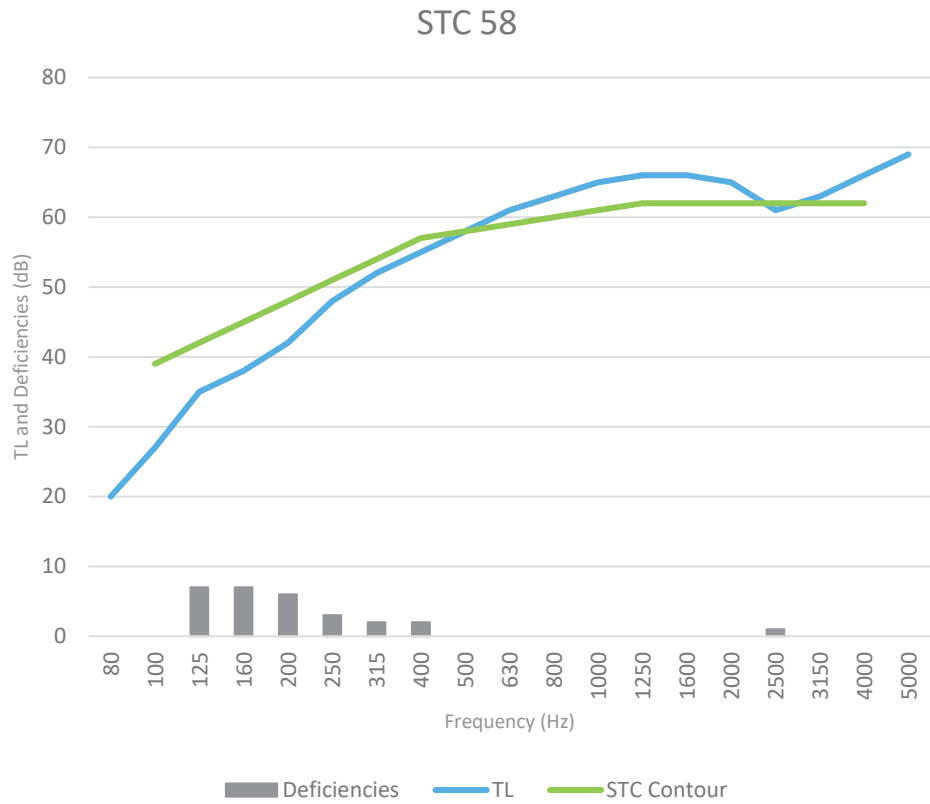


**Acoustic Data**

Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0841
Assembly Type:	Wall	Test Date:	8/20/2018
Method:	ASTM E90-09	Report Date:	10/26/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	20	
100	27	
125	35	7
160	38	7
200	42	6
250	48	3
315	52	2
400	55	2
500	58	
630	61	
800	63	
1000	65	
1250	66	
1600	66	
2000	65	
2500	61	1
3150	63	
4000	66	
5000	69	
<b>Total Deficiencies</b>		<b>28</b>



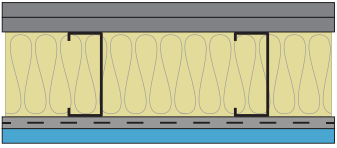










**Assembly Mass**

Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
5/8" QuietRock® ES Type X gypsum panel	255.0 (115.7)	2.66 (12.97)
Resilient Channels 24" oc	13.4 (6.1)	0.14 (0.68)
3-5/8" 33 mil (20 ga.) steel studs spaced 16" oc	90.0 (40.8)	0.94 (4.58)
3-1/2" glass fiber insulation	20.6 (9.3)	0.21 (1.05)
5/8" Flame Curb® Type X gypsum panel	203.8 (92.4)	2.12 (10.36)
5/8" Flame Curb® Type X gypsum panel	203.8 (92.4)	2.12 (10.36)
<b>Total</b>	<b>786.60 (356.80)</b>	<b>8.19 (40.01)</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><b>PGD-01-10-135</b></p> 	<ul style="list-style-type: none"> <li> 1-5/8" Type S screws spaced 8" o.c. at edges and 12" o.c. in the field.</li> <li> Face layer 5/8" type X (FLAME CURB®, WATER CURB®, MOLD CURB® Plus, ABUSE CURB®, PABCO® High Impact, PABCO® Glass Sheathing or PABCO® Gypsum Sheathing) gypsum panel applied vertically.</li> <li> 1" Type S screws spaced 8" o.c. at edges and 12" o.c. in the field.</li> <li> Base layer 5/8" type X (FLAME CURB®, WATER CURB®, MOLD CURB® Plus, ABUSE CURB®, PABCO® High Impact, PABCO® Glass Sheathing or PABCO® Gypsum Sheathing) gypsum panel applied vertically.</li> <li> 3-5/8" 33 mil (20 ga.) steel studs, 24" o.c.</li> <li> 3-1/2" glass fiber insulation in stud space.</li> <li> Resilient channel applied at right-angle, 24" o.c.</li> <li> 1/2" Type S screws attaching resilient channel to stud at each intersection.</li> <li> One Layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.</li> <li> 1" Type S screws spaced 12" o.c. in the field.</li> </ul>	<p style="text-align: center;"><b>STC 58</b> NOAL 18-0841</p>	<p style="text-align: center;"><b>1 Hour</b> UL U425</p>
<p>6" Thick, 8.2 lb/ft<sup>2</sup>, Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		