

COMPRESSIVE STRENGTH AND ABSORPTION REPORT



Report Number: 95171280.0003
Service Date: 06/12/18
Report Date: 07/03/18

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 and absorption tests in accordance with ASTM C216 and C1634 specifications on concrete brick submitted to this facility.

Density Classification: Medium Weight (105-125 lbs/ft³ oven dry weight, average of five brick)

Compressive Strength:

<u>Specimen</u>	<u>Compressive Strength, PSI</u>	<u>ASTM C-1634 Grade M</u>	<u>ASTM C216 Grade SW</u>
1	5160	3500 PSI	3000 PSI
2	4980	Ave. of three brick	Ave. of 5 brick
3	5260		
4	4670	3000 PSI	2500 PSI
5	5540	Individual Unit	Individual Unit
Average	5120		

Absorption:

<u>Specimen</u>	<u>Absorption (%) 24-Hour Cold</u>	<u>Absorption (lb/ft³) 24-Hour Cold</u>	<u>Absorption (%) 5- Hour Boil</u>	<u>Saturation Coefficient</u>
1	4.1	5.3	7.2	0.57
2	4.1	5.3	6.6	0.62
3	4.5	5.6	8.2	0.55
4	4.3	5.5	7.7	0.56
5	<u>4.1</u>	<u>5.3</u>	<u>6.9</u>	<u>0.59</u>
Average	4.2	5.4	7.3	0.58

ASTM C216: Grade SW: Maximum Water Absorption (%) by 5-hour boil is 17.0, average of 5 brick and 20.0 for individual units.

ASTM C216: Grade SW: Maximum Saturation Coefficient is 0.78, average of 5 brick and 0.80 for individual units. Section 6.0, par. 6.1.2: Absorption alternate: Saturation coefficient does not apply provided the 24-hour cold water absorption does not exceed 8.0% for individual units.

ASTM C1634: Grade M: Maximum Water Absorption (lb/cu.ft) by 24-hour cold water is 13.0 for average of 3 brick and 15.0 for individual units.

Services:

Terracon Rep.:

Reported To:

Contractor: Bilco Brick

Report Distribution:

(1) Bilco Brick, Randy Colen

Reviewed By:

Kregg Albritton

Laboratory 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.