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## Earthworks Stone Testing Data

### COTTONWOOD - TOP LEDGE

#### Compressive Strength - ASTM C 170

Report No. 140007-9

<u>Specimen</u>	<u>Width (in)</u>	<u>Length (in)</u>	<u>Ultimate Load (lbs)</u>	<u>Compressive Strength (psi)</u>
1	2.019	1.986	25,987	6484
2	2.004	2.009	24,051	5975
3	2.028	1.996	22,167	5478
4	2.014	1.934	20,910	5371
5	1.936	2.028	20,099	5121
<b>Average</b>	-	-	-	<b>5686 Psi</b>
<b>Average</b>	-	-	-	<b>39.20 Mpa</b>

Requirements:

ASTM C 568-96, Medium Density Limestone Dimension Stone

Compressive Strength: 4000 Psi, minimum

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#### Abrasion Resistance - ASTM C 241

Report No. 140007-12

<u>Specimen</u>	<u>Bulk Specific Gravity</u>	<u>Average Weight (g)</u>	<u>Weight Loss (g)</u>	<u>Abrasion Index (H<sub>a,b</sub>)</u>
1	2.166	145.55	4.776	4.85
2	2.164	137.36	4.511	5.12
3	2.165	143.82	4.438	5.22
<b>Average</b>	<b>2.165</b>	-	-	<b>5.06</b>

Requirements:

ASTM C 568-96, Medium Density Limestone Dimension Stone

Abrasion Resistance: 10.0 H<sub>a,b</sub> Minimum

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#### Flexural Strength - ASTM C 880

Report No. 140007-15

<u>Specimen</u>	<u>Width (in)</u>	<u>Thickness (in)</u>	<u>Ultimate Load (lbs)</u>	<u>Flexural Strength (psi)</u>
1	3.916	1.399	929	1092
2	4.017	1.343	821	1021
3	3.996	1.229	790	1179
4	3.963	1.298	826	1113
5	3.999	1.335	680	859
<b>Average</b>	-	-	-	<b>1053 Psi</b>
<b>Average</b>	-	-	-	<b>7.26 Mpa</b>

Requirements: Not applicable



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## Earthworks Stone Testing Data

### COTTONWOOD - TOP LEDGE (page 2)

#### Modulus of Rupture - ASTM C 99

Report No. 140007-6

<u>Specimen</u>	<u>Width of Material (in)</u>	<u>Thickness of Material (in)</u>	<u>Ultimate Load (lbs)</u>	<u>Modulus of Rupture (Psi)</u>
1	3.975	2.527	2,198	909
2	3.977	2.566	2,143	860
3	3.997	2.485	1,929	821
4	3.971	2.438	2,039	907
5	3.976	2.485	2,146	918
<b>Average</b>	-	-	-	<b>883 Psi</b>
<b>Average</b>	-	-	-	<b>6.09 Mpa</b>

Requirements:

ASTM C 568-96, Medium Density Limestone Dimension Stone

Modulus of Rupture: 500 Psi, minimum

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#### Absorption and Specific Gravity - ASTM C 97

Report No. 140007-3

<u>Specimen</u>	<u>Wet Wgt (g)</u>	<u>Dry Wgt (g)</u>	<u>Volume (cm<sup>3</sup>)</u>	<u>Density (lb/ft<sup>3</sup>)</u>	<u>Specific Gravity</u>	<u>Absorption %</u>
1	300.14	281.32	129.80	135.25	2.167	6.69
2	303.83	285.40	130.96	135.99	2.179	6.46
3	300.54	282.49	130.02	135.58	2.173	6.39
<b>Average</b>	-	-	-	<b>135.61</b>	<b>2.173</b>	<b>6.51</b>

Requirements:

ASTM C 568-96, Medium Density Limestone Dimension Stone

Absorption: 7.5%, maximum

Density: 135 lb/ft<sup>3</sup>, minimum

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