

CLIENT: Litecon Corporation

Calle 3, Numero 7 Parque Industrial Platah, Villa de **Tezontepec Hidalgo CP43880**

Project No: MED-1241c Report Date: April 3, 2024

SAMPLE ID: Series: Litecon Firewall 2" Panel

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 QA staff Idalmis Ortega

on December 21, 2023.

DATE OF RECEIPT: Samples were received at the QAI Miami Laboratory on February 6, 2024.

TESTING PERIOD: March 7, 2024.

TESTING LOCATION: QAI Laboratory (QAI) - Miami, Florida, USA

AUTHORIZATION: QAI proposal number 23MB10192R2 dated October 19, 2023, signed by Leonel Borja

Quality Manager, staff of Aircrete Mexico dated November 21, 2023.

TEST PROCEDURE: Testing to the following requirements:

ASTM E90 -09 (reapproved 2016) Standard Test Method for Laboratory Measurement of

Airborne Sound Transmission Loss of Building Partitions and Elements

ASTM E2235-04Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods

ASTM E413-22 Classification for Rating Sound Insulation

ASTM E1332-16 Standard Classification for Rating Outdoor-Indoor Sound Attenuation

TEST RESULTS: The Litecon 2-inch Firewall panel achieved an STC 30 and OITC 28 when tested in

accordance with the ASTM E90, ASTM E2235, ASTM E413, and ASTM E1332.

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Prepared By Signed for and on behalf of QAI Laboratory

Lusinda Delgado , Jose Sanchez Lusinda Delgado Jose Sanchez **Technical Report Writer** Operation Manager

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Technician: Jose Sanchez

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DESCRIPTION OF SAMPLE				
Model Designation:	Series: Litecon Firewall 2" Panel			
Overall Size:	8'-0" (96") x 8'-0" (96") high			
Size of Panel:	6'-8" (80") x 2'-0" (24") high x 0'-2" (2") thick			
Weight of Sample:	5.12lbf/ft2			
Sample: C-1				

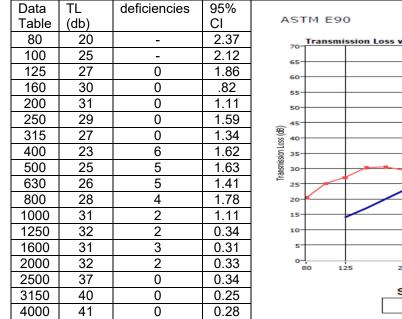
Wall Construction

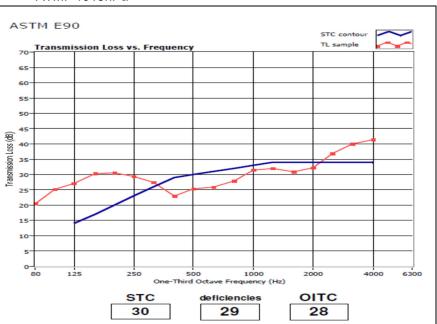
The Litecon fire panels were installed vertically and were stacked and staggered. The horizontal and vertical seams were sealed with an **Litecon Adhesive Mortar.

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 ft³			
Source Room	6840 ft ³			

Room Conditions: 25.7°C R.H: 40% ATM: 1013hPa





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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:

4/3/2024: Initial report release

4/10/2024: Corrected name of adhesive mortar used under wall construction.

******END REPORT******

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