

**Results of Tests on Specimens conducted in accordance with PCI Standard for Thin Brick
The Tensile Bond Strength of the center brick in each specimen was tested per modified ASTM E488**

12/14/2011

Name:	Yankee Hill Brick 3705 South Coddington Avenue Lincoln, NE 68522	Plant:	Yankee Hill Brick
Phone:	402-540-5240	Report Number:	4138.5597
Fax:	402-477-2832	Sampled Date:	10/11/2011
Sample Description:	Red, Red Flash, Medium Thin Brick	Lot:	
		Product Code:	

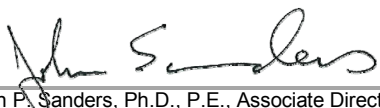
Initial							
Tensile Bond Strength	1	2	3	4	5	Average	Test Date
psi	376	377	294	301	300	330	10/20/2011
Mode of Failure	Face	Face	Face	Face	Face		

Note: All five (5) specimens exhibited cohesive failure within the thin brick.

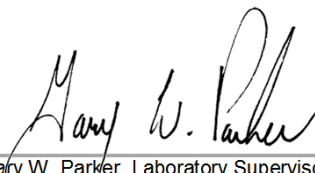
Afer 300 cycle Freeze Thaw tested in accordance with ASTM C666 Method A

Tensile Bond Strength	1	2	3	4	5	Average	Test Date
psi	304	255	314	180	236	258	12/9/2011
Mode of Failure	Face	Face	Face	Face	Face		

Note: All five (5) specimens exhibited cohesive failure within the thin brick.



John P. Sanders, Ph.D., P.E., Associate Director



Gary W. Parker, Laboratory Supervisor

Results of Tests on Brick conducted in accordance with ASTM C67-12 Standard Method for Sampling and

Testing Brick and Structural Clay Tile

03/04/2013

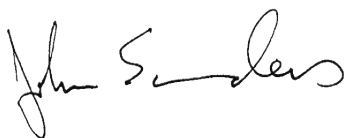
Name:	Pacific Clay Products Inc 14741 Lake Street Lake Elsinore, CA 92530-1609	Plant:	Pacific Clay Products
Phone:	951-805-4265	Report Number:	PCP-0020
Fax:		Sampled Date:	02/06/2013
		Lot:	
		Product Code:	

Sample Description: **Red, Red Flash, Medium Ironspot and Napa Thin Brick**

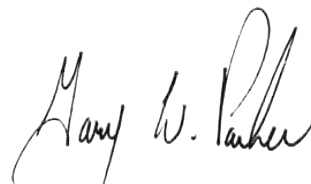
						Average	Test Date
Absorption	1	2	3	4	5		
24 Hour Submersion in Cold Water (%)	6.08	6.49	6.57	6.72	6.23	6.42	02/12/2013
5 Hour Submersion in Boiling Water (%)	7.94	8.44	8.39	8.57	8.11	8.29	
Saturation Coefficient (Ratio of 24H to 5H)	0.77	0.77	0.78	0.78	0.77	0.77	
Efflorescence	11	12	13	14	15		
	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced		03/01/2013

The brick represented by the test results shown here comply with the standards listed below:

ASTM C 1088 - 12 Standard Specification for thin Veneer brick Units Made From Clay or Shale
Grade: Exterior, Interior



John Sanders, Ph.D., PE, Director



Gary W. Parker, Laboratory Supervisor

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Results of Tests on Brick conducted in accordance with ASTM C67-12 Standard Method for Sampling and Testing

Brick and Structural Clay Tile

03/04/2013

Name:	Pacific Clay Products Inc 14741 Lake Street Lake Elsinore, CA 92530-1609	Plant:	Pacific Clay Products
Phone:	951-805-4265	Report Number:	PCP-0020
Fax:		Sampled Date:	02/06/2013
		Lot:	
		Product Code:	
Sample Description:	Red, Red Flash, Medium Ironspot and Napa Thin Brick	Type:	

Brick #	Corner A	Corner B	Corner C	Corner D	Pass/Fail	Test Date
1	0	0	0	0	Passed	
2	2/64	0	0	0	Passed	
3	0	0	0	0	Passed	
4	0	0	0	0	Passed	
5	0	0	4/64	0	Passed	
6	0	0	0	0	Passed	
7	0	0	0	0	Passed	
8	0	2/64	0	2/64	Passed	
9	0	0	0	0	Passed	
10	2/64	0	2/64	0	Passed	03/03/2013

Brick #	Concave Surface (Max)	Concave Edge (Max)	Convex Surface (Avg)	Convex Edge (Max)	Pass/Fail	Test Date
1	1/32	0	0	0	Passed	
2	2/32	0	0	0	Passed	
3	0	0	0	0	Passed	
4	1/32	0	0	0	Passed	
5	0	1/32	0	0	Passed	
6	1/32	0	0	0	Passed	
7	2/32	0	0	0	Passed	
8	0	0	0	0	Passed	
9	2/32	0	0	0	Passed	
10	1/32	0	0	0	Passed	03/03/2013

**Results of Tests on Brick conducted in accordance with ASTM C67-11 Standard Method for Sampling and Testing
Brick and Structural Clay Tile**

3/4/2013

Name:	Pacific Clay Products Inc 14741 Lake Street Lake Elsinore, CA 92530	Plant:	Pacific Clay Products
Phone:		Report Number:	PCP-0020
Fax:		Testing Date:	3/4/2013
Sample Description:	Red, Red Flash, Medium Ironspot and Napa Thin Brick	Specification:	1088
		Tolerance:	TBX
		Specified Dimensions:	7 5/8 x 2 1/4 x 5/8

Specimen ID	Average Length (in.)	Deviation From Spec.	Pass/Fail	Test Date
1	7 41/64	1/64	Pass	
2	7 42/64	2/64	Pass	
3	7 40/64	0	Pass	
4	7 41/64	1/64	Pass	
5	7 40/64	0	Pass	
6	7 39/64	1/64	Pass	
7	7 40/64	0	Pass	
8	7 42/64	2/64	Pass	
9	7 40/64	0	Pass	
10	7 42/64	2/64	Pass	
Group Average	7 41/64	1/64		3/4/2013

Specimen ID	Average Breadth (in.)	Deviation From Spec.	Pass/Fail	Test Date
1	2 16/64	0	Pass	
2	2 16/64	0	Pass	
3	2 16/64	0	Pass	
4	2 17/64	1/64	Pass	
5	2 15/64	1/64	Pass	
6	2 15/64	1/64	Pass	
7	2 16/64	0	Pass	
8	2 17/64	1/64	Pass	
9	2 16/64	0	Pass	
10	2 18/64	2/64	Pass	
Group Average	2 16/64	1/64		3/4/2013

Specimen ID	Average Height (in.)	Deviation From Spec.	Pass/Fail	Test Date
1	39/64	1/64	Pass	
2	38/64	2/64	Pass	
3	40/64	0	Pass	
4	39/64	1/64	Pass	
5	39/64	1/64	Pass	
6	37/64	3/64	Pass	
7	37/64	3/64	Pass	
8	39/64	1/64	Pass	
9	39/64	1/64	Pass	
10	39/64	1/64	Pass	
Group Average	39/64	1/64		3/4/2013