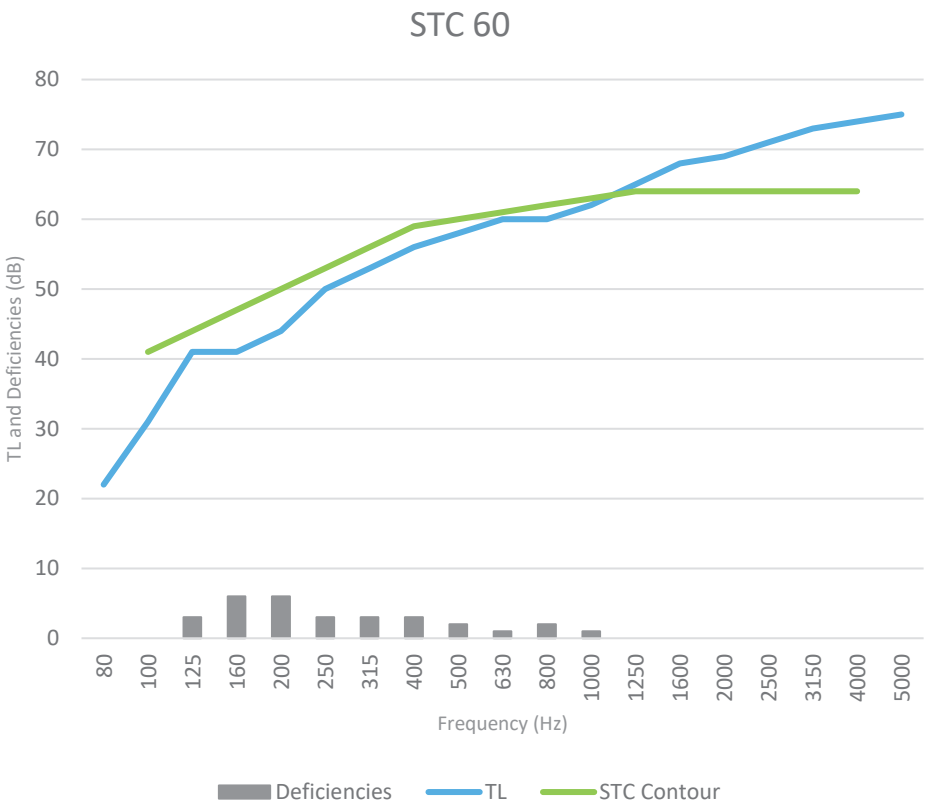
QuietRock® by PABCO Gypsum

Summary Assembly and Acoustic Data Report
PGD-01-20-031

Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0910
Assembly Type:	Wall	Test Date:	9/12/2018
Method:	ASTM E90-09	Report Date:	10/20/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	22	
100	31	
125	41	3
160	41	6
200	44	6
250	50	3
315	53	3
400	56	3
500	58	2
630	60	1
800	60	2
1000	62	1
1250	65	
1600	68	
2000	69	
2500	71	
3150	73	
4000	74	
5000	75	
Total Deficiencies		30



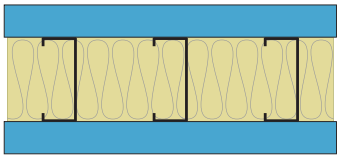
Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m2)
1-3/8” QuietRock® 545 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 (1.20)
1-3/8” QuietRock® 545 gypsum panel	567.6 (257.5)	5.91 (28.87)
Total	1,286.8 (583.7)	13.41 (65.64)

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-01-20-031 	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. Single 1-3/8" QuietRock® 545 gypsum panel applied vertically. 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.	**STC 60** NOAL 18-0910	**2 Hour** UL W466, U425
6-3/8" Thick, 13.4 lb/ft^2, Load Bearing.	Vertical joints staggered on opposite sides.		