

CONCRETE MASONRY UNITS REPORT

Report Number: 95171280.0002
Service Date: 03/05/18
Report Date: 03/14/18

Terracon

2501 E Loop 820 N
Fort Worth, TX 76118-6978
817-268-8600 Reg No: F-3272

Client

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

Project

Bilco Brick Testing
2501 East Loop 820 North
Fort Worth, TX

Project Number: 95171280

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: Normal 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	34.88	20.26	37.24	8.48	10.69	34.33	126.16
2	34.73	20.11	37.11	8.64	10.83	34.16	125.39
3	34.71	20.07	37.08	8.71	10.90	34.11	125.13
Average	34.77	15.21	32.60	8.61	10.81	34.20	125.56

Compressive Strength:

Specimen	Gross Area (in. ²)	Net Area (in. ²)	Maximum Load (lbs.)	Gross PSI	Net PSI
4	119.03	61.68	147270	1240	2390
5	119.10	61.91	142560	1200	2300
6	118.79	61.95	152910	1290	2470
Average	119.85	62.11	147580	1240	2390

Average Length: 15.62 in. Face Shell Thickness: 1.36 in.
Average Width: 7.63 in. Webb Thickness: 1.25 in.
Average Depth: 7.62 in. Equivalent thickness: 3.96 in.
Normalized Web Area: 10.64 sq. in./sq. ft.

ASTM C90 specifications:

Absorption (lb./cu. ft.) 15 pcf individual/ 13 pcf average Maximum
Oven Dry Weight (lbs./cu. ft.) 125 or more
Net PSI 1800 individual/2000 average Minimum
Face Shell (inches) 1.25 Minimum
Web Thickness (inches) 0.75 Minimum
Normalized Web Area (sq. in./sq. ft.) 6.5 Minimum

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

The above block comply with NCMA TEK 7-C and IBC (2012) fire resistance rating for up to 2.0 hours.

Services:

Terracon Rep.:

Reported To:

Contractor:

Report Distribution:

(1) Bilco Brick, Randy Colen

Reviewed By: _____

John, Tupa

Senior Project Manager

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.