



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

05/20/2020

Name:	King Klinker 501 Eagle Court Onalaska, WI 54650	Plant:	King Klinker
Phone:	608-406-9723	Report Number:	8914-22399
		Received Date:	1/27/2020
		Sampled Date:	1/27/2020
			*Temperature: 60 - 90F
			*Humidity: 30% - 70%

Description: White 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)	4,635	5,850	4,024	5,683	6,112	5,261
Peak Load (psi)	270	341	234	331	356	306
Test Date	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20	
Technician	GB					

Tensile Bond Strength - Post Freeze Thaw

Sample #	6	7	8	9	10	Average
Peak Load (lbs)	4,311	3,336	2,867	4,150	2,612	3,455
Peak Load (psi)	251	194	167	242	152	201
Test Date	5/18/20	5/18/20	5/20/20	5/18/20	5/18/20	
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.
This test report shall not be reproduced except in full, without written approval of the laboratory.*