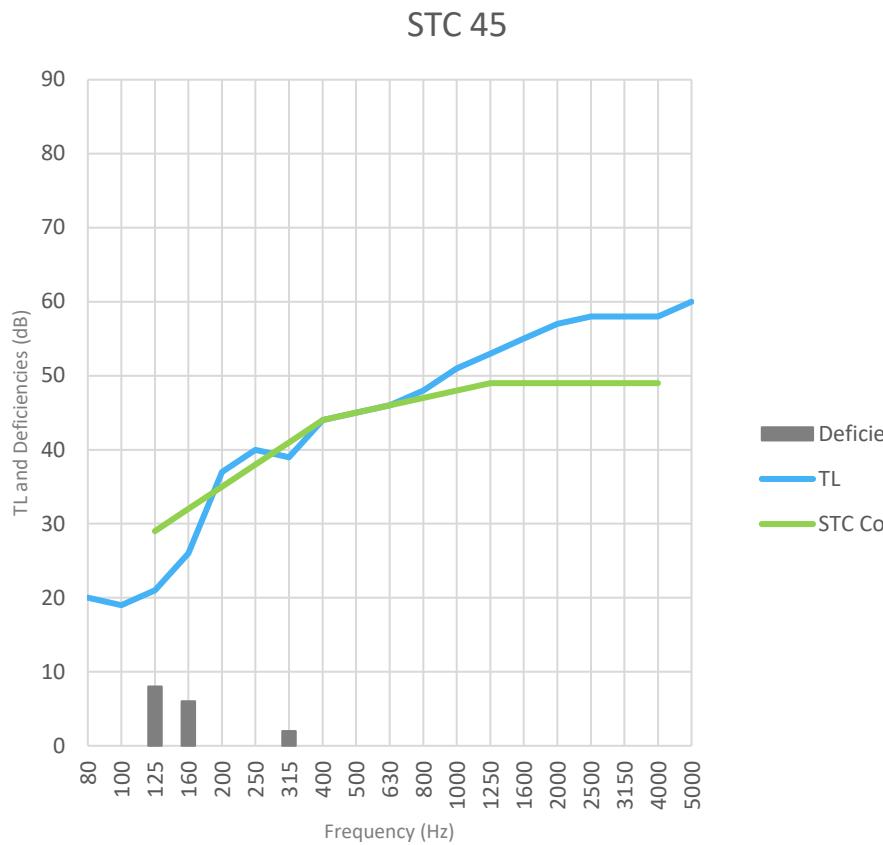


Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 20-0412
Assembly Type:	Wall	Test Date:	4/03/2020
Method:	ASTM E90-09	Report Date:	6/15/2020

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	20	
100	19	
125	21	8
160	26	6
200	37	
250	40	
315	39	2
400	44	
500	45	
630	46	
800	48	
1000	51	
1250	53	
1600	55	
2000	57	
2500	58	
3150	58	
4000	58	
5000	60	
Total Deficiencies	16	


Assembly Mass

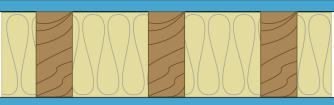
Building Element	Mass	Surface Weight
	lb (kg)	PSF (kg/m ²)
5/8" QuietRock® ES type X gypsum panel	256.0 (116.1)	2.67 (13.03)
2x4 wood studs spaced 16" oc	113.6 (51.5)	1.18 (5.78)
3-1/2" glass fiber insulation	22.8 (10.3)	0.24 (1.16)
5/8" QuietRock® ES type X gypsum panel	259.4 (117.7)	2.70 (13.19)
Total	651.8 (295.6)	6.79 (33.16)

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

PGD-W-574-16	
STC 45 NOAL 20-0412 - 16" o.c. 	 2" Type W drywall screws 8" o.c. (for fire 1-7/8" Type W drywall screws 7" o.c.).  One layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.  2 x 4 wood studs 16" o.c.  3-1/2", R-13 glass fiber insulation friction fit into stud cavity.  One layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.
Fire: 1 Hour - UL U305 GA WP 3377 Thickness: 4-3/4" Approx weight: 6.8 lb/ft ²	 "Type W drywall screws 8" o.c. (for fire 1-7/8" Type W drywall screws 7" o.c.)."
Load Bearing Vertical joints staggered on opposite sides	


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