



PRI Construction Materials Technologies LLC

6412 Badger Drive
Tampa, FL 33610
813.621.5777
<https://www.pri-group.com/>

Laboratory Test Report

Report for: Litecon Corp.
18911 Hardy Oak Boulevard No. 190
San Antonio, TX 78258

Product Name(s): Aircrete (AAC)

Project No.: 2351T0015

Date(s) Tested: March 5th – 22nd, 2024

Test Methods: ASTM C1693

Results Summary: Compliant: AAC-6 Classification

Purpose: Evaluate the compressive strength, dry bulk density, and compression modulus of elasticity of Litecon Corp., autoclaved aerated concrete per the methods described in ASTM C1693 Standard Specification for Autoclaved Aerated Concrete (AAC).

Test Methods: Testing was conducted in accordance with ASTM C1693-11(2017) Standard Specification for Autoclaved Aerated Concrete (AAC). Test methods assigned or referenced include ASTM E4 Standard Practices for Force Calibration and Verification of Testing Machines.

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

Product	Source	Date Received	Sampling
Aircrete (AAC)	Villa of Tezontepec Hidalgo, Mexico	March 1 st , 2024	Litecon Corp.

Sample Description: Manufacturing Date: 05/09/2023 Lot: 23-09E4
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. Verification 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.

2351T0015

The laboratory test results presented in this report are based on the material(s) supplied and tested. The results, and by extension any statements of conformity, opinions, or interpretations, apply the "simple acceptance" decision rule for measurement uncertainty accounting. This report is for the exclusive use of stated client. Only the client is authorized to permit copying or distribution of this report and then only in its entirety. PRI Construction Materials Technologies LLC assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.

Test Results: Conditions at beginning of testing 22°C (73°F) with 50% Rh.

Table 1: ASTM C1693

Physical Properties	Test Method	Results					Requirement ¹	
Compressive Strength 3 Samples 4"x4"x4"; Test @ 73.4±3.6°F & 50±5%RH;	ASTM C1693 Sec. 6	1	2	3	Avg.	St. Dev.		
		Length (in)	3.910	3.886	3.980	3.925	0.05	Report
		Width (in)	3.890	3.913	3.898	3.900	0.01	Report
		Maximum Load (lb _f)	15925	12523	14111	14187	1702	Report
		Compressive Strength (psi)	1050	820	910	930	110	> 870
Dry Bulk Density (lb/ft ³) 3 Samples Condition 48hrs @ 100C; Test @ 73.4±3.6°F & 50±5%RH	ASTM C1693 Sec. 7	1	2	3	Avg.	St. Dev.		
		Length (in)	6.932	6.932	6.954	6.939	0.01	Report
		Width (in)	1.442	1.494	1.513	1.483	0.03	Report
		Depth (in)	1.493	1.454	1.478	1.475	0.02	Report
		Initial Mass (lb)	0.354	0.367	0.386	0.369	0.01	Report
		Dry Mass (lb)	0.335	0.341	0.356	0.344	0.01	Report
		Moisture Content (%)	5.5	7.6	8.6	7.2	1.6	Report
		Dry Bulk Density (lb/ft ³)	38.8	39.2	39.6	39.2	0.4	37 - 44
Compressive Modulus of Elasticity 3 Samples 4"x4"x8"; Test @ 73.4±3.6°F & 50±5%RH;	ASTM C1693 Sec. 8	1	2	3	Avg.	St. Dev.		
		Length (in)	3.900	3.910	3.891	3.999	0.01	Report
		Width (in)	3.900	3.894	3.893	3.894	<0.01	Report
		Depth (in)	7.834	7.863	7.838	7.845	0.01	Report
		Mass (lb)	3.02	2.94	3.02	2.99	0.4	Report
		E _c - Modulus of Elasticity (psi)	236,668	203,836	266,127	235,544	25,443	Report

Notes: 1: Samples met requirements for an AAC-6 Strength Class.

CONTINUED ON THE NEXT PAGE...

2351T0015

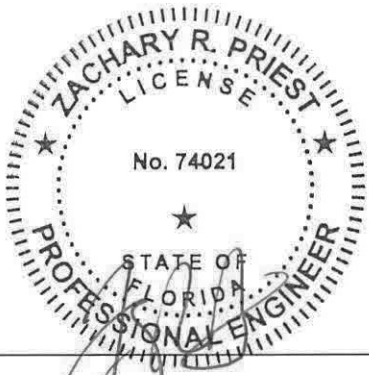
The laboratory test results presented in this report are based on the material(s) supplied and tested. The results, and by extension any statements of conformity, opinions, or interpretations, apply the "simple acceptance" decision rule for measurement uncertainty accounting. This report is for the exclusive use of stated client. Only the client is authorized to permit copying or distribution of this report and then only in its entirety. PRI Construction Materials Technologies LLC assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.

Statement of Attestation:

The material was evaluated in accordance with ASTM C1693-11(2017) Standard Specification for Autoclaved Aerated Concrete (AAC). The laboratory test results presented in this report are representative of the material supplied.

Signed: 
Timothy Efaw
Manager

Date: 03/28/2024

Signed: 
Zachary Priest
PE Director

Date: 04/01/2024

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	03/28/2024	4	NA

APPENDIX FOLLOWS...

2351T0015

The laboratory test results presented in this report are based on the material(s) supplied and tested. The results, and by extension any statements of conformity, opinions, or interpretations, apply the "simple acceptance" decision rule for measurement uncertainty accounting. This report is for the exclusive use of stated client. Only the client is authorized to permit copying or distribution of this report and then only in its entirety. PRI Construction Materials Technologies LLC assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.