



TEST REPORT

100 Clemson Research Blvd. Anderson, SC 29625 (864) 656-1094 Fax: (864) 656-1095 www.brickandtile.org

Results of Tests on Specimens conducted in accordance with PCI Specification for Thin Brick using methods outlined in ASTM C67/C67M, ASTM C650, ASTM C666/C666M

05/20/2020

Name: King Klinker

501 Eagle Court

Onalaska, WI 54650

Phone: 608-406-9723 Plant:

King Klinker 8914-20944 Report Number: 6/18/2019 Received Date:

Sampled Date: 6/18/2019

*Temperature: 60 - 90F

*Humidity: 30% - 70%

Red Clay Body - Embedded in Precast Concrete Panels Description:

Test Method

The following is an overview of the method used to test the specimens received from King Klinker.

- 1) PCI Panels were inspected for damage upon arrival at BML.
- 2) The 10 panels were assigned Sample IDs and labeled with their Sample ID and number sequentially 1 thru 10.
- 3) Panels were held until cured a minimum of 28 days beyond their cast date before testing was started.
- 4) Panels 1 thru 5 had their center bricks cleaned and ground in preparation for attaching pull block.
- 5) Pull blocks were attached using the anchorage material shown below and cured as identify bellow.
- 6) Panels were loaded until failure using the hardware and speed shown below, per modified ASTM E488 method.
- 7) Panels 6 thru 10 were subjected to Rapid Freeze-Thaw testing per the method in ASTM C666 Procedure A.
- 8) After Rapid Freeze-Thaw cycling was completed, the samples were allowed to dry for a minimum of two days.
- 9) Panels 6 thru 10 then were then tested as outlined in procedures 4 thru 6 shown above.
- 10) The results of the testing are shown below.

Anchorage Used: Latapoxy Rapid Stone Adhesive 310

Curing Time For Anchorage: Cured a minimum of 48 hours

Adhesion Area Length (in): 7.63

Adhesion Area Width (in): 2.25

Test Equipment: Instron 1137 Tensil/Compression Tester

Load Cell Used: 30,000 LB Load Cell A532-1 SN-127

Load Rate: 2 mm/min

Tensile Bond Strength - As Received

Sample #	1	2	3	4	5	Average
Peak Load (lbs)	2,719	4,738	3,745	4,924	4,505	4,126
Peak Load (psi)	158	276	218	287	262	240
Test Date	6/25/19	6/25/19	9/12/19	9/12/19	9/12/19	
<u>Technician</u>	GB					

Tensile Bond Strength - Post Freeze Thaw

Sample #	6	7	8	9	10	Average
Peak Load (lbs)	3,504	3,368	3,683	3,199	3,106	3,372
Peak Load (psi)	204	196	215	186	181	196
Test Date	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20	
Technician	GB					

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As Received Tensile Pull Results Pictures

Sample 1



Sample 2



Sample 3

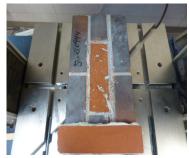


Sample 4









Post Freeze Thaw Tensile Pull Results Pictures

Sample 6



Sample 7



Sample 8



Sample 9



Sample 10



Michael Walker, Quality Manager

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