



TEST REPORT

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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

10/04/2019

Name:	King Klinker 501 Eagle Court Onalaska, WI 54650	Plant:	King Klinker	*Temperature: 60 - 90F
Phone:	608-406-9723	Report Number:	8914-20945	*Humidity: 30% - 70%
		Received Date:	6/18/2019	
		Sampled Date:	6/18/2019	

Description: Brown Clay Body - Embedded in Precast Concrete Panels

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

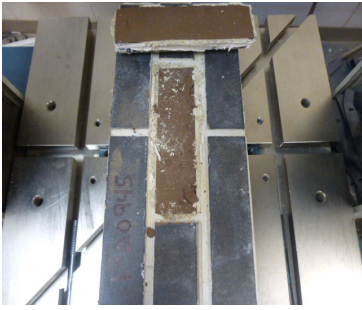
Sample #	1	2	3	4	5	Average
Peak Load (lbs)	2,799	3,425	3,119	3,165	3,199	3,141
Peak Load (psi)	184	225	205	208	210	206
Test Date	6/25/19	6/25/19	6/25/19	6/25/19	6/25/19	
Technician	GB					

Tensile Bond Strength - Post Freeze Thaw

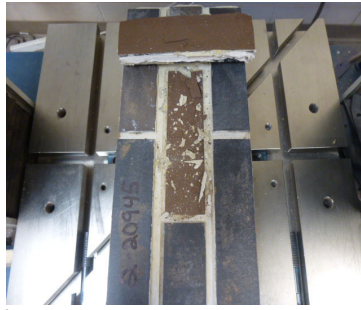
Sample #	6	7	8	9	10	Average
Peak Load (lbs)	2,419	3,838	2,719	2,945	2,665	2,917
Peak Load (psi)	159	252	178	193	175	191
Test Date	9/12/19	9/12/19	10/4/19	10/4/19	9/19/19	
Technician	GB					

As Received Tensile Pull Results Pictures

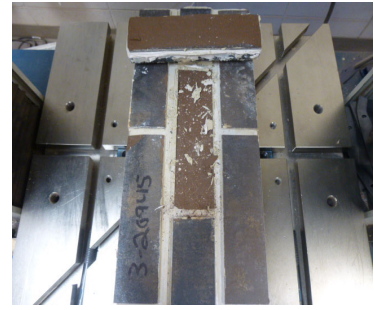
Sample 1



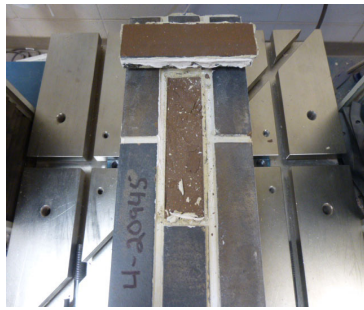
Sample 2



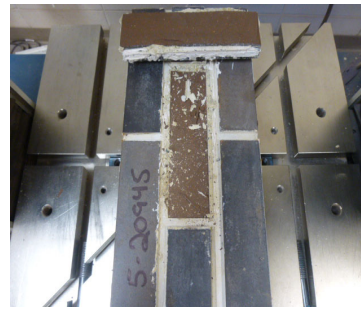
Sample 3



Sample 4

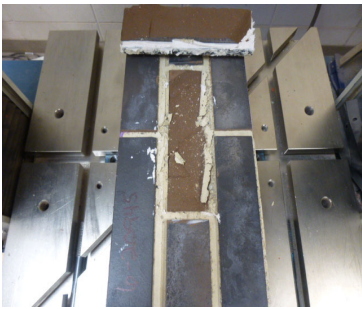


Sample 5

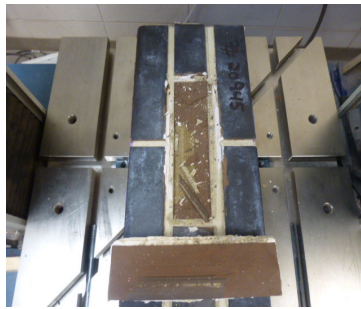


Post Freeze Thaw Tensile Pull Results Pictures

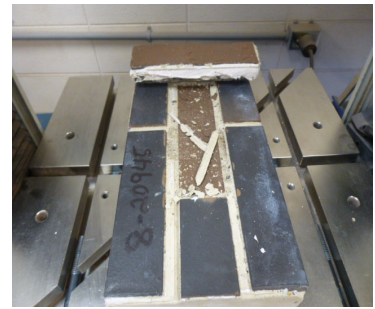
Sample 6



Sample 7



Sample 8




Sample 9



Sample 10




Michael Walker, Quality Manager

**The temperature and humidity of the Bishop Materials Laboratory is constantly kept between 60 -90F, and 30-70% RH
The results shown above apply only to the samples tested, which are provided by the customer.
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