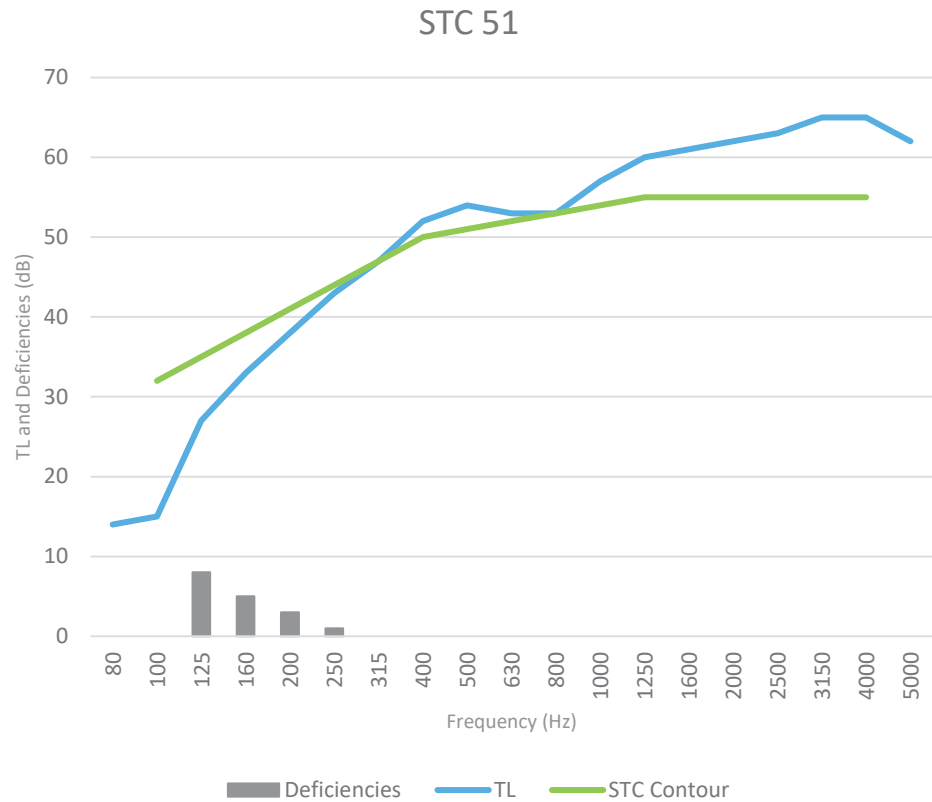


Acoustic Data			
Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0911
Assembly Type:	Wall	Test Date:	9/13/2018
Method:	ASTM E90-09	Report Date:	10/20/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	14	
100	15	
125	27	8
160	33	5
200	38	3
250	43	1
315	47	
400	52	
500	54	
630	53	
800	53	
1000	57	
1250	60	
1600	61	
2000	62	
2500	63	
3150	65	
4000	65	
5000	62	
Total Deficiencies		17



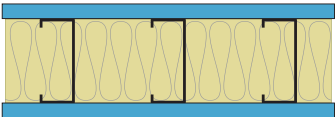






Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock® 530Type X gypsum panel	265.4 (120.4)	2.76 (13.50)
3-5/8" 54 mil (16 ga.) steel studs spaced 16" oc	145.6 (66.0)	1.52 (7.41)
3-1/2" glass fiber insulation	20.0 (9.1)	0.21 (1.02)
5/8" QuietRock® 530Type X gypsum panel	264.0 (119.7)	2.75 (13.43)
Total	695.00 (315.25)	7.24 (35.35)

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-01-10-261</p> 	<ul style="list-style-type: none">  1" Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field.  One Layer 5/8" QuietRock[®] 530 type X 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.  One Layer 5/8" QuietRock[®] 530 type X gypsum panel applied vertically.  1" Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field. 	<p>STC 51 NOAL 18-0911</p>	<p>1 Hour UL U425</p>
<p>4-7/8" Thick, 7.3 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		