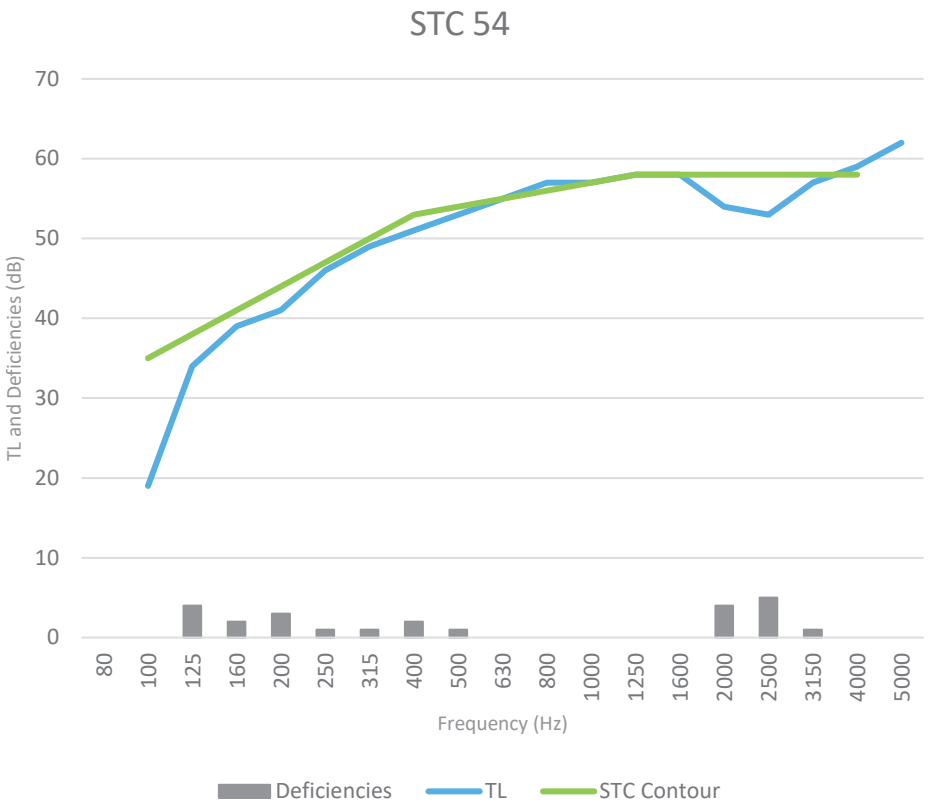
QuietRock® by PABCO Gypsum

Summary Assembly and Acoustic Data Report
PGD-01-10-060

Acoustic Data

Test Site:	Riverbank Acoustical Laboratories 1512 S. Batavia Ave., Geneva, IL 60134	Test Number:	RAL TL07-030
Assembly Type:	Wall	Test Date:	1/25/2007
Method:	ASTM E90-09	Report Date:	1/25/2007

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80		
100	19	
125	34	4
160	39	2
200	41	3
250	46	1
315	49	1
400	51	2
500	53	1
630	55	
800	57	
1000	57	
1250	58	
1600	58	
2000	54	4
2500	53	5
3150	57	1
4000	59	
5000	62	
Total Deficiencies		24



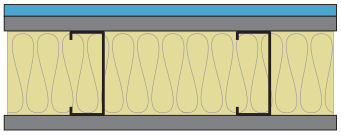
Assembly Mass

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m2)
1/2” QuietRock® 510 gypsum panel	147.0 (66.7)	2.02 (9.86)
5/8” Flame Curb® Type X gypsum panel	153.0 (69.4)	2.10 (10.25)
3-5/8” 18 mil (25 ga.) steel studs spaced 24” oc	21.5 (9.2)	0.30 (1.46)
3-1/2” glass fiber insulation	20.5 (9.3)	0.28 (1.37)
5/8” Flame Curb® Type X gypsum panel	153.0 (69.4)	2.10 (10.25)
Total	495.0 (224)	6.80 (33.2)

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-01-10-060 	2-1/2 in. Type S drywall screws spaced 16″ o.c. Face layer: 1/2″ QuietRock® 510 applied vertically. 1-5/8″ Type S drywall screws 16″ o.c. (for fire1″ Type S screws spaced 8″ o.c. at edges and 12″ o.c. in the field). Base layer: 5/8″ type X (FLAME CURB® or PABCO® Glass Sheathing) gypsum panel applied vertically. 3-5/8″ 15 mil (25 ga. EQ) steel studs, 24″ o.c. 3-1/2″ glass fiber insulation in stud space. Face layer: 5/8″ type X (FLAME CURB® or PABCO® Glass Sheathing) gypsum panel applied vertically. 1-5/8″ Type S drywall screws 16″ o.c. (for fire1″ Type S screws spaced 8″ o.c. at edges and 12″ o.c. in the field).	**STC 54** RAL-TL07-030	**1 Hour** UL U465
5-3/8″ Thick, 6.8 lb/ft^2, Non-Load Bearing.	Vertical joints staggered on opposite sides.		