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## Earthworks Stone Testing Data

### COTTONWOOD - BOTTOM LEDGE

#### Compressive Strength - ASTM C 170

Report No. 140007-8

<u>Specimen</u>	<u>Width (in)</u>	<u>Length (in)</u>	<u>Ultimate Load (lbs)</u>	<u>Compressive Strength (psi)</u>
1	1.916	2.057	22,267	5653
2	1.956	1.939	19,050	5024
3	2.039	2.044	23,222	5573
4	2.079	2.022	26,123	6217
5	1.963	2.058	20,508	5078
<b>Average</b>	-	-	-	<b>5509 Psi</b>
<b>Average</b>	-	-	-	<b>37.98 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. 140007-11

<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	2.116	135.67	6.329	3.56
2	2.124	141.36	5.909	3.83
3	2.125	136.84	5.872	3.85
<b>Average</b>	<b>2.122</b>	-	-	<b>3.75</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. 140007-14

<u>Specimen</u>	<u>Width (in)</u>	<u>Thickness (in)</u>	<u>Ultimate Load (lbs)</u>	<u>Flexural Strength (psi)</u>
1	4.040	1.321	527	673
2	3.977	1.319	526	684
3	4.080	1.238	559	805
4	3.973	1.318	606	791
<b>Average</b>	-	-	-	<b>738 Psi</b>
<b>Average</b>	-	-	-	<b>5.09 Mpa</b>

Requirements: Not applicable



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## Earthworks Stone Testing Data

### **COTTONWOOD - BOTTOM LEDGE (page 2)**

#### **Modulus of Rupture - ASTM C 99**

Report No. 140007-5

<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	4.041	2.538	2,203	889
2	4.020	2.563	2,492	991
3	4.031	2.553	2,384	953
4	3.980	2.597	2,419	947
5	4.012	2.555	2,413	968
<b>Average</b>	-	-	-	<b>949 Psi</b>
<b>Average</b>	-	-	-	<b>6.55 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. 140007-2

<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	283.96	262.81	124.10	132.150	2.118	8.05
2	292.27	270.86	127.08	133.000	2.131	7.90
3	291.11	267.12	128.57	129.640	2.078	8.98
<b>Average</b>	-	-	-	<b>131.59</b>	<b>2.109</b>	<b>8.31</b>

Requirements:

ASTM C 568-96, Medium Density Limestone Dimension Stone

Absorption: 12.0%, maximum

Density: 110 lb/ft<sup>3</sup>, minimum

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