

# CLIENT: Litecon Corporation 18911 Hardy Oak Boulevard No. 190 San Antonio, Texas 78258

Project No: MED-2061a		Report Date: April 24, 2024	
SAMPLE ID:	Series: Litecon 2-inch Cladding with and R13 Fiberglass Insulation		
SAMPLE DESCRIPTION:	8'-0" (96") x 8'-0" (96") high; See page 3 for full description.		
SAMPLING DETAIL:	The test sample manufactured by Litecon Corporation were sampled by QAI staff Idalmis Orte on December 21, 2023.		
DATE OF RECEIPT:	Samples were received at the QAI Miami Laboratory on January 6, 2024.		
TESTING PERIOD:	April 11, 2024.		
TESTING LOCATION:	QAI Laboratory (QAI) – Mia	ami, Florida, USA	
AUTHORIZATION:	QAI proposal number 24MB02082 dated February 8, 2024, signed by Leonel Borja Quality Manager, staff of Aircrete Corporation, dated March 4, 2024.		
TEST PROCEDURE:	Testing to the following req	uirements:	
	<ul> <li>Airborne Sound Transm</li> <li>ASTM E2235-04Standa Insulation Test Methods</li> <li>ASTM E413-22 Classifi</li> </ul>	ved 2016) Standard Test Method for Laboratory Measurement of hission Loss of Building Partitions and Elements ard Test Method for Determination of Decay Rates for Use in Sou s cation for Rating Sound Insulation ard Classification for Rating Outdoor-Indoor Sound Attenuation	
TEST RESULTS:		g with R13 Fiberglass Insulation achieved an STC 49 and OITC 4 with the ASTM E90, ASTM E2235, ASTM E413, and ASTM E13	
CONTENTS:	Test report pages 1 through	n 4.	
<b>Prepared By</b> Qusinda Delgado	Sig	ned for and on behalf of QAI Laboratory	
<b>Lusinda Delgado</b> Technical Report Writer			
		e Sanchez	
	One	aration Manager	

**Operation Manager** 

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Technician: Jose Sanchez

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DESCRIPTION OF SAMPLE			
Model Designation:	Series: Litecon 2-inch Panel with R13 Fiberglass Insulation		
Overall Size:	8'-0" (96") x 8'-0" (96") high		
Size of Panel:	2'-0" (24") x 2'-0" (24") high x 4'-0" (48") long x 0'-2" thick		
Weight of Sample:	5.12lbf/ft2		
Sample: A-1			

### Wall Construction

The Litecon cladding panels were installed vertically and were stacked side by side. The horizontal and vertical seams were sealed with a \*\*Litecon Adhesive Mortar. 2" x 4" wood studs spaced 16" inches in the center were installed on the exterior of the wall. The cladding panels were fastened to the studs using a single row of No. 8 x 3 1/2" FH sharp point type screw 6" on center. The cavity of the wall consisted of 3 1/2" inches of R13 fiberglass insulation between the studs. A 5/8" thick Type X drywall was installed on exterior wall.

Equipment				
Instrument	Manufacture	Model	Description	
Pressure microphone	Norsonic	1230	Microphone	
Oscillating microphone boom	Norsonic	N265	Rotating microphone	
Loudspeaker	JBL	SR4733X	Speaker	
Amplifier system	QSC	RMX1850-HD	Amplifier	
Dual band equalizer	DBX	DBX-1231	Equalizer	

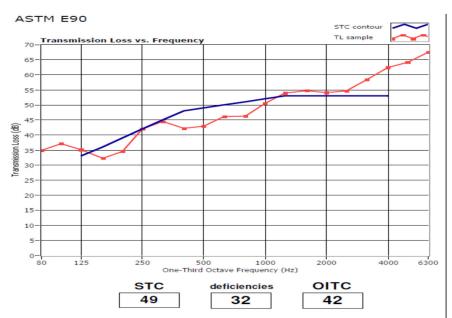
Test Chamber Dimensions			
Receiving Room	7875 ft <sup>3</sup>		
Source Room	6840 ft <sup>3</sup>		

R.H: 34%

Room Conditions: 24.3°C

#### ATM: 1017hPa

1,00111	Contaition	10. 24.0 0	IX.III. 04
Data	TL	deficiencies	95%
Table	(db)		CI
80	35	-	1.87
100	37	-	2.24
125	35	0	0.98
160	32	4	1.62
200	35	4	0.89
250	42	0	0.81
315	44	1	0.86
400	42	6	0.39
500	43	6	0.56
630	46	4	0.41
800	46	5	0.45
1000	50	2	0.31
1250	54	0	0.24
1600	55	0	0.30
2000	54	0	0.26
2500	55	0	0.32
3150	58	0	0.19
4000	62	0	0.31



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Notes



# \* Designates measurements by laboratory

\*\* as per manufacturer

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# **Test Procedure**

Samples were installed in a 96" by 96" wall opening and were approximately 1/4" from flush with the receive room side of the wall. A filler panel was installed in the wall opening and a sound transmission loss test was initially performed on the wall. Duct seal was used to seal the interior and exterior of the test samples to the wall opening.

The sensitivity of the microphones was checked with a calibrator before testing was performed.

The sound transmission loss values were obtained for a single direction.

Five measurements were conducted for the sound pressure level, background noise and sound absorption. Measurements were collected at each rotating microphone.

Data for flanking limit tests, repeatability measurements and reference specimen tests are available on request.

**REVISION HISTORY:** 4/24/2024: Initial report release

\*\*\*\*\*\*\*END REPORT\*\*\*\*\*\*

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