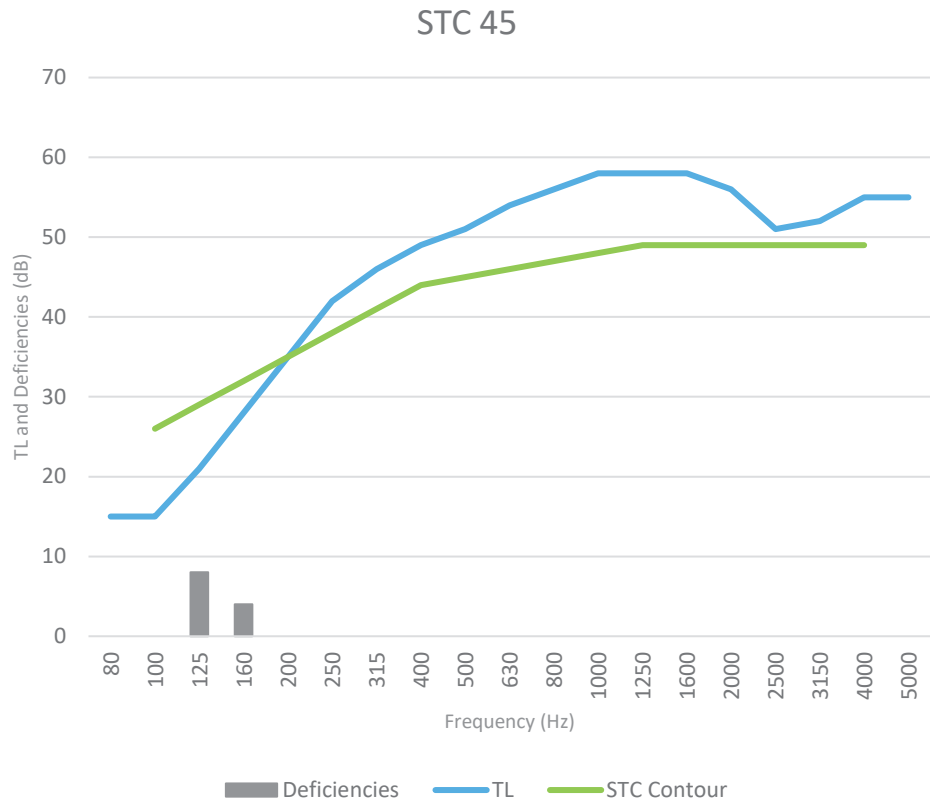


Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0750
Assembly Type:	Wall	Test Date:	7/20/2018
Method:	ASTM E90-09	Report Date:	8/31/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	15	
100	15	
125	21	8
160	28	4
200	35	
250	42	
315	46	
400	49	
500	51	
630	54	
800	56	
1000	58	
1250	58	
1600	58	
2000	56	
2500	51	
3150	52	
4000	55	
5000	55	
Total Deficiencies		12



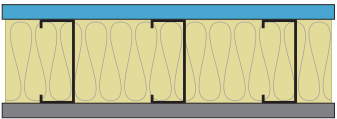






Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" Flame Curb® Type X gypsum panel	202.3 (91.8)	2.11 (10.29)
3-5/8" 33 mil (20 ga.) steel studs spaced 16" OC	90.4 (41.0)	0.94 (4.60)
3.5" glass fiber insulation	22.0 (10.0)	0.23 (1.12)
5/8" QuietRock® ES Type X gypsum panel	255.4 (115.8)	2.66 (12.99)
Total	570.10 (258.59)	5.94 (28.99)

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-01-10-231</p> 	<ul style="list-style-type: none">  1-1/4" Type S drywall 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" 33 mil (20 ga.) steel studs, 16" o.c.  3-1/2" glass fiber insulation in stud space.  One 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. 	<p>STC 45 NOAL 18-0750</p>	<p>1 Hour UL U425</p>
<p>4-7/8" Thick, 6lb/ft², Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		