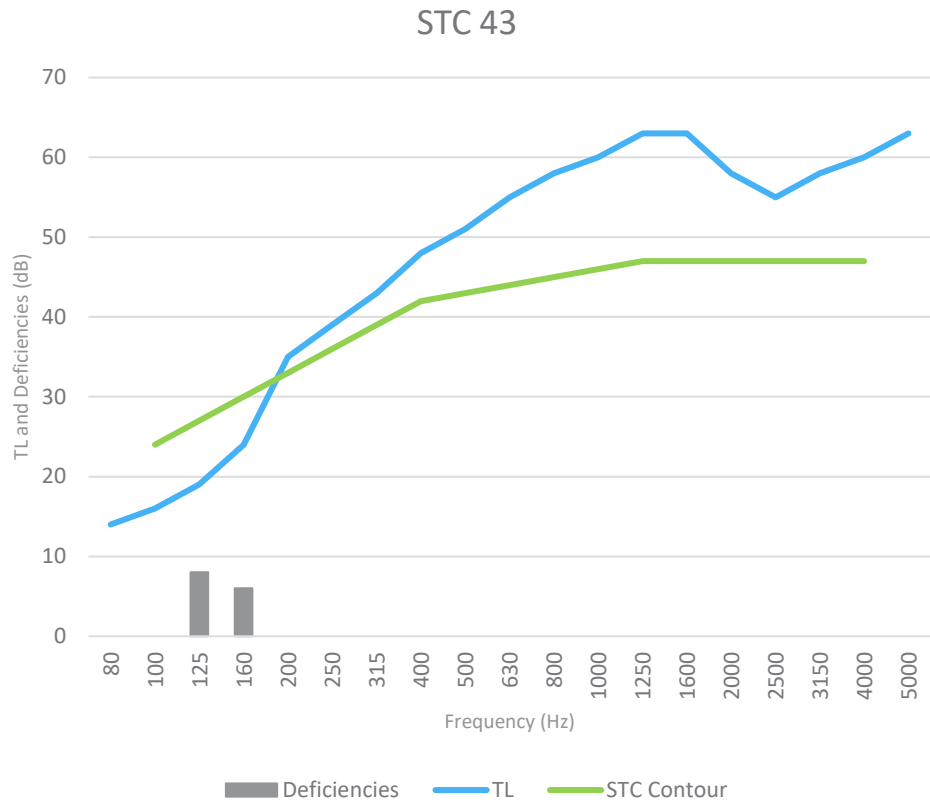


Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 17-0460
Assembly Type:	Wall	Test Date:	4/21/2017
Method:	ASTM E90-09	Report Date:	6/1/2017

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	14	
100	16	
125	19	8
160	24	6
200	35	
250	39	
315	43	
400	48	
500	51	
630	55	
800	58	
1000	60	
1250	63	
1600	63	
2000	58	
2500	55	
3150	58	
4000	60	
5000	63	
Total Deficiencies		14



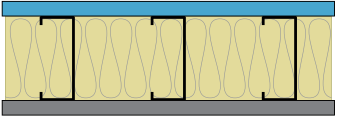






Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" Flame Curb® Type X gypsum panel	202.4 (91.8)	2.11 (10.29)
3-5/8" 20 ga. EQ (19 mil) spaced 16" OC	47.2 (21.4)	0.49 (2.40)
3.5" unfaced fiberglass insulation batts	14.2(6.4)	0.15 (0.72)
5/8" QuietRock® ES Type X gypsum panel	264.6 (120.0)	2.76 (13.46)
Total	528.40 (239.68)	5.50 (26.87)

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 data-bbox="212 359 391 386">PGD-01-10-221</p> 	<ul style="list-style-type: none"> <li data-bbox="529 380 1084 436">  1" Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field). <li data-bbox="529 499 1084 556">  One Layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically. <li data-bbox="529 598 1084 655">  3-5/8" 19 mil (20 ga. EQ) steel studs, 16" o.c. <li data-bbox="529 697 1084 753">  3-1/2" glass fiber insulation in stud space. <li data-bbox="529 795 1084 852">  One 5/8" type X (FLAME CURB®, PABCO® Glass Sheathing) gypsum panel applied horizontally. <li data-bbox="529 894 1084 951">  1" Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field). 	<p data-bbox="1166 632 1235 659">STC 43</p> <p data-bbox="1133 663 1268 690">NOAL 17-0460</p>	<p data-bbox="1382 632 1451 659">1 Hour</p> <p data-bbox="1390 663 1443 690">U465</p>
<p data-bbox="110 968 496 995">4-7/8" Thick, 5.5 lb/ft², Non-Load Bearing.</p>	<p data-bbox="521 968 927 995">Vertical joints staggered on opposite sides.</p>		