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:	12467-30925	Lot Number:	#23142

Description: **Red Shale Series**

Absorption	**1**	**2**	**3**	**4**	**5**	**Average**	**Test Date**
24 Hour Cold Water (%)	4.1	3.2	4.0	2.8	2.9	3.4	2/15/2024
5 Hour Boiling Water (%)	5.4	4.3	5.2	3.7	3.7	4.5	
Saturation Coefficient	0.77	0.74	0.77	0.78	0.78	0.77	

Compressive Strength	**1**	**2**	**3**	**4**	**5**	**Average**	**Test Date**
psi	10,140	15,220	12,560	15,600	13,910	13,490	2/21/2024

IRA (Oven Dried Method)	**6**	**7**	**8**	**9**	**10**	**Average**	**Test Date**
g/min/30 in.²	6.2	8.9	9.5	9.1	11.2	9.0	2/20/2024

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 (%)	21	21	21	21	21	21	21	21	21	21	21	2/20/2024

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

Red Shale Series Lot #23142:
#130-1, #208, #610, #615, #717, #721, #7210, 49R, 51R, Almond Flash, Antique Red Flash, Black, Patent Black, Briarcliffe, Buckskin, Burgundy Blend, BW/50, Canyon Blend, Canyon, Charcoal Gray, Cherokee Blend, Chocolate, Chocolate FR, Cocoa, Collegiate Red Flash, Colonial Brown, Dark Red Flash, Dark Red, Eau Claire, Frisco Blend, Harrison Range, Hoosier Blend, Knox Blend, Lt. Chocolate Flash, Latrobe Blend, Mohican Blend, Monroe Blend, Navajo, New London Blend, Olde Cheyenne, Olde Harvard, Olde Windsor, Peach Blossom, Pioneer, Pioneer Blend, Red FR, Red, Rosedale Red, Rosedale Maroon, Rosemist, Royal Red, Rustic Red, Santa Fe, Stockbridge, Stratford, Terra Cotta Red, University Blend, Woodsfield 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.
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