

CONCRETE MASONRY UNIT REPORT

Report Number: 95141039.0005
Service Date: 01/12/15
Report Date: 01/16/15 Revision 1 -

Terracon

2501 East Loop 820 North
Fort Worth, TX 76118
817-268-8600 Reg No: F-3272

Client

Bilco Brick
Attn: Randy Colen
2116 N Lancaster-Hutchins Rd
Dallas, TX 75134

Project

Various Testing
Plant Samples
Dallas, TX

Project Number: 95141039

Services: Perform compressive strength, absorption and fire rating in accordance with ASTM 140, for compliance to ASTM C90, NCMA TEK and IBC specifications on concrete masonry units submitted to this facility.

Sample ID: Lightweight weight 8" X 8" X 16" CMU (as identified by weight)

Absorption:

Specimen	Received Weight (lbs)	Immersed Weight (lbs)	SSD Weight (lbs)	Percent Absorption	Absorption (lbs./cu ft.)	Oven Dry Weight (lbs)	Oven Dry Wt. (lbs./cu. ft.)
1	27.45	13.26	30.20	13.53	13.26	26.60	97.98
2	27.35	13.12	30.05	13.18	12.85	26.55	97.86
Average	27.40	13.19	30.13	13.36	13.06	26.58	97.92

Compressive Strength:

Specimen	Gross Area (in. ²)	Net Area (in. ²)	Maximum Load (lbs.)	Gross PSI	Net PSI
4	118.94	61.27	119,350	1,000	1950
5	119.72	60.76	128,170	1,070	2110
Average	119.33	61.02	123,760	1,040	2030

Average Length: 15.68 in.
Average Width: 7.63 in.
Average Depth: 7.65 in.

Face Shell Thickness: 1.44 in.
Webb Thickness: 1.40 in.
Equivalent thickness: 3.91 in.
Equivalent Webb Thickness: 2.77 in.

ASTM C90 specifications:

Absorption (lb./cu. ft.)	20 pcf individual Maximum
Oven Dry Weight (lbs./cu. ft.)	Less than 105
Net PSI	1700 individual Minimum
Face Shell (inches)	1.25 Minimum
Web thickness (inches)	1.00 Minimum
Equivalent Web Thickness (in./linear ft.)	2.25 Minimum

The above block comply with ASTM C90 specifications for light weight block.

The above block comply with NCMA TEK 7-C and IBC (2012) fire resistance rating for up to 2.5 hours.

Services:

Terracon Rep.: Green, Anthony

Reported To:

Contractor:

Report Distribution:

(1) Bilco Brick, rcolen@bilcobrick.com

Reviewed By:



Eric J. Cleveland, P.E.

Principal

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.