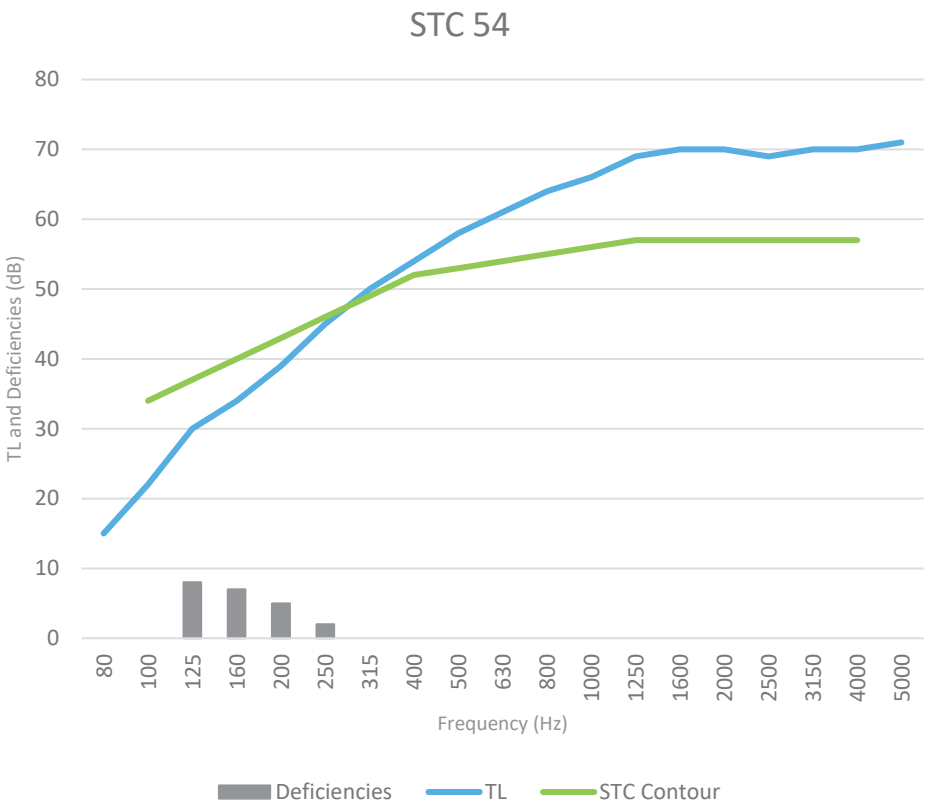
QuietRock® by PABCO Gypsum

Summary Assembly and Acoustic Data Report
PGD-01-10-121

Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0844
Assembly Type:	Wall	Test Date:	8/21/2018
Method:	ASTM E90-09	Report Date:	10/26/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	15	
100	22	
125	30	8
160	34	7
200	39	5
250	45	2
315	50	
400	54	
500	58	
630	61	
800	64	
1000	66	
1250	69	
1600	70	
2000	70	
2500	69	
3150	70	
4000	70	
5000	71	
Total Deficiencies		22



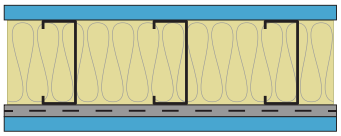
Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m2)
5/8” QuietRock® ES Type X gypsum panel	254.2 (115.3)	2.65 (12.93)
Resilient Channels 24” oc	13.4 (6.1)	0.14 (0.68)
3-5/8” 15 mil (25 ga.) steel studs spaced 16” oc	36.6 (16.6)	0.38 (1.86)
3-1/2” glass fiber insulation	20.6 (9.3)	0.21 (1.05)
5/8” Flame Curb® Type X gypsum panel	253.8 (115.1)	2.64 (12.91)
Total	578.60 (262.45)	6.03 (29.43)

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
PGD-01-10-121 	1″ Type S screws (for fire minimum 1-14″ 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″ 15 mil (25 ga. EQ) 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 chanel to stud at each intersection. One Layer 5/8″ QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically. 1″ Type S drywall screws at 12″ o.c.	**STC 54** NOAL 18-0844	**1 Hour** UL V464
5-3/8″ Thick, 6 lb/ft², Non-Load Bearing.	Vertical joints staggered 16″ on opposite sides.		