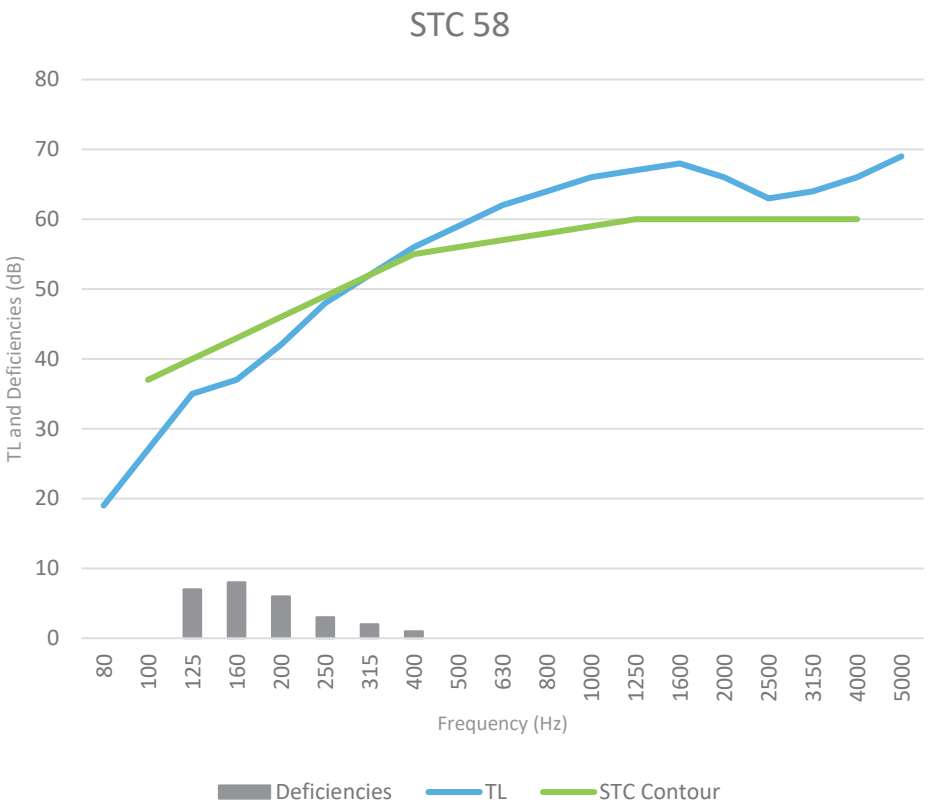
QuietRock® by PABCO Gypsum

Summary Assembly and Acoustic Data Report
PGD-01-10-101

Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0846
Assembly Type:	Wall	Test Date:	8/21/2018
Method:	ASTM E90-09	Report Date:	10/26/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	19	
100	27	
125	35	7
160	37	8
200	42	6
250	48	3
315	52	2
400	56	1
500	59	
630	62	
800	64	
1000	66	
1250	67	
1600	68	
2000	66	
2500	63	
3150	64	
4000	66	
5000	69	
Total Deficiencies		27



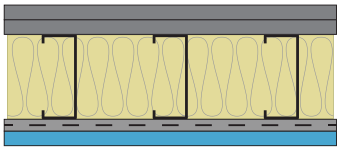
Assembly Mass

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	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	732.80 (332.39)	7.63 (37.27)

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-01-10-101 	1-5/8″ Type S screws (for fire minimum 1-7/8″ Type S screws) spaced 8″ o.c. at edges and 12″ o.c. in the field. Face layer: 5/8″ type X (FLAME CURB®, WATER CURB®, MOLD CURB® Plus, ABUSE CURB®, PABCO® High Impact, PABCO® Glass Sheathing or PABCO® Gypsum Sheathing) gypsum panel applied vertically. 1″ Type S screws (for fire minimum 1-1/4″ Type S screws) spaced 16″ o.c. Base layer 5/8″ type X (FLAME CURB®, WATER CURB®, MOLD CURB® Plus, ABUSE CURB®, PABCO® High Impact, PABCO® Glass Sheathing or PABCO® Gypsum Sheathing) 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″ #8 Type S pan head screw attaching Resilient Chanel to stud flange at alternate intersections. 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 58** NOAL 18-0846	**1 Hour** UL V464
6″ Thick, 7.65lb/ft^2, Non-Load Bearing.	Vertical joints staggered on opposite sides.		