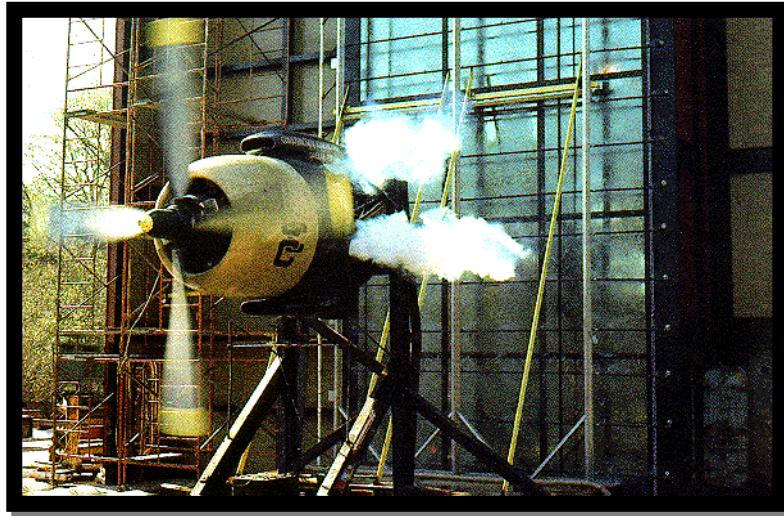




CONSTRUCTION CONSULTING LABORATORY, *INTERNATIONAL*



TEST REPORT:

ASTM E330-14 UNIFORM LOAD PERFORMANCE TESTING

NEVILSTONE

SERIES NevilStone / Light Weight Manufactured Stone

REPORT #CCLI-16-037

Report Date March 21, 2016

Prepared for:

NEVILSTONE

11588 Wild Rose Lane
Anna, Texas 75409
972-924-2159

S-UNITED, INC.
A Quality Control Company



1. PROJECT DATA

Project: ASTM Performance Testing

Tests Completed: **March 18, 2016**

Tested for: Nevil Stone Phone 360-495-3291

<u>Witnessed by:</u>	All or Partial Viewing	
Nevil Stone	Brad Nevil	
Construction Consulting Laboratory, <i>International</i>	Eddson Alarcon	Wesley Wilson

2. SUMMARY

Specimen	Title	Test Pressure	Results
4'-0" x 8'-0" Stone Veneer Mock-Up	ASTM E330-14 Uniform Load test	+70 / -110Psf	No Damage

3. TEST SPECIMEN

Series / Product Type:	NevilStone / Light Weight Manufactured Stone (average overall thickness of 1.75")
Test Methods	ASTM E330-14
Mock-Up Size:	1219mm x 2438mm (4'-0" x 8'-0")

Wood Framing: A nominal SPF 2" x 4" stud wall was constructed with an overall dimension of 4' wide x 8' feet tall. A single 2" x 4" sill plate and a double 2" x 4" head plate along with four (4) vertical studs set on a 16" centers. The specimen included two (2) intermediate studs and two (2) jamb studs and included a single cross brace at the wall mid-span of 4' 0". The 2" x 4" stud framing was installed into a nominal 2" x 8" test fixture for chamber installation.

Sheathing: The wood framing was sheathed with 7/16" thickness OSB strand board attached at the vertical studs with #6d deformed shank nails at each end and on approximate 16" centers. One #6d nail also used mid span between studs at the sill and head plates. The sheathing was covered with asphalt saturated rag felt paper that was installed across the width of the wall and layered running up the wall with a minimum 2" overlap. The felt paper was temporarily secured to the sheathing with standard galvanized staples. A galvanize steel 2.5Lb metal lath was installed over the felt paper, oriented with cups up to retain mortar, and secured to the wall with 16-gauge 15/16 " crown x 1 1/2" long galvanized staples spaced on 6" centers into the vertical studs through lath and felt paper.

Stone: NevilStone is a portland cement precast stone that is molded into varying shapes and thicknesses. The average thickness of the stone used on the mock-up was 1.75" and all castings are molded with a flat surfaced back.

Stone Installation: Using a notched trowel, a type S mortar was applied with horizontal grooves as a scratch coat over the lath to an average thickness of 1/2" and allowed to dry. The stones were selected aesthetically and installed onto the mock-up based on shape and thickness by applying an additional scratch coat completely to the back side of the stone and then firmly bedding the stone onto the wall. The stones are spaced to create an average joint thickness of 1/2". Once the stone sets, the mortar is tuck-pointed using a mortar grout bag and the joints smoothed onto all lateral edges of the stone.



4. PERFORMANCE RESULTS

<u>Title of Test</u>	<u>Test Method</u>	<u>Deflection</u>	<u>Allowed</u>
Uniform Load Deflection	ASTM E 330-14		
-Positive @ 3360Pa (70psf)		0.037"	No Damage*
-Negative @ 5280Pa (110psf)		0.526"	No Damage*

*There was no cracking observed on the stone or the mortar joints during or at the completion of the test loads. Deflection noted was at the center mid-span (horizontally and vertically) of the wall assembly.

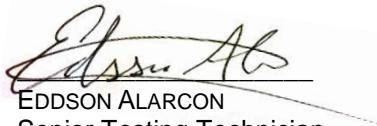
Photographs of the mock-up during construction and the finished product are on file with CCLI and Nevil Stone. These photo records will be retained at **CCLI** for a period of four (4) years.

5. DISCLAIMER

The above results were achieved by using the designated test methods. This report does not constitute certification of this product.

Respectfully submitted,

CONSTRUCTION CONSULTING LABORATORY, INTERNATIONAL


EDDSON ALARCON
Senior Testing Technician
Signed Electronically


WESLEY WILSON
Laboratory Manager
Signed Electronically

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