



PRI Construction Materials Technologies LLC

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Laboratory Test Report

Report for: Leonel Aarón Borja Alemán
Aircrete Mexico
Calle 3, Número 7 Parque, Industrial PLATAH
Villa of Tezontepec Hidalgo, 43880

Product Name: Aircrete Cladding 2"

Project No.: 2351T0002

Dates Tested: March 31st – April 6th, 2021

Test Methods: ASTM E96 / E96M-16

Results Summary: Procedure A – Desiccant Method @ 73.4±1.8°F & 50±2 % RH
WVT 2.70 grains/h·ft²
Permeance 6.58 US Perms

Purpose: Determine the water vapor transmission performance of the product in accordance with **ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials.**

Test Methods: Testing was completed as described in ASTM E96 / E96M-16 *Standard Test Methods for Water Vapor Transmission of Materials*. Procedure A, Desiccant Method, was conducted at 73.4±1.8°F and 50±2% RH.

Sampling: The following materials were received by PRI via common carrier.

<u>Product</u>	<u>Source</u>	<u>Date</u>	<u>Sampling</u>
Aircrete Cladding 2	Villa of Tezontepec Hidalgo, Mexico	Jan. 18 th , 2020	Aircrete Mexico

Sample Description: Manufacturing Date: November 11th, 2020
Age: 140 days
Finishing Type: Without Finishing
Curing: Autoclave Process
Mixing: General Mixture contained in Appendix A

Testing Location: Testing was conducted at PRI-CMT located in Tampa, FL. Calibration of testing instrumentation was performed by either an ISO accredited calibration laboratory or by a PRI-CMT representative in compliance with PRI-CMT In-House quality control program governed by ISO/IEC 17025-17.

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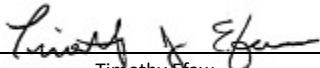
Results:

Property	Test Method	Results							Requirement
		#1	#2	#3	#4	#5	Avg	St Dev	
Aircrete Cladding 2" Desiccant Method; Test @ 73.4±1.8°F & 50±2 % RH	ASTM E96 (Procedure A)								
	Thickness (in)	1.93	1.90	1.90	1.94	1.94	1.92	0.02	Report
	WVT (grains/h-ft ²)	2.64	2.66	2.71	2.48	2.99	2.70	0.19	Report
	Permeance (US Perms)	6.43	6.49	6.62	6.05	7.29	6.58	0.45	Report

Notes: 1 – (None)

Statement of Attestation: The water vapor transmission of the material was determined in accordance with ASTM E96 *Standard Test Methods for Water Vapor Transmission of Materials* as described herein. Procedure A was utilized. The laboratory test results presented in this report are representative of the material supplied.

Signed:



 Timothy Efav
 Manager

Date:

_____ April 6th, 2021 _____

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	04/06/2021	3	NA

Appendix Follows...

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General Mixture – (Provided by Client)

Mixture parameters	
Density of design (490 kg/m ³)	kg/m ³
Cement	108
Lime (available CaO ~87 scada)	81.4
Gypsum	25.3
Additive (lt)	0.46
Fresh mud (.= 1,7kg/m ³)	371
Silica sand on fresh sludge	244.8
Return sludge (20,3%) (.= 1,4kg/m ³) dry	124.4
Total water	379.7
Aluminum 19F 75% / 7004 25%	0.3
Soap	0.07

END OF REPORT

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