



CLIENT: Texastone Quarries
PO Box 38
Garden City, TX 79739

Attn: Brenda Edwards

Test Report No: 140131	Date: October 5, 2004
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SUBJECT: Report of Resistance of Stone Material to Rapid Freeze & Thawing in accordance with ASTM C 666 Modified.

REFERENCE: Letter.

SAMPLE ID: Samples identified as "Texas Pearl Limestone" was received from the client on 8/2/04. The samples were received in good condition.

PROCEDURE: The tests were performed in accordance with ASTM C 666-92, Section A, with the following exceptions. The stone samples had been subjected to 100 cycles of Rapid Freezing and Thawing. The freezing and thawing cycle period was accelerated to 4 hours freezing, with 4 hours of thawing. This allowed for the completion of a full cycle in eight (8) hours to proper temperature requirements for the sample. The temperature range was from 170°F to - 10°F.

Sample sizes were changed to 15" x 4" x 1-1/4" to meet ASTM C 880-96 size requirements. The Flexural Strength tests, specified to compare the weathered stone samples with the initial stone samples, had been performed in accordance with ASTM C 880-96. No revisions to this report will be allowed after 90 days of the report date.

RESULTS: See test data and results on the following page.

TEST DATE: 8/20/01 – 9/19/01.

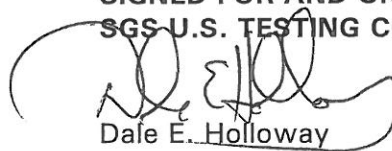
CERTIFICATION: The tests reported here were conducted under the continuous direct supervision of SGS U.S. Testing Company Inc., Tulsa, OK.



Jeffrey Simmons

bk Manager Laboratory Operations

**SIGNED FOR AND ON BEHALF OF
SGS U.S. TESTING COMPANY INC.**



Dale E. Holloway

Branch Manager Laboratory Operations

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Test Procedure and Results

Sample ID: "Texas Pearl Limestone"
(Before) Unweathered Samples

Span: 12in. Load Direction: Perpendicular to Rift, Tested Dry

<u>Specimen</u>	<u>Width (in)</u>	<u>Thickness, (in.)</u>	<u>Ultimate Load (lbs)</u>	<u>Flexural Strength (Psi)</u>
1	3.944	1.071	849	1689
2	3.951	1.086	857	1657
3	3.957	1.154	1118	1910
4	3.952	1.176	1100	1812
5	-	-	-	-
Average	-	-	-	1767 Psi
Average	-	-	-	12.18 MPa

"Texas Pearl Limestone"
(After) Weathered Samples

Span: 12 in. Load Direction: Perpendicular to Rift, Tested Dry

<u>Specimen</u>	<u>Width (in)</u>	<u>Thickness, (in.)</u>	<u>Ultimate Load (lbs)</u>	<u>Flexural Strength (Psi)</u>
1	3.940	1.274	501	706
2	3.928	1.263	446	641
3	3.927	1.264	485	696
4	3.966	1.255	458	660
5	3.954	1.260	406	583
Average	-	-	-	657 Psi
Average	-	-	-	4.53 MPa

Relative Flexural Strength (of initial Samples) 37.2%



VISUAL EFFECTS:

<u>Sample Reading</u>	<u>Cycle Number</u> (1 Freeze/ 1 Thaw)	<u>Visual Effects</u>
1	0	No evidence of cracks or defects present
2	10	No evidence of cracks or defects present
3	20	No evidence of cracks or defects present
4	30	No evidence of cracks or defects present
5	40	No evidence of cracks or defects present
6	50	No evidence of cracks or defects present
7	60	No evidence of cracks or defects present
8	70	No evidence of cracks or defects present
9	80	No evidence of cracks or defects present
10	90	No evidence of cracks or defects present
11	100	No evidence of cracks or defects present
12	125	No evidence of cracks or defects present

End of Report