABCO<sup>®</sup> High Impact, PABCO<sup>®</sup> Glass Sheathing or PABCO<sup>®</sup> Gypsum Sheathing) gypsum panel applied horizontally.</li> <li> 2" Type S drywall screws (for fire 1-5/8" Type S drywall screws) spaced 12" in the field.</li> </ul>	<p style="text-align: center;"><b>STC 54</b> NOAL 18-0205</p>	<p style="text-align: center;"><b>1 Hour</b> U465</p>
<p>5-1/2" Thick, 7.75 lb/ft<sup>2</sup>, Non-Load Bearing.</p>	<p>Vertical joints staggered 16" on opposite sides.</p>		