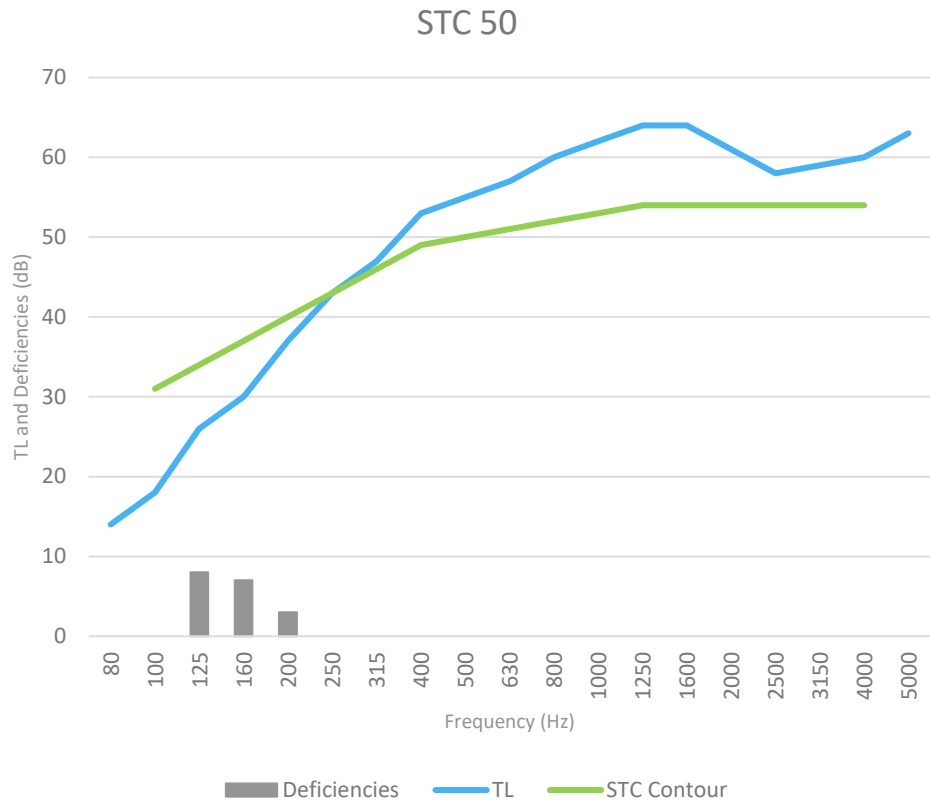


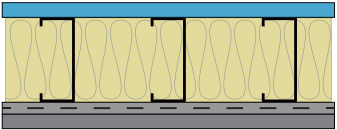








Acoustic Data			
Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0729
Assembly Type:	Wall	Test Date:	7/17/2018
Method:	ASTM E90-09	Report Date:	8/31/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	14	
100	18	
125	26	8
160	30	7
200	37	3
250	43	
315	47	
400	53	
500	55	
630	57	
800	60	
1000	62	
1250	64	
1600	64	
2000	61	
2500	58	
3150	59	
4000	60	
5000	63	
Total Deficiencies		18



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)
Resilient channels spaced 24" OC	13.4 (6.1)	0.14 (0.68)
3-5/8" 97 mil (12 ga.) steel studs spaced 16" OC	246.2 (111.7)	2.56 (12.52)
3-1/2" glass fiber insulation	22.0 (10.0)	0.23 (1.12)
5/8" QuietRock® ES Type X gypsum panel	254.0 (115.2)	2.65 (12.92)
Total	737.90 (334.71)	7.69 (37.53)

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-01-10-345</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" 97 mil (12 ga.) steel studs, 16" o.c.  3-1/2" glass fiber insulation in stud space.  Resilient channel applied at right-angle, 24" o.c.  1/2" Type S screws attaching resilient channel to stud at each intersection.  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" Type S drywall screws spaced 12" o.c. 	<p>STC 50 NOAL 18-0729</p>	<p>1 Hour UL U425</p>
<p>5-3/8" Thick, 7.7 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		