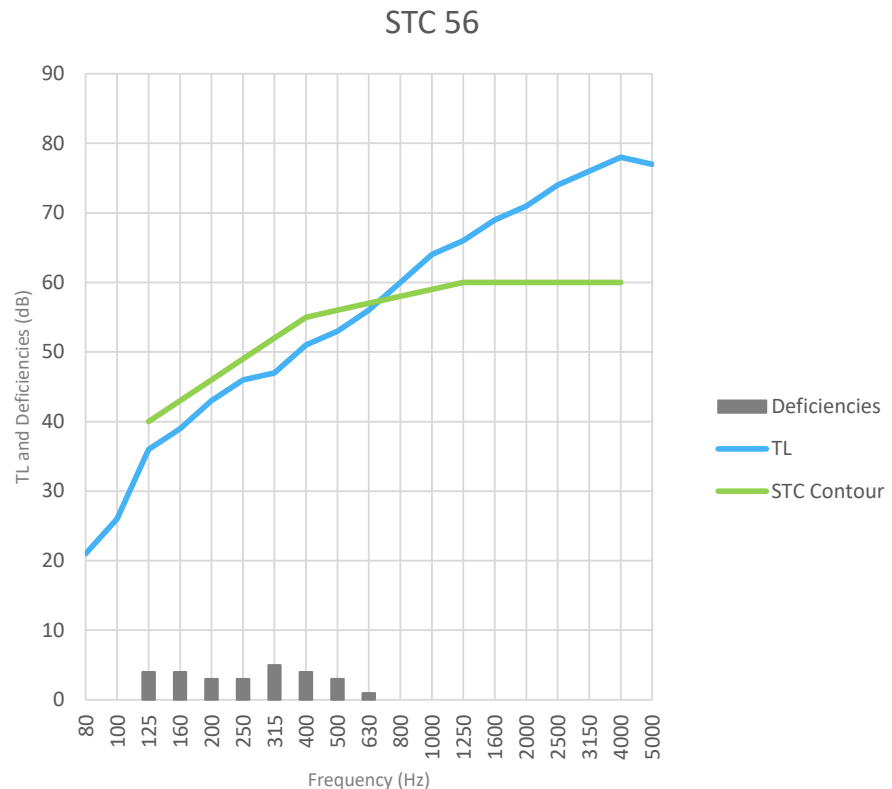


Acoustic Data

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 20-0409
Assembly Type:	Wall	Test Date:	4/02/2020
Method:	ASTM E90-09	Report Date:	6/15/2020

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	21	
100	26	
125	36	4
160	39	4
200	43	3
250	46	3
315	47	5
400	51	4
500	53	3
630	56	1
800	60	
1000	64	
1250	66	
1600	69	
2000	71	
2500	74	
3150	76	
4000	78	
5000	77	
Total Deficiencies		27



Assembly Mass

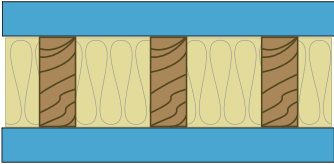






Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
1-3/8" QuietRock® 545 gypsum panel	569.4 (258.3)	5.93 (28.96)
2x4 wood studs spaced 16" oc	113.6 (51.5)	1.18 (5.78)
3-1/2" glass fiber insulation	22.8 (10.3)	0.24 (1.16)
1-3/8" QuietRock® 545 gypsum panel	567.4 (257.4)	5.91 (28.86)
Total	1,273.2 (577.5)	13.26 (64.76)

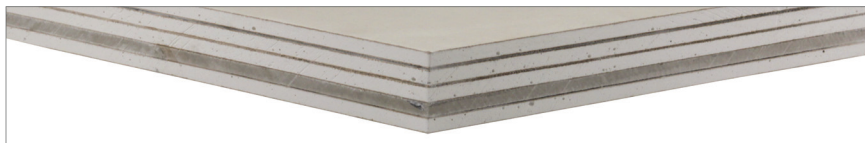
Test Methods

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

PGD-W-397-16							
<p>STC 56 NOAL 20-0409 - 16" o.c.</p> <p>Low Frequency Transmission Loss</p> <table> <tr> <th>Hz</th><th>TL</th></tr> <tr> <td>80</td><td>21</td></tr> <tr> <td>100</td><td>26</td></tr> </table>  <p>Fire: 1 Hour - UL U305</p> <p>Thickness: 6-1/8" Approx weight: 13.3 lb/ft²</p>	Hz	TL	80	21	100	26	<p> 2" Type S or W drywall screws 16" o.c. (for fire 2" screws spaced 8" in perimeter and 12" o.c in the field).</p> <p> One layer 1-3/8" QuietRock® 545 applied vertically or horizontally.</p> <p> 2 x 4 wood studs 16" o.c.</p> <p> 3-1/2", R-13 glass fiber insulation friction fit into stud cavity.</p> <p> One layer 1-3/8" QuietRock® 545 applied vertically or horizontally.</p> <p> 2" Type S or W drywall screws 16" o.c. (for fire 2" screws spaced 8" in perimeter and 12" o.c in the field).</p>
Hz	TL						
80	21						
100	26						
<p>Load Bearing Vertical joints staggered on opposite sides</p>							



QuietRock® 545

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