

Subject: **Flexural Testing on 16-inch x 4-inch 1-1/4 inch thick Red Sandstone**  
 Specification: ASTM C 880  
 Source: Submitted to laboratory by client on September 18, 2007  
 Requirement: ASTM C 616 No flexural strength requirements for sandstone or quartzite type stone.

**Report of Tests**

**FLEXURAL STRENGTH TEST (ASTM C 880)**

Samples were conditioned as per specification, then tested accordingly. Test results are as follows:

**A. Dry Condition** Perpendicular to Rift Direction

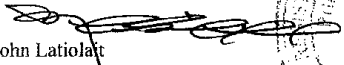
Sample No.	Width (Inches)				Thickness (inches)				Maximum Load, lbs.	Flexural Strength, PSI
	b1	b2	b3	Avg.:	d1	d2	d3	Avg.:		
1.	3.998	3.997	3.992	3.995667	1.277	1.276	1.276	1.276	658	1,062
2.	3.999	3.999	3.998	3.998667	1.248	1.248	1.249	1.248	665	1,121
3.	4.012	4.014	4.015	4.013667	1.247	1.248	1.248	1.248	672	1,129
4.	4.051	4.051	4.052	4.051333	1.204	1.206	1.208	1.206	526	937
5.	4.004	4.008	4.009	4.007	1.218	1.218	1.218	1.218	594	1,049
<b>Average (PSI):</b>										<b>1,060</b>
Standard Deviation (PSI):										77

**B. Wet Condition** Perpendicular to Rift Direction

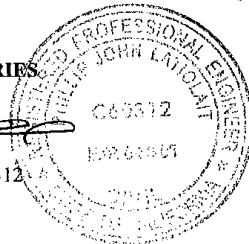
1.	4.04	4.039	4.038	4.039	1.311	1.309	1.307	1.309	840	1,274
2.	4.065	4.057	4.046	4.056	1.312	1.309	1.308	1.31	859	1,296
3.	4.002	4.001	3.998	4	1.322	1.324	1.326	1.324	1,035	1,550
4.	3.981	3.983	3.985	3.983	1.294	1.297	1.301	1.297	1,049	1,644
5.	3.983	3.984	3.986	3.984	1.282	1.285	1.287	1.285	583	931
<b>Average (PSI):</b>										<b>1,339</b>
Standard Deviation (PSI):										278

Remarks: ASTM C 616 – No Flexural Strength requirement for sandstone dimensional stone.

Respectfully Submitted,  
**SMITH - EMERY LABORATORIES**

  
 P. John Latiolat  
 Registered Civil Engineer No. C60312  
 Registration Expires: 06-30-08

rlm



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.



Subject: **Flexural Testing on 24-inch x 4-inch 2-1/2 inch thick Red Sandstone**  
 Specification: ASTM C 880  
 Source: Submitted to laboratory by client on September 18, 2007  
 Requirement: ASTM C 616 No flexural strength requirements for sandstone or quartzite type stone.

**Report of Tests**

**FLEXURAL STRENGTH TEST (ASTM C 880)**

Samples were conditioned as per specification, then tested accordingly. Test results are as follows:

**A. Dry Condition** Perpendicular to Rift Direction

Sample No.	Width (Inches)				Thickness (inches)				Maximum Load, lbs.	Flexural Strength, PSI
	b1	b2	b3	Avg.:	d1	d2	d3	Avg.:		
1.	3.970	3.978	3.981	3.976	2.383	2.390	2.395	2.389	2,138	1,625
2.	4.031	4.038	4.042	4.037	2.278	2.296	2.313	2.296	1,507	1,222
3.	3.967	3.976	3.985	3.976	2.365	2.363	2.361	2.363	2,326	1,807
4.	3.980	3.987	3.995	3.987	2.363	2.344	2.329	2.345	2,164	1,703
5.	3.993	3.990	3.980	3.988	2.404	2.400	2.398	2.401	2,220	1,666
<b>Average (PSI):</b>										<b>1,605</b>
Standard Deviation (PSI):										224

**B. Wet Condition** Perpendicular to Rift Direction

1.	3.989	3.991	3.993	3.991	2.318	2.316	2.319	2.318	1,665	1,339
2.	3.995	3.990	3.986	3.990	2.387	2.378	2.387	2.384	1,853	1,410
3.	3.993	3.996	3.998	3.996	2.412	2.415	2.412	2.413	1,267	939
4.	3.989	3.990	3.991	3.990	2.380	2.389	2.378	2.382	1,346	1,026
5.	3.974	3.978	3.983	3.978	2.357	2.328	2.361	2.349	1,718	1,350
<b>Average (PSI):</b>										<b>1,213</b>
Standard Deviation (PSI):										214

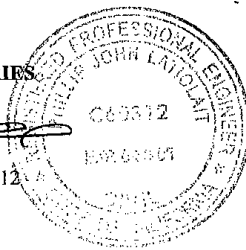
Remarks: ASTM C 616 – No Flexural Strength requirement for sandstone dimensional stone.

Respectfully Submitted,

**SMITH - EMERY LABORATORIES**

P John Latiolat  
 Registered Civil Engineer No. C60312  
 Registration Expires: 06-30-08

rlm



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.



Subject: **Flexural Testing on 34-inch x 4-1/2 inch x 3-inch thick Red Sandstone**  
 Specification: ASTM C 880  
 Source: Submitted to laboratory by client on September 18, 2007  
 Requirement: ASTM C 616 No flexural strength requirements for sandstone or quartzite type stone.

**Report of Tests**

**FLEXURAL STRENGTH TEST (ASTM C 880)**

Samples were conditioned as per specification, then tested accordingly. Test results are as follows:

**A. Dry Condition** Perpendicular to Rift Direction

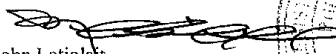
Sample No.	Width (Inches)				Thickness (inches)				Maximum Load, lbs.	Flexural Strength, PSI
	b1	b2	b3	Avg.:	d1	d2	d3	Avg.:		
1.	4.504	4.513	4.516	4.511	2.949	2.953	2.955	2.952	2,376	1,360
2.	4.499	4.505	4.506	4.503	2.947	2.943	2.941	2.944	2,338	1,348
3.	4.486	4.494	4.496	4.492	2.847	2.855	2.861	2.854	2,163	1,330
4.	4.508	4.506	4.502	4.505	2.951	2.951	2.946	2.949	2,353	1,351
5.	4.495	4.451	4.397	4.448	2.913	2.913	2.916	2.914	2,339	1,393
<b>Average (PSI):</b>										<b>1,356</b>
Standard Deviation (PSI):										23

**B. Wet Condition** Perpendicular to Rift Direction

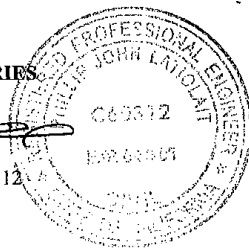
1.	4.504	4.502	4.498	4.501	2.956	2.960	2.961	2.959	2,411	1,377
2.	4.487	4.496	4.498	4.494	2.971	2.968	2.963	2.967	1,759	1,000
3.	4.489	4.492	4.491	4.491	2.870	2.880	2.887	2.879	1,864	1,127
4.	4.388	4.449	4.497	4.445	2.941	2.941	2.940	2.941	2,403	1,406
5.	4.495	4.502	4.505	4.501	2.892	2.901	2.910	2.901	1,918	1,139
<b>Average (PSI):</b>										<b>1,210</b>
Standard Deviation (PSI):										175

Remarks: ASTM C 616 – No Flexural Strength requirement for sandstone dimensional stone.

Respectfully Submitted,  
**SMITH - EMERY LABORATORIES**

  
 P. John Latiolatt  
 Registered Civil Engineer No. C60312  
 Registration Expires: 06-30-08

rlm



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.



Subject: **Flexural Testing on 44-inch x 6 inch x 4-inch thick Red Sandstone**  
 Specification: ASTM C 880  
 Source: Submitted to laboratory by client on September 18, 2007  
 Requirement: ASTM C 616 No flexural strength requirements for sandstone or quartzite type stone.

**Report of Tests**

**FLEXURAL STRENGTH TEST (ASTM C 880)**

Samples were conditioned as per specification, then tested accordingly. Test results are as follows:

**A. Dry Condition** Perpendicular to Rift Direction

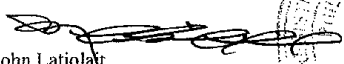
Sample No.	Width (Inches)				Thickness (inches)				Maximum Load, lbs.	Flexural Strength, PSI
	b1	b2	b3	Avg.:	d1	d2	d3	Avg.:		
1.	6.092	6.090	6.085	6.089	4.107	4.108	4.110	4.108	4,869	1,422
2.	6.001	6.002	6.003	6.002	4.106	4.105	4.104	4.105	4,177	1,239
3.	6.014	6.006	6.001	6.007	4.108	4.110	4.112	4.110	4,449	1,315
4.	6.029	6.039	6.043	6.037	4.098	4.098	4.100	4.099	4,851	1,435
5.	6.046	6.053	6.056	6.052	4.094	4.093	4.091	4.093	4,605	1,363
<b>Average(PSI):</b>									<b>1,355</b>	
Standard Deviation (PSI):									81	

**B. Wet Condition** Perpendicular to Rift Direction

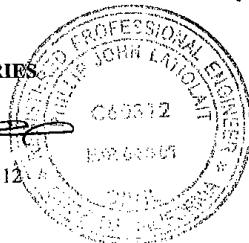
1.	6.023	6.033	6.037	6.031	4.076	4.073	4.075	4.075	4,406	1,320
2.	5.990	6.000	6.010	6.000	3.890	3.887	3.883	3.887	3,863	1,278
3.	6.038	6.040	6.042	6.040	4.046	4.050	4.054	4.050	3,960	1,199
4.	6.065	6.062	6.056	6.061	4.074	4.072	4.070	4.072	3,062	914
5.	6.060	6.053	6.036	6.050	3.956	3.963	3.962	3.960	3,643	1,152
<b>Average (PSI):</b>									<b>1,173</b>	
Standard Deviation (PSI):									159	

Remarks: ASTM C 616 – No Flexural Strength requirement for sandstone dimensional stone.

Respectfully Submitted,  
**SMITH - EMERY LABORATORIES**

  
 P. John Latiolati  
 Registered Civil Engineer No. C60312  
 Registration Expires: 06-30-08

rlm



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.



10.12.07

Subject: **Flexural Testing on 24-inch x 4-inch 2 inch thick Red Sandstone**  
 Specification: ASTM C 880  
 Source: Submitted to laboratory by client on September 18, 2007  
 Requirement: ASTM C 616 No flexural strength requirements for sandstone or quartzite type stone.

**Report of Tests**

**FLEXURAL STRENGTH TEST (ASTM C 880)**

Samples were conditioned as per specification, then tested accordingly. Test results are as follows:

**A. Dry Condition Parallel to Rift Direction**

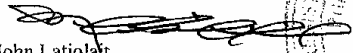
Sample No.	Width (Inches)				Thickness (inches)				Maximum Load, lbs.	Flexural Strength, PSI
	b1	b2	b3	Avg.:	d1	d2	d3	Avg.:		
1.	3.986	3.973	3.969	3.976	2.039	2.045	2.062	2.049	563	582
2.	3.974	3.980	3.986	3.980	2.045	2.038	2.036	2.040	695	724
3.	3.989	3.986	3.985	3.987	2.026	2.024	2.018	2.023	687	726
4.	3.984	3.986	3.990	3.987	2.053	2.053	2.055	2.054	852	874
5.	3.991	3.987	3.986	3.988	2.017	2.017	2.014	2.015	722	769
<b>Average (PSI):</b>									<b>735</b>	
Standard Deviation (PSI):									105	

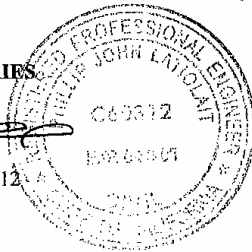
**B. Wet Condition Parallel to Rift Direction**

1.	3.990	3.988	3.977	3.985	2.075	2.065	2.065	2.070	678	685
2.	3.975	3.981	3.985	3.980	2.006	2.009	2.009	2.008	544	585
3.	3.991	3.987	3.983	3.987	2.003	2.004	2.010	2.006	440	473
4.	3.985	3.980	3.974	3.980	2.029	2.033	2.036	2.033	489	513
5.	3.974	3.977	3.986	3.979	2.005	2.005	2.003	2.004	432	466
<b>Average (PSI):</b>									<b>544</b>	
Standard Deviation (PSI):									92	

Remarks: ASTM C 616 – No Flexural Strength requirement for sandstone dimensional stone.

Respectfully Submitted,  
 SMITH - EMERY LABORATORIES

  
 P. John Latiolait  
 Registered Civil Engineer No. C60312  
 Registration Expires: 06-30-08



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.

rlm



10.12.07

Subject: **Flexural Testing on 34-inch x 4-inch 3 inch thick Red Sandstone**  
 Specification: ASTM C 880  
 Source: Submitted to laboratory by client on September 18, 2007  
 Requirement: ASTM C 616 No flexural strength requirements for sandstone or quartzite type stone.

**Report of Tests**

**FLEXURAL STRENGTH TEST (ASTM C 880)**

Samples were conditioned as per specification, then tested accordingly. Test results are as follows:

**A. Dry Condition Parallel to Rift Direction**

Sample No.	Width (Inches)				Thickness (inches)				Maximum Load, lbs.	Flexural Strength, PSI
	b1	b2	b3	Avg.:	d1	d2	d3	Avg.:		
1.	4.494	4.489	4.481	4.488	3.024	3.024	3.025	3.024	1,397	766
2.	4.478	4.489	4.493	4.487	3.031	3.026	3.025	3.027	1,403	768
3.	4.490	4.498	4.500	4.496	3.020	3.020	3.017	3.019	1,294	711
4.	4.475	4.485	4.489	4.483	3.019	3.021	3.019	3.020	1,460	803
5.	4.493	4.501	4.503	4.499	3.031	3.030	3.029	3.030	1,292	704
<b>Average(PSI):</b>									<b>750</b>	
Standard Deviation (PSI):									42	

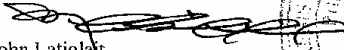
**B. Wet Condition Perpendicular to Rift Direction**

1.	4.482	4.490	4.493	4.488	3.014	3.013	3.013	3.013	1,475	815
2.	4.479	4.486	4.488	4.484	3.047	3.047	3.048	3.047	1,346	727
3.	4.483	4.496	4.491	4.490	3.017	3.017	3.014	3.016	1,236	681
4.	4.484	4.484	4.483	4.484	3.012	3.010	3.005	3.009	1,145	635
5.	4.485	4.482	4.471	4.479	3.013	3.053	3.050	3.039	1,301	708
<b>Average (PSI):</b>									<b>713</b>	
Standard Deviation (PSI):									67	

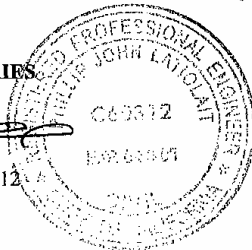
Remarks: ASTM C 616 – No Flexural Strength requirement for sandstone dimensional stone.

Respectfully Submitted,

SMITH - EMERY LABORATORIES

  
 P. John Latiolant  
 Registered Civil Engineer No. C60312  
 Registration Expires: 06-30-08

rlm



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.



10.12.07

Subject: **Flexural Testing on 44-inch x 6 inch x 4-inch thick Red Sandstone**  
 Specification: ASTM C 880  
 Source: Submitted to laboratory by client on September 18, 2007  
 Requirement: ASTM C 616 No flexural strength requirements for sandstone or quartzite type stone.

**Report of Tests**

**FLEXURAL STRENGTH TEST (ASTM C 880)**

Samples were conditioned as per specification, then tested accordingly. Test results are as follows:

**A. Dry Condition Parallel to Rift Direction**

Sample No.	Width (Inches)				Thickness (inches)				Maximum Load, lbs.	Flexural Strength, PSI
	b1	b2	b3	Avg.:	d1	d2	d3	Avg.:		
1.	5.998	5.992	5.983	5.991	4.020	4.021	4.022	4.021	1,897	588
2.	5.990	5.985	5.977	5.984	4.021	4.022	4.023	4.022	1,967	610
3.	5.977	5.990	5.993	5.987	4.014	4.017	4.018	4.016	2,291	712
4.	5.979	5.990	5.993	5.987	4.014	4.014	4.015	4.014	2,341	728
5.	5.997	5.995	5.985	5.992	4.019	4.019	4.017	4.018	1,939	601
<b>Average(PSI):</b>									<b>648</b>	
Standard Deviation (PSI):									67	

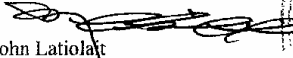
**B. Wet Condition Perpendicular to Rift Direction**

1.	5.981	5.978	5.969	5.976	4.021	4.022	4.023	4.022	1,837	570
2.	5.995	5.992	5.990	5.992	4.024	4.026	4.027	4.026	1,929	596
3.	5.996	5.992	5.983	5.990	4.024	4.026	4.028	4.026	1,971	609
4.	5.982	5.990	5.994	5.989	4.030	4.028	4.026	4.028	1,926	595
5.	5.997	5.992	5.983	5.991	4.033	4.031	4.030	4.031	1,929	594
<b>Average(PSI):</b>									<b>593</b>	
Standard Deviation (PSI):									14	

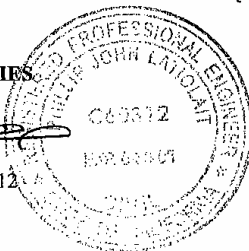
Remarks: ASTM C 616 – No Flexural Strength requirement for sandstone dimensional stone.

Respectfully Submitted,

SMITH - EMERY LABORATORIES

  
 P. John Latiolais  
 Registered Civil Engineer No. C60312  
 Registration Expires: 06-30-08

rlm



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.



Subject: **Flexural Testing on 24-inch x 4-inch 2 inch thick Red Sandstone**  
 Specification: ASTM C 880  
 Source: Submitted to laboratory by client on September 18, 2007  
 Requirement: ASTM C 616 No flexural strength requirements for sandstone or quartzite type stone.

**Report of Tests**

**FLEXURAL STRENGTH TEST (ASTM C 880)**

Samples were conditioned as per specification, then tested accordingly. Test results are as follows:

**A. Dry Condition** Parallel to Rift Direction

Sample No.	Width (Inches)				Thickness (inches)				Maximum Load, lbs.	Flexural Strength, PSI
	b1	b2	b3	Avg.:	d1	d2	d3	Avg.:		
1.	3.986	3.973	3.969	3.976	2.039	2.045	2.062	2.049	563	582
2.	3.974	3.980	3.986	3.980	2.045	2.038	2.036	2.040	695	724
3.	3.989	3.986	3.985	3.987	2.026	2.024	2.018	2.023	687	726
4.	3.984	3.986	3.990	3.987	2.053	2.053	2.055	2.054	852	874
5.	3.991	3.987	3.986	3.988	2.017	2.017	2.014	2.015	722	769
<b>Average(PSI):</b>									<b>735</b>	
Standard Deviation (PSI):									105	

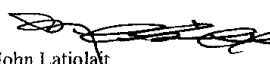
**B. Wet Condition** Parallel to Rift Direction

1.	3.990	3.988	3.977	3.985	2.075	2.065	2.065	2.070	678	685
2.	3.975	3.981	3.985	3.980	2.006	2.009	2.009	2.008	544	585
3.	3.991	3.987	3.983	3.987	2.003	2.004	2.010	2.006	440	473
4.	3.985	3.980	3.974	3.980	2.029	2.033	2.036	2.033	489	513
5.	3.974	3.977	3.986	3.979	2.005	2.005	2.003	2.004	432	466
<b>Average (PSI):</b>									<b>544</b>	
Standard Deviation (PSI):									92	

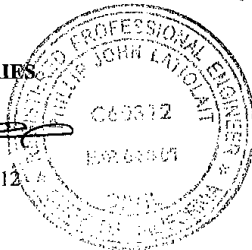
Remarks: ASTM C 616 – No Flexural Strength requirement for sandstone dimensional stone.

Respectfully Submitted,

SMITH - EMERY LABORATORIES

  
 P. John Latiolatt  
 Registered Civil Engineer No. C60312  
 Registration Expires: 06-30-08

rlm



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.





10.12.07

Subject: **Flexural Testing on 34-inch x 4-inch 3 inch thick Red Sandstone**  
 Specification: ASTM C 880  
 Source: Submitted to laboratory by client on September 18, 2007  
 Requirement: ASTM C 616 No flexural strength requirements for sandstone or quartzite type stone.

**Report of Tests**

**FLEXURAL STRENGTH TEST (ASTM C 880)**

Samples were conditioned as per specification, then tested accordingly. Test results are as follows:

**A. Dry Condition** Parallel to Rift Direction

Sample No.	Width (Inches)				Thickness (inches)				Maximum Load, lbs.	Flexural Strength, PSI
	b1	b2	b3	Avg.:	d1	d2	d3	Avg.:		
1.	4.494	4.489	4.481	4.488	3.024	3.024	3.025	3.024	1,397	766
2.	4.478	4.489	4.493	4.487	3.031	3.026	3.025	3.027	1,403	768
3.	4.490	4.498	4.500	4.496	3.020	3.020	3.017	3.019	1,294	711
4.	4.475	4.485	4.489	4.483	3.019	3.021	3.019	3.020	1,460	803
5.	4.493	4.501	4.503	4.499	3.031	3.030	3.029	3.030	1,292	704
<b>Average (PSI):</b>										<b>750</b>
Standard Deviation (PSI):										42

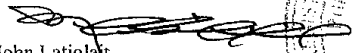
**B. Wet Condition** Perpendicular to Rift Direction

1.	4.482	4.490	4.493	4.488	3.014	3.013	3.013	3.013	1,475	815
2.	4.479	4.486	4.488	4.484	3.047	3.047	3.048	3.047	1,346	727
3.	4.483	4.496	4.491	4.490	3.017	3.017	3.014	3.016	1,236	681
4.	4.484	4.484	4.483	4.484	3.012	3.010	3.005	3.009	1,145	635
5.	4.485	4.482	4.471	4.479	3.013	3.053	3.050	3.039	1,301	708
<b>Average (PSI):</b>										<b>713</b>
Standard Deviation (PSI):										67

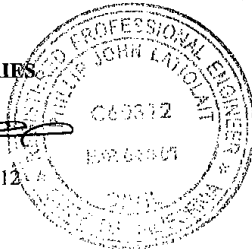
Remarks: ASTM C 616 – No Flexural Strength requirement for sandstone dimensional stone.

Respectfully Submitted,

SMITH - EMERY LABORATORIES

  
 P. John Latiolait  
 Registered Civil Engineer No. C60312  
 Registration Expires: 06-30-08

rlm



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.



Subject: **Flexural Testing on 44-inch x 6 inch x 4-inch thick Red Sandstone**  
 Specification: ASTM C 880  
 Source: Submitted to laboratory by client on September 18, 2007  
 Requirement: ASTM C 616 No flexural strength requirements for sandstone or quartzite type stone.

**Report of Tests**

**FLEXURAL STRENGTH TEST (ASTM C 880)**

Samples were conditioned as per specification, then tested accordingly. Test results are as follows:

**A. Dry Condition Parallel to Rift Direction**

Sample No.	Width (Inches)				Thickness (inches)				Maximum Load, lbs.	Flexural Strength, PSI
	b1	b2	b3	Avg.:	d1	d2	d3	Avg.:		
1.	5.998	5.992	5.983	5.991	4.020	4.021	4.022	4.021	1,897	588
2.	5.990	5.985	5.977	5.984	4.021	4.022	4.023	4.022	1,967	610
3.	5.977	5.990	5.993	5.987	4.014	4.017	4.018	4.016	2,291	712
4.	5.979	5.990	5.993	5.987	4.014	4.014	4.015	4.014	2,341	728
5.	5.997	5.995	5.985	5.992	4.019	4.019	4.017	4.018	1,939	601
<b>Average(PSI):</b>										<b>648</b>
Standard Deviation (PSI):										67

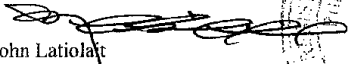
**B. Wet Condition Perpendicular to Rift Direction**

1.	5.981	5.978	5.969	5.976	4.021	4.022	4.023	4.022	1,837	570
2.	5.995	5.992	5.990	5.992	4.024	4.026	4.027	4.026	1,929	596
3.	5.996	5.992	5.983	5.990	4.024	4.026	4.028	4.026	1,971	609
4.	5.982	5.990	5.994	5.989	4.030	4.028	4.026	4.028	1,926	595
5.	5.997	5.992	5.983	5.991	4.033	4.031	4.030	4.031	1,929	594
										<b>593</b>
Standard Deviation (PSI):										14

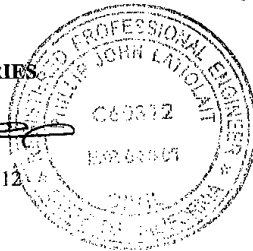
Remarks: ASTM C 616 – No Flexural Strength requirement for sandstone dimensional stone.

Respectfully Submitted,

SMITH - EMERY LABORATORIES

  
 P. John Latiolait  
 Registered Civil Engineer No. C60312  
 Registration Expires: 06-30-08

rlm



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.



**Subject:** Flexural Testing on 4-inch x 16-inch x 1 ¼" inch thick Sandstone  
**Specification:** ASTM C 880 Flexural Strength of Dimensional Stone  
**Source:** Submitted to laboratory by client on February 14, 2007

**Report of Tests**

**FLEXURAL STRENGTH TEST (ASTM C 880)**

Samples were conditioned as per specification, then tested accordingly. Test results are as follows:

**1. Dry Condition Parallel to Rift Direction**

Sample No.	Width (Inches)				Thickness (inches)				Maximum Load, lbs.	Flexural Strength, PSI
	b1	b2	b3	Avg.:	d1	d2	d3	Avg.:		
1.	3.918	3.196	3.912	3.915	1.335	1.334	1.336	1.335	950	1,225
2.	4.018	4.021	4.025	4.021	1.318	1.321	1.321	1.320	1,191	1,530
3.	4.088	4.078	4.068	4.078	1.334	1.334	1.335	1.334	1,134	1,406
4.	4.003	4.002	4.001	4.002	1.314	1.313	1.312	1.313	1,050	1,370
5.	4.072	4.073	4.075	4.073	1.256	1.260	1.263	1.260	870	1,211
<b>Average(PSI):</b>										<b>1,348</b>

**2. Dry Condition Perpendicular to Rift Direction**

1.	3.868	3.869	3.870	3.869	1.336	1.336	1.337	1.336	1,425	1,857
2.	4.061	4.068	4.074	4.068	1.329	1.330	1.330	1.330	1,139	1,452
3.	3.848	3.847	3.845	3.847	1.337	1.340	1.339	1.339	1,040	1,357
4.	3.950	3.949	3.948	3.949	1.334	1.334	1.334	1.334	1,363	1,746
5.	3.971	3.965	3.962	3.966	1.247	1.246	1.246	1.246	952	1,392
<b>Average (PSI):</b>										<b>1,555</b>

**3. Wet Condition Parallel to Rift Direction**

1.	3.995	3.993	3.990	3.993	1.312	1.313	1.314	1.313	452	591
2.	3.944	3.943	3.944	3.944	1.331	1.331	1.330	1.331	904	1,164
3.	4.074	4.072	4.071	4.072	1.372	1.368	1.363	1.368	373	441
4.	4.088	4.087	4.083	4.086	1.235	1.236	1.237	1.236	614	885
5.	4.080	4.078	4.076	4.078	1.249	1.248	1.247	1.248	512	725
<b>Average (PSI):</b>										<b>761</b>

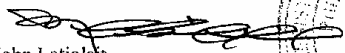


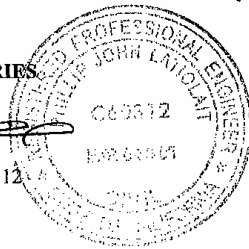
Revised & Released: March 23, 2007

**A. Wet Condition Perpendicular to Rift Direction**

Sample No.	Width (Inches)				Thickness (inches)				Maximum Load, lbs.	Flexural Strength, PSI
	b1	b2	b3	Avg.:	d1	d2	d3	Avg.:		
1.	4.075	4.076	4.076	4.076	1.322	1.325	1.327	1.325	956	1,202
2.	4.013	4.007	3.999	4.006	1.272	1.271	1.272	1.272	594	825
3.	3.769	3.770	3.770	3.770	1.340	1.340	1.341	1.340	787	1,046
4.	3.968	3.969	3.970	3.969	1.271	1.269	1.268	1.269	641	903
5.	3.871	3.869	3.861	3.867	1.248	1.249	1.250	1.249	646	964
<b>Average(PSI):</b>										<b>988</b>

Respectfully Submitted,  
SMITH - EMERY LABORATORIES

  
P. John Latiolat  
Registered Civil Engineer No. C60312  
Registration Expires: 06-30-08



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.

rlm

