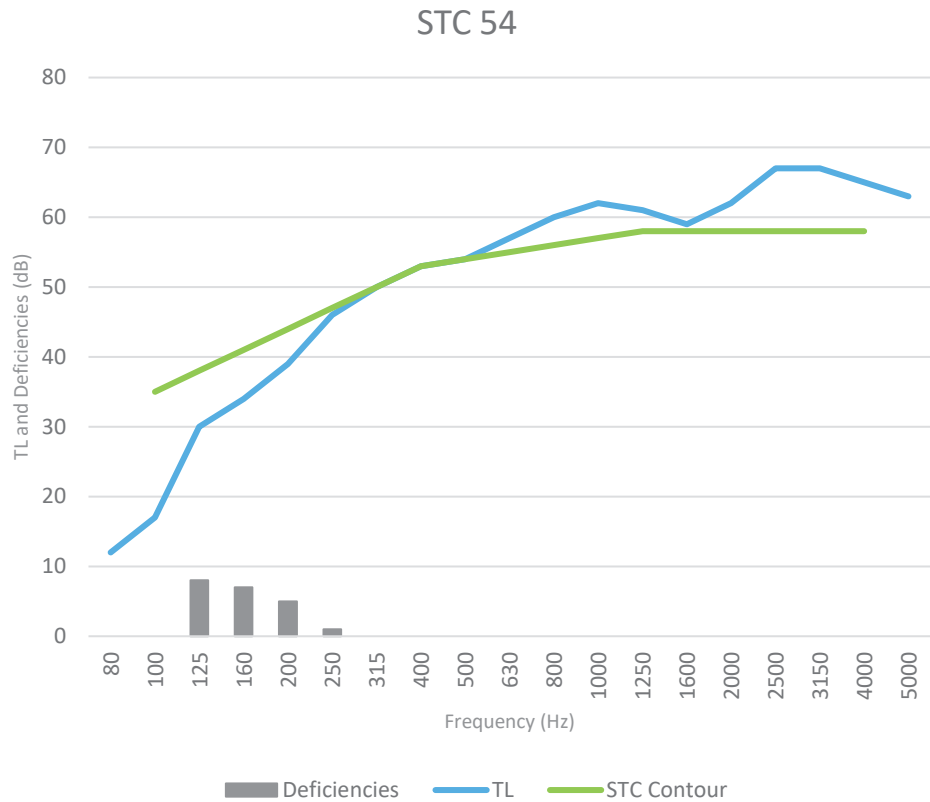


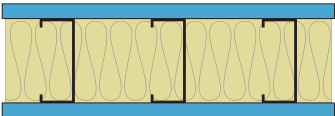






Acoustic Data			
Test Site:	North Orbit Acoustic Laboratories P.O. Box 6948 Minneapolis, MN 55406-0948	Test Number:	NOAL 18-0902
Assembly Type:	Wall	Test Date:	9/10/2018
Method:	ASTM E90-09	Report Date:	10/20/2018

Frequency (Hz)	TL (dB)	Deficiencies (dB)
80	12	
100	17	
125	30	8
160	34	7
200	39	5
250	46	1
315	50	
400	53	
500	54	
630	57	
800	60	
1000	62	
1250	61	
1600	59	
2000	62	
2500	67	
3150	67	
4000	65	
5000	63	
Total Deficiencies		21



Assembly Mass		
Building Element	Mass lb (kg)	Surface Weight PSF (kg/m ²)
5/8" QuietRock® 530 Type X gypsum panel	265.4 (120.4)	2.76 (13.50)
3-5/8" 33 mil (20 ga.) steel studs spaced 16" OC	93.6 (42.5)	0.98 (4.76)
3.5" glass fiber insulation	20.0 (9.1)	0.21 (1.02)
5/8" QuietRock® 530 Type X gypsum panel	264.0 (119.7)	2.75 (13.43)
Total	643.00 (291.66)	6.70 (32.70)

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>PGD-01-10-225</p> 	<ul style="list-style-type: none">  1" Type S drywall screws spaced 8" at edges and 12" in the field.  One Layer 5/8" QuietRock® 530 or QuietRock® 530 RF type X gypsum panel applied vertically.  3-5/8" 33 mil (20 ga.) steel studs, 16" o.c.  3-1/2" glass fiber insulation in stud space.  One Layer 5/8" QuietRock® 530 or QuietRock® 530 RF type X gypsum panel applied vertically.  1" Type S drywall screws spaced 8" at edges and 12" in the field. 	<p>STC 54 NOAL 18-0902</p>	<p>1 Hour UL U425</p>
<p>4-7/8" Thick, 6.3 lb/ft², Load Bearing.</p>	<p>Vertical joints staggered on opposite sides.</p>		