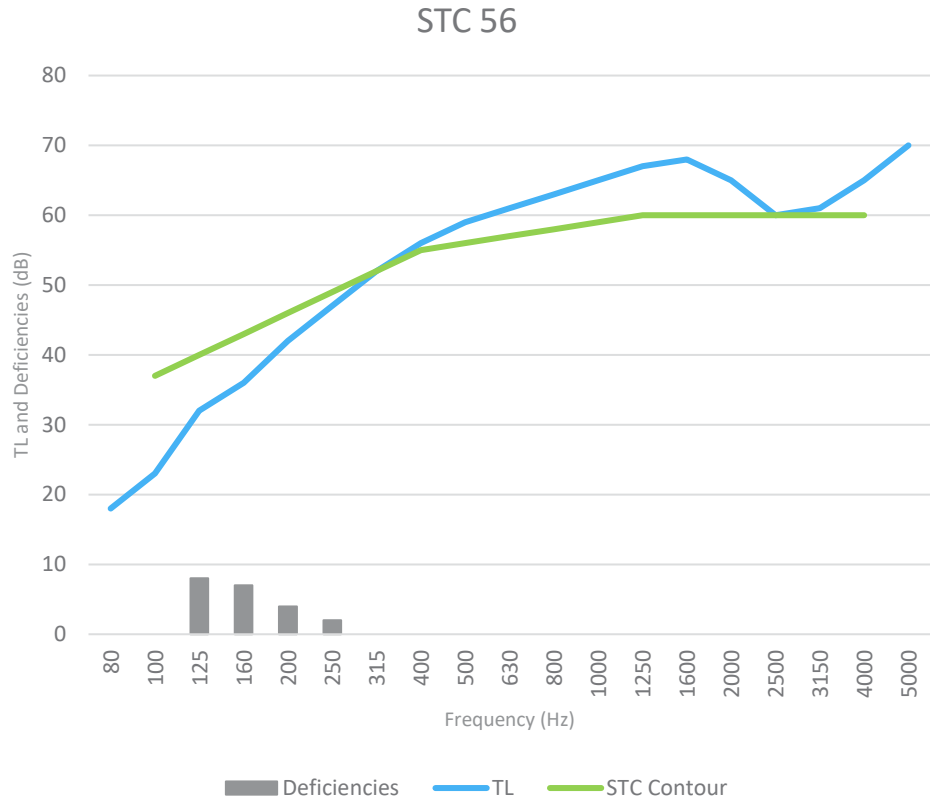


**Acoustic Data**

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0612
Assembly Type:	Wall	Test Date:	6/5/2018
Method:	ASTM E90-09	Report Date:	8/29/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	18	
100	23	
125	32	8
160	36	7
200	42	4
250	47	2
315	52	
400	56	
500	59	
630	61	
800	63	
1000	65	
1250	67	
1600	68	
2000	65	
2500	60	
3150	61	
4000	65	
5000	70	
<b>Total Deficiencies</b>		<b>21</b>



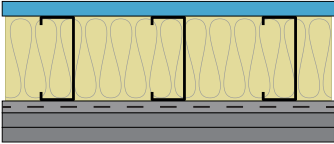










**Assembly Mass**

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
5/8" Flame Curb® Type X gypsum panel	198.8 (90.2)	2.07 (10.11)
5/8" Flame Curb® Type X gypsum panel	197.1 (89.4)	2.05 (10.02)
Resilient channels 24" oc	12.8 (5.8)	0.13 (0.65)
3-5/8" 68 mil (14 ga.) steel studs spaced 16" oc	172.4 (78.2)	1.80 (8.77)
3-1/2" glass fiber insulation	21.4 (9.7)	0.22 (1.09)
5/8" Flame Curb® Type X gypsum panel	254.6 (115.5)	2.65 (12.95)
<b>Total</b>	<b>857.10 (388.77)</b>	<b>8.93 (43.59)</b>

**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
<p data-bbox="212 359 396 386"><b>PGD-01-10-290</b></p> 	<ul style="list-style-type: none"> <li data-bbox="529 373 1084 428"> 1-1/4" Type S screws spaced 8" o.c. at edges and 12" o.c. in the field.</li> <li data-bbox="529 468 1084 522"> One Layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.</li> <li data-bbox="529 541 980 596"> 3-5/8" 68 mil (14 ga.) steel studs, 16" o.c.</li> <li data-bbox="529 636 993 690"> 3-1/2" glass fiber insulation in stud space.</li> <li data-bbox="529 751 1052 806"> Resilient channel applied at right-angle, 24" o.c.</li> <li data-bbox="529 846 1057 921"> 1/2" Type S screws attaching resilient channel to stud at each intersection.</li> <li data-bbox="529 961 1084 1037"> Base layer 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.</li> <li data-bbox="529 1077 1084 1131"> 1" Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field.</li> <li data-bbox="529 1171 1084 1247"> Face layer 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.</li> <li data-bbox="529 1287 964 1341"> 1-5/8" Type S drywall screws at 12" o.c.</li> </ul>	<p data-bbox="1166 831 1235 858"><b>STC 56</b></p> <p data-bbox="1133 867 1268 894">NOAL 18-0612</p>	<p data-bbox="1382 831 1451 858"><b>1 Hour</b></p> <p data-bbox="1377 867 1456 894">UL U425</p>
<p data-bbox="164 1373 444 1400">6" Thick, 9 lb/ft<sup>2</sup>, Load Bearing.</p>	<p data-bbox="521 1373 927 1400">Vertical joints staggered on opposite sides.</p>		