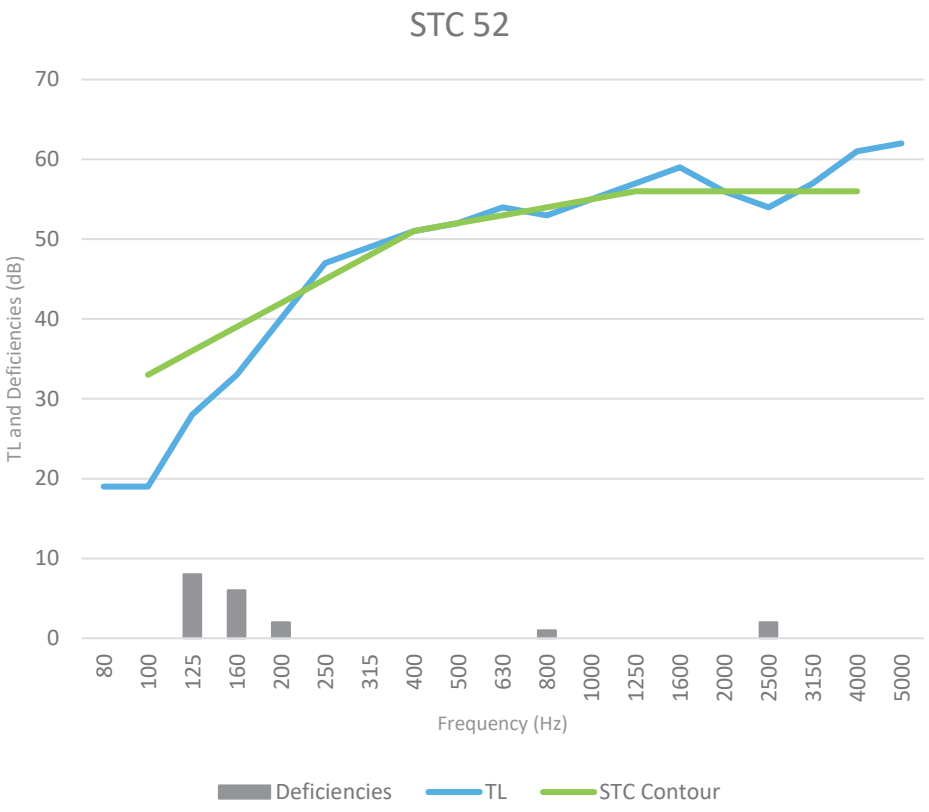
QuietRock® by PABCO Gypsum

Summary Assembly and Acoustic Data Report
PGD-01-10-251

Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0909
Assembly Type:	Wall	Test Date:	9/12/2018
Method:	ASTM E90-09	Report Date:	10/20/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	19	
100	19	
125	28	8
160	33	6
200	40	2
250	47	
315	49	
400	51	
500	52	
630	54	
800	53	1
1000	55	
1250	57	
1600	59	
2000	56	
2500	54	2
3150	57	
4000	61	
5000	62	
Total Deficiencies		19



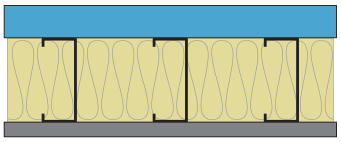
Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m2)
1-3/8” QuietRock® 545 Type X gypsum panel	553.6 (251.1)	5.77 (28.16)
3-5/8” 54 mil (16 ga.) steel studs spaced 16” oc	145.6 (66.0)	1.52 (7.41)
3-1/2” glass fiber insulation	20.0 (9.1)	0.21 (1.02)
5/8” Flame Curb® Type X gypsum panel	201.0 (91.2)	2.09 (10.22)
Total	920.20 (417.40)	9.59 (46.80)

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-01-10-251 	1-7/8" Type S drywall screws (for fire 2" Type S screws) spaced 8" o.c. at edges and 12" o.c. in the field). Single 1-3/8" QuietRock® 545 gypsum panel applied vertically. 3-5/8" 54 mil (16 ga.) steel studs, 16" o.c. 3-1/2" glass fiber insulation in stud space. 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. 1-1/4" Type S drywall screws 8" o.c. at edges and 12" o.c. in the field.	**STC 52** NOAL 18-0909	**1 Hour** UL 425
5-5/8" Thick, 9.6 lb/ft^2, Load Bearing.	Vertical joints staggered on opposite sides.		