4287 N. Hwy 51
Perryville, MO 63775
Office 573-547-9097
Fax 573-547-6067
INFO@EARTHWORKSSTONE.NET

16900-A Baxter Road
Chesterfield, MO 63005
636-532-0713 Office
636-537-2786 Fax
EARTHWORKSSTONE.NET

10/12/23

Stone Test Data - Lakeside Buff:

Test Procedure: **ASTM C 97 Standard Test Method for Absorption and Specific Gravity for Dimension Stone**

Specimen Identification	Dry Weight (grams)	Saturated Weight (grams)	Suspended Weight (grams)	Absorption (%)	Bulk Specific Gravity	Density pcf
1	1083.40	1116.00	663.70	3.01	2.395	149.4
2	989.40	1047.40	599.60	5.86	2.209	137.8
3	979.20	1036.70	591.90	5.87	2.201	137.3
4	987.50	1045.30	598.50	5.85	2.210	137.9
5	971.20	1030.50	587.80	6.10	2.194	136.9
			Average	5.34	2.242	139.9
			Standard Deviation	1.31	0.086	5.3
			Coefficient of Variation	24.5	3.8	3.8

Test Procedure: **ASTM C 170 Standard Test Method for Compressive Strength of Dimension Stone**

Rift Orientation: **Parallel**

Preconditioning: **Dry**

Specimen Identification	Length (in)	Width (in)	Area (sq in)	Max Load (lbs)	Compressive Strength (psi)
1	2.99	3.07	9.18	56070	6108
2	2.98	3.08	9.18	84570	9212
3	3.02	3.08	9.30	90540	9735
4	3.07	2.99	9.18	52180	5684
5	3.07	3.00	9.21	54420	5909
		Average Compressive Strength		67556	7330
			Standard Deviation	18430	1972
			Coefficient of Variation (%)	27.3	27

Test Procedure: **ASTM C 170 Standard Test Method for Compressive Strength of Dimension Stone**

Rift Orientation: **Perpendicular**

Preconditioning: **Dry**

Specimen Identification	Length (in)	Width (in)	Area (sq in)	Max Load (lbs)	Compressive Strength (psi)
1	3.00	3.06	9.18	54430	5929
2	3.00	2.99	8.97	80420	8965
3	2.99	3.09	9.24	78720	8520
4	3.04	2.99	9.09	81740	8992
5	2.96	3.10	9.18	77950	8491
			Average Compressive Strength	74652	8179
			Standard Deviation	11400	1280
			Coefficient of Variation (%)	15.3	16

Test Procedure: **ASTM C 170 Standard Test Method for Compressive Strength of Dimension Stone**

Rift Orientation: **Parallel**

Preconditioning: **Wet**

Specimen Identification	Length (in)	Width (in)	Area (sq in)	Max Load (lbs)	Compressive Strength (psi)
1	3.00	3.07	9.21	34420	3737
2	3.06	3.09	9.46	64090	6775
3	2.99	3.09	9.24	64380	6968
4	2.98	2.96	8.82	36870	4180
5	2.97	3.08	9.15	39010	4263
			Average Compressive Strength	47754	5185
			Standard Deviation	15133	1554
			Coefficient of Variation (%)	31.7	30

Test Procedure: **ASTM C 170 Standard Test Method for Compressive Strength of Dimension Stone**

Rift Orientation: **Perpendicular**

Preconditioning: **Wet**

Specimen Identification	Length (in)	Width (in)	Area (sq in)	Max Load (lbs)	Compressive Strength (psi)
1	2.99	3.08	9.21	66030	7169
2	3.08	2.97	9.15	45890	5015
3	3.10	2.98	9.24	58180	6297
4	3.00	3.07	9.21	63660	6912
5	2.99	2.99	8.94	41340	4624
		Average Compressive Strength		55020	6003
		Standard Deviation		10913	1135
		Coefficient of Variation (%)		19.8	19