

Results of Tests on Brick conducted in accordance with ASTM C67-09 Standard Method for Sampling and

Testing Brick and Structural Clay Tile

07/15/2011

Name:	The Belden Brick Company 700 West Tuscarawas Street Canton, OH 44702	Plant:	The Belden Brick Company
Phone:	330-456-0031	Report Number:	BBC-0174
Fax:	330-456-2694	Sampled Date:	06/21/2011
		Lot:	
		Product Code:	02-10-45

Sample Description: **Plant 2, Shale/Fireclay Paver 2 1/4"**

						Average	Test Date
<b>Absorption</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>		
24 Hour Submersion in Cold Water (%)	2.66	2.12	2.11	1.80	2.45	2.23	07/07/2011
5 Hour Submersion in Boiling Water (%)	2.82	2.35	2.36	2.34	2.63	2.50	
Saturation Coefficient (Ratio of 24H to 5H)	0.94	0.90	0.89	0.77	0.93	0.89	
<b>Compressive Strength</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>Average</b>	
<i>psi</i>	N22,932	>22,943	>23,159	>22,844	>23,549	>23,085	06/29/2011
<i>MPa</i>	>158.1	>158.2	>159.7	>157.5	>162.4	>159.2	
<b>Breaking Load</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>Average</b>	
<i>(lb/in.)</i>	1,036	843	957	904	974	943	06/29/2011
<b>Efflorescence</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>		
	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced		07/13/2011
<b>IRA</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>Average</b>	
<i>g/min</i>	4.4	2.7	2.1	2.3	2.1	2.7	06/29/2011
<b>Abrasion Resistance</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>Average</b>	
	0.01	0.01	0.01	0.01	0.01	0.01	06/29/2011

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

ASTM C 1272 - 10 Standard Specification for Heavy Vehicular Paving Brick

Type: R

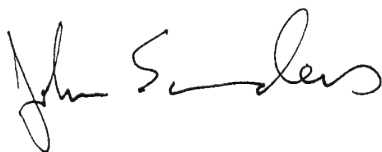
ASTM C 902 - 10 Standard Specification for Pedestrian and Light Traffic Paving Brick

Class: SX, MX, NX, with absorption alternate in section 4.1.1.1

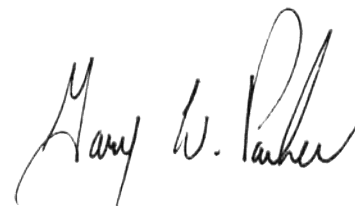
Type: I, II, III

**NOTES**

-\*Compressive strength load values exceeded maximum capacity of the strength machine.



John Sanders, Ph.D., PE, Associate Director for Operations



Gary W. Parker, Laboratory Supervisor