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:	12467-30926	Lot Number:	#23181

Description: **Autumn Series**

Absorption	**1**	**2**	**3**	**4**	**5**	**Average**	**Test Date**
24 Hour Cold Water (%)	4.5	4.4	4.6	4.8	4.7	4.6	2/15/2024
5 Hour Boiling Water (%)	5.8	5.7	6.0	6.0	6.1	5.9	
Saturation Coefficient	0.77	0.77	0.77	0.80	0.77	0.78	

Compressive Strength	**1**	**2**	**3**	**4**	**5**	**Average**	**Test Date**
psi	18,950	16,500	19,640	13,910	15,660	16,930	2/21/2024

IRA (Oven Dried Method)	**6**	**7**	**8**	**9**	**10**	**Average**	**Test Date**
g/min/30 in.²	10.2	7.7	7.5	11.0	11.3	9.6	2/16/2024

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 (%)	22	22	22	22	22	22	22	22	22	23	22	2/16/2024

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

Autumn Series Lot #23181:
#340-1, #41, #41 Blend, #57, 85/15, 85/15 Clear, 80/20, #938-1, #940-1, #942-1, 47R, 48R, Autumn Blend, Autumn Clear, Autumn Rose, Autumn Rose Clear, Sunset Flash, Sunset Clear

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.