CLEMSON UNIVERSITY
THE BISHOP MATERIALS LABORATORY

TEST REPORT

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IAS ACCREDITED Testing Laboratory

Results of Tests on brick Conducted in accordance with C67/C67M - 23a Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile

02/26/2024

Name:	The Bowerston Shale Company P. O. Box 199 Bowerston, OH 44695	Plant:	The Bowerston Shale Company
		Sampled Date:	2/8/2024
		Received Date:	2/8/2024
Phone:	740-269-2921	Fired Date:	2/8/2024
Fax:	740-269-5456	Product Code:	
Report Number:	12466-30920	Lot Number:	H23160

Description: **Buff Clay Series**

Absorption	**1**	**2**	**3**	**4**	**5**	**Average**	**Test Date**
24 Hour Cold Water (%)	3.8	3.7	3.6	3.8	4.2	3.8	2/15/2024
5 Hour Boiling Water (%)	4.7	4.7	4.7	4.6	5.2	4.8	
Saturation Coefficient	0.79	0.78	0.76	0.84	0.80	0.79	

Compressive Strength	**1**	**2**	**3**	**4**	**5**	**Average**	**Test Date**
psi	22,580	20,800	20,280	20,400	18,840	20,580	2/23/2024

IRA (Oven Dried Method)	**6**	**7**	**8**	**9**	**10**	**Average**	**Test Date**
g/min/30 in.²	6.4	5.5	4.9	6.9	5.8	5.9	2/13/2024

Efflorescence	**11**	**12**	**13**	**14**	**15**		**Test Date**
Efflorescence Detection	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced		2/23/2024

Void Area	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Average**	**Test Date**
Void Area (%)	19	19	19	19	19	19	19	19	19	19	19	2/12/2024

The brick represented by the test results shown here comply with the physical property requirements of the standards listed below:

ASTM C32 - 23 Standard Specification for Sewer and Manhole Brick (Made From Clay or Shale)
Grades: SS, SM / MS, MM

ASTM C62 - 23 Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale)
Class: SW, MW, NW

ASTM C216 - 23 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)
Grade: SW, MW

Buff Clay Series Lot H23160:
#245, #425, #423, #424, #425-3, #426, #443, #445, #446, #448, #900, #903, #1000, #1003, #1425, #1443, #1445, #1446, #1448, #1520, #1525, #1540, #1543, #1545, #1546, Berkshire Blend, Desert Brown, Desert Sage, Desert Tan, Desert Umber, Desert Brown Flash, Desert Sage Flash, Desert Umber Flash, Meadowbrook Blend

Katherine Hill, 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.