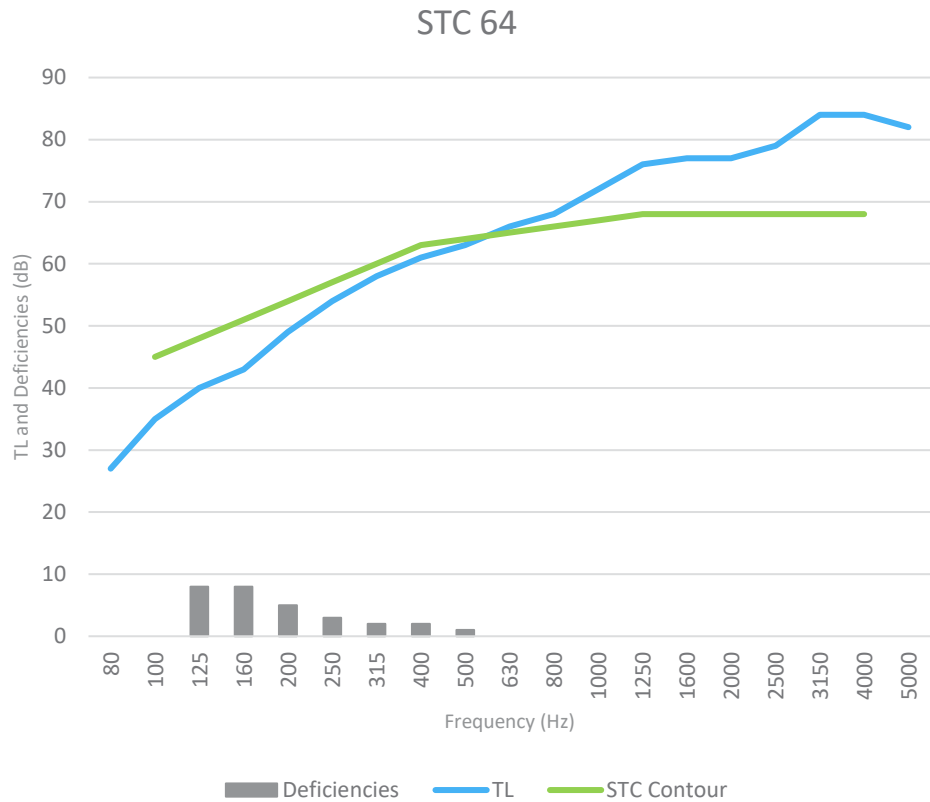


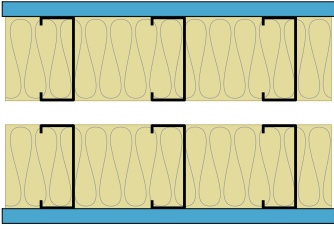









Acoustic Data			
Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-1004
Assembly Type:	Wall	Test Date:	10/1/2018
Method:	ASTM E90-09	Report Date:	12/16/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	27	
100	35	
125	40	8
160	43	8
200	49	5
250	54	3
315	58	2
400	61	2
500	63	1
630	66	
800	68	
1000	72	
1250	76	
1600	77	
2000	77	
2500	79	
3150	84	
4000	84	
5000	82	
<b>Total Deficiencies</b>		<b>29</b>



Assembly Mass		
Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
5/8" QuietRock® ES Type X gypsum panel	258.2 (117.1)	2.69 (13.13)
Double row 3-5/8" 33 mil (20 ga.) steel studs spaced 16" oc	173.6 (78.7)	1.81 (8.83)
2 layers 3-1/2" glass fiber insulation	40.8 (18.5)	0.43 (2.08)
5/8" QuietRock® ES Type X gypsum panel	256.3 (116.3)	2.67 (13.04)
<b>Total</b>	<b>728.9 (330.6)</b>	<b>7.60 (37.08)</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-01-10-142</b></p> 	<ul style="list-style-type: none"> <li> 1-1/4" Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field.</li> <li> One Layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.</li> <li> 3-1/2" glass fiber insulation in stud space.</li> <li> 3-5/8" 33 mil (20 ga.) steel studs, 16" o.c.</li> <li> 1" air gap.</li> <li> 3-5/8" 33 mil (20 ga.) steel studs, 16" o.c.</li> <li> 3-1/2" glass fiber insulation in stud space.</li> <li> One Layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.</li> <li> 1-1/4" Type S drywall screws spaced 8" o.c. at edges and 12" o.c. in the field.</li> </ul>	<p><b>STC 64</b> NOAL 18-1004</p>	<p><b>1 Hour</b> UL V464</p>
<p>9-1/2" Thick, 7.6 lb/ft<sup>2</sup>, Non-Load Bearing.</p>	<p>Vertical joints staggered 16" on opposite sides.</p>		