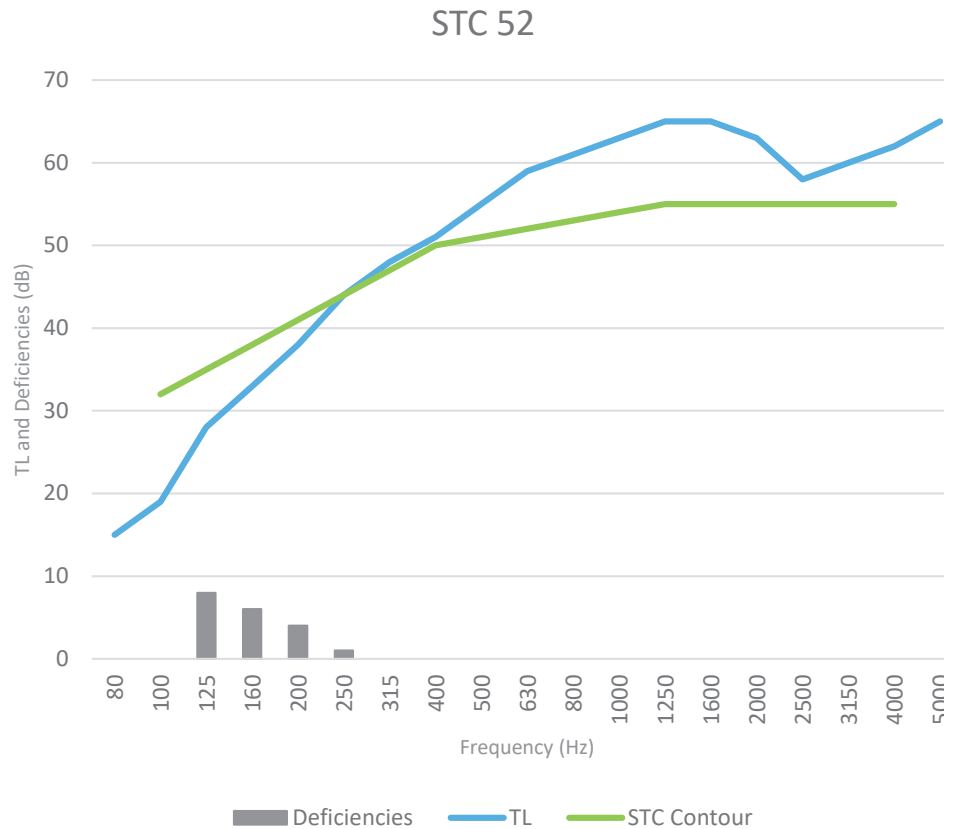


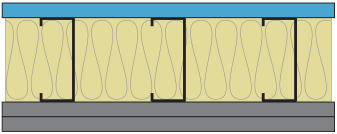








Acoustic Data			
Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0860
Assembly Type:	Wall	Test Date:	8/23/2018
Method:	ASTM E90-09	Report Date:	10/26/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	15	
100	19	
125	28	8
160	33	6
200	38	4
250	44	1
315	48	
400	51	
500	55	
630	59	
800	61	
1000	63	
1250	65	
1600	65	
2000	63	
2500	58	
3150	60	
4000	62	
5000	65	
Total Deficiencies		19



Assembly Mass		
Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock® ES Type X gypsum panel	254.2 (115.3)	2.65 (12.93)
3-5/8" 18 mil (25 ga.) steel studs spaced 16" oc	39.6 (18.0)	0.41 (2.01)
3-1/2" glass fiber insulation	20.6 (9.3)	0.21 (1.05)
5/8" Flame Curb® Type X gypsum panel	204.2 (92.6)	2.13 (10.39)
5/8" Flame Curb® Type X gypsum panel	203.8 (92.4)	2.12 (10.36)
Total	722.4 (327.6)	7.52 (36.74)

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-01-10-065</p> 	<ul style="list-style-type: none">  1" Type S 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" 18 mil (25 ga.) steel studs, 16" o.c.  3-1/2" glass fiber insulation in stud space.  Base layer 5/8" type X (FLAME CURB®, PABCO® Glass Sheathing) gypsum panel applied vertically.  1" Type S screws spaced 8" o.c. at edges and 12" o.c. in the field.  Face layer 5/8" type X (FLAME CURB®, PABCO® Glass Sheathing) gypsum panel applied vertically.  1-5/8" Type S screws spaced 8" o.c. at edges and 12" o.c. in the field. 	<p>STC 52 NOAL 18-0860</p>	<p>1 Hour UL U465</p>
<p>5-1/2" Thick, 7.53 lb/ft², Non-Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		