

CMU MASONRY UNITS REPORT

Report Number: 95141039.0001
Service Date: 03/18/14
Report Date: 03/26/14

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: Medium 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	30.45	15.31	32.80	11.19	11.77	29.50	105.25
2	30.20	15.22	32.60	11.07	11.67	29.35	105.38
3	30.00	15.10	32.40	11.15	11.72	29.15	105.14
Average	30.22	15.21	32.60	11.14	11.72	29.34	105.26

Compressive Strength:

Specimen	Gross Area (in. ²)	Net Area (in. ²)	Maximum Load (lbs.)	Gross PSI	Net PSI
4	119.43	62.39	130,230	1,090	2,090
5	120.61	62.20	128,000	1,061	2,060
6	119.50	61.76	124,460	1,040	2,020
Average	119.85	62.11	127,560	1,060	2,060

Average Length:	15.65 in.	Face Shell Thickness:	1.37 in.
Average Width:	7.66 in.	Webb Thickness:	1.28 in.
Average Depth:	7.75 in.	Equivalent thickness:	3.97 in.
		Equivalent Webb Thickness:	2.91 in.

ASTM C90 specifications:

Absorption (lb./cu. ft.)	17 pcf individual/ 15 pcf average Maximum
Oven Dry Weight (lbs./cu. ft.)	105 lbs. to less than 125 lbs.
Net PSI	1700 individual/1900 average Minimum

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

The above block comply with NCMA TEK 7-C and IBC (2012) fire resistance rating for up to 2.25 hours.

Services:

Terracon Rep.: Taylor, Frankie

Reported To:

Contractor:

Report Distribution:

(1) Bilco Brick, rcolen@bilcobrick.com

Reviewed By:



Eric J. Cleveland, P.E.

Senior Associate

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.