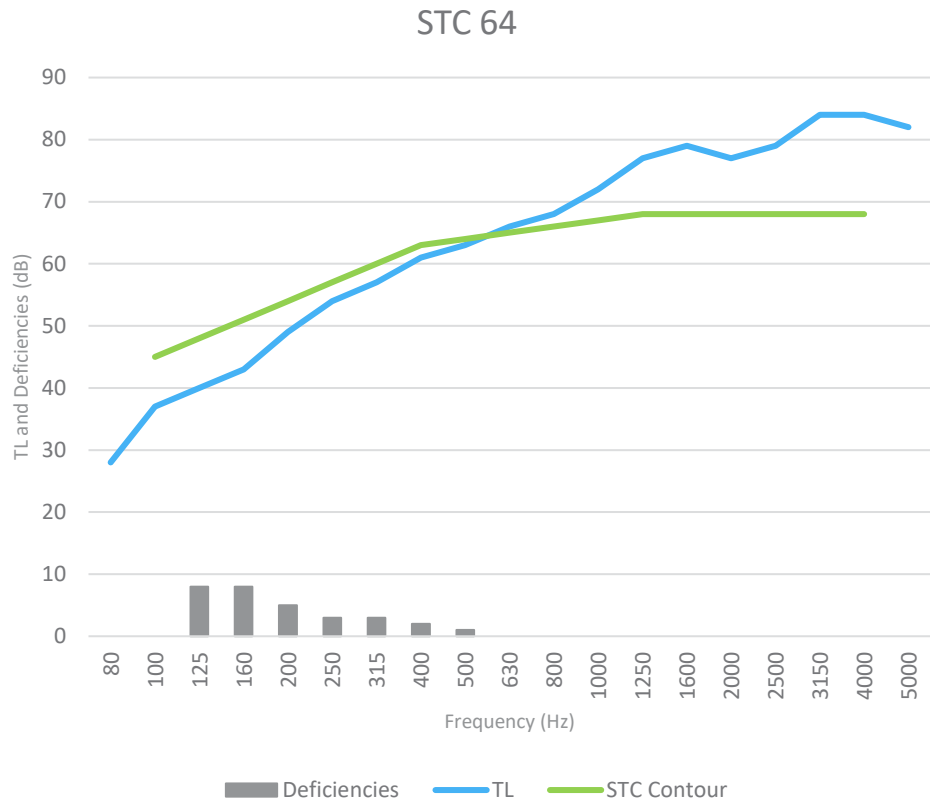


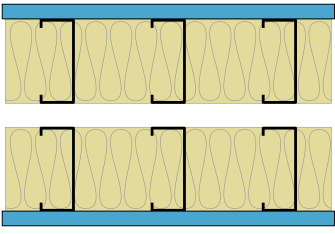









Acoustic Data			
Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0920
Assembly Type:	Wall	Test Date:	9/14/2018
Method:	ASTM E90-09	Report Date:	10/20/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	28	
100	37	
125	40	8
160	43	8
200	49	5
250	54	3
315	57	3
400	61	2
500	63	1
630	66	
800	68	
1000	72	
1250	77	
1600	79	
2000	77	
2500	79	
3150	84	
4000	84	
5000	82	
<b>Total Deficiencies</b>		<b>30</b>



Assembly Mass		
Building Element	Mass lb (kg)	Surface Weight PSF (kg/m <sup>2</sup> )
5/8" QuietRock ES®	258.1 (117.1)	2.69 (13.13)
Double row 3-5/8" 54 mil (16 ga.) steel studs spaced 16" oc	284.8 (129.2)	2.97 (14.48)
2 Layers 3-1/2" glass fiber insulation	40.8 (18.5)	0.43 (2.08)
5/8" QuietRock ES®	256.4 (116.3)	2.67 (13.04)
<b>Total</b>	<b>840.1 (381.1)</b>	<b>8.76 (42.73)</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="212 363 394 388"><b>PGD-01-20-042</b></p> 	<ul style="list-style-type: none"> <li data-bbox="529 363 1084 422"> 1-1/4" Type S-12 drywall screws spaced 8" o.c. at edges and 12" o.c. in the field.</li> <li data-bbox="529 470 1084 529"> One Layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.</li> <li data-bbox="529 569 1084 627"> 3-1/2" glass fiber insulation in stud space.</li> <li data-bbox="529 667 1084 726"> 3-5/8" 54 mil (16 ga.) steel studs, 16" o.c.</li> <li data-bbox="529 766 1084 825"> 1" air gap.</li> <li data-bbox="529 865 1084 924"> 3-5/8" 54 mil (16 ga.) steel studs, 16" o.c.</li> <li data-bbox="529 963 1084 1022"> 3-1/2" glass fiber insulation in stud space.</li> <li data-bbox="529 1062 1084 1121"> One Layer 5/8" QuietRock® ES or QuietRock® ES MR type X gypsum panel applied vertically.</li> <li data-bbox="529 1161 1084 1220"> 1-1/4" Type S-12 drywall screws spaced 8" o.c. at edges and 12" o.c. in the field.</li> </ul>	<p data-bbox="1166 772 1237 798"><b>STC 64</b></p> <p data-bbox="1133 806 1269 831">NOAL 18-0920</p>	<p data-bbox="1383 772 1455 798"><b>1 Hour</b></p> <p data-bbox="1377 806 1458 831">UL V464</p>
<p data-bbox="110 1260 496 1285">9-1/2" Thick, 8.8 lb/ft<sup>2</sup>, Non-Load Bearing.</p>	<p data-bbox="529 1260 922 1285">Vertical joints staggered on opposite sides.</p>		