NevilStone

11588 Wild Rose Lane
Anna, TX 75406
Email: info@nevilstone.com
Contact: Brad Nevil 972-924-2159
www.**nevilstone**.com

1. Evaluation Scope

Compliance with the following codes:

- 2012, International Building Code (IBC)
- 2012, International Residential Code (IBC)

2. Properties Evaluated

- Structural performance of a completed assembly tested in accordance with ASTM E 330-14

2.1 Veneer properties and durability

- Density: ASTM C 567 according to ICC section 3.1.1
- Freeze/Thaw: ASTM C 67 according to ICC section 4.2
- Compressive Strength: ASTM C 192 according to ICC section 4.3
- Compressive Strength: ASTM C 39 according to ICC section 4.3
- Flexural Strength: ASTM C 348 according to ICC section 4.4
- Tensile Strength: ASTM C 190 according to ICC section 4.5
- Absorption, Flex, and Compression results per ASTM C 67
- Bond Strength: ASTM C 482 according to ICC section 4.7

See Appendix A for tested results

3. Uses:

NevilStone's exterior veneer pre-cast stone is an adhered, non-loadbearing, exterior veneer which can be installed on wood-framed walls, light gage steel stud walls, or concrete and masonry walls.

4. Description:

NevilStone's "Austin Stone" is a precast concrete product that has the appearance of natural stone, but is composed of cement, aggregate, water, admixtures and integrated inorganic colorings. The veneer units are molded and cured at the plant. The average saturated weight of the installed veneer units reported by NevilStone is 8 pounds per square foot (40 kg/m2).

Accessories for the Austin Stone are listed below:

- 17" Window Sill/Water table
- 7 3/4"H x 4 3/4"W Trim stone, 2.29 pieces per linear foot
- 19" x 20" Hearthstone/Flat Wall Coping
- Lightbox Trim
- 19"x19" Capstone
- 19"x12" Beveled Wall Coping
- 10" Keystone
- Quoin Corner

5. Installation Instructions

5.1 General Installation Requirements:

Installation of the veneer must comply with the manufacturer`s published installation instructions, and comply with applicable codes. The manufacturer`s published installation instructions must be available at the job site at all times during installation. In accordance with the code, the veneer can be installed over a lath and mortar scratch coat or directly to concrete and masonry.

5.2 Framed Wall Preparation:

Use a minimum #30 asphalt saturated rag felt paper weather barrier to cover the sheathing, overlapping the joints in a shingle fashion. Following local building codes, install 2.5 lb. / sq.yd. self-furred, 27" x 96" sheet size, galvanized lath with cups up.

Galvanized nails or staples should be placed 6" on center vertically and 16" on center horizontally and driven into the studs a minimum of 1". Wall flashings, weep screeds, corner beads and trims used with this product must be applied in accordance with manufacturers installation instructions. Termination of stone elements and minimum distance above grade is based on project design. Installation of the stone veneer shall comply with the building code authority having jurisdiction over project locations. Installation shall comply with the manufacturers installation instructions.

5.3 Applying NevilStone:

Using a notched trowel, a type S mortar shall be applied with horizontal grooves as a scratch coat over the lath to an average thickness of 1/2" and allowed to dry. The Austin Stones shall be selected aesthetically and installed onto the wall based on shape and thickness. An additional scratch coat of S-type mortar shall be applied to the back of each stone prior to firmly bedding the stone onto the wall. The stones are spaced to create a joint thickness of minimum 1/2"- to maximum 3/4". Once the stones set, additional Type-S mortar is tuck-pointed and the joints smoothed onto the edges of the stone

5.4 Applying Over Concrete or Masonry:

Installation over concrete and masonry must complete with IBC Section 1405.10. When adhering the veneer units directly to the concrete or masonry, the supporting surfaces must be prepared in accordance with IBC Section 2510.6 and 7 and the veneer units must be adhered to the supporting surface as described in Section 5.3 of this report. When adhering the veneer units to a lath and mortar scratch coat, the lathing and scratch coat preparation must comply with Section 5.2.

6. Conditions of Use

NevilStone`s Austin Stone adhered veneer described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1 of this report, subject to the following conditions:

- Installation of the veneer must comply with the manufacturer`s published installation instructions, and any applicable codes.
- Expansion or control joints used to limit the effect of differential movement of supports are to be specified by the architect, designer or veneer manufacturer, in that order. Consideration must also be given to movement caused by temperature change, shrinkage, creep and deflection.
- In jurisdictions adopting the IBC, the supporting wall framing must be designed to support the installed weight of the veneer system, including the stone veneer, scratch coat and setting bed, as applicable. At wall openings, the supporting members must be designed to limit deflection to 1/600 of the span of the supporting members.
- In jurisdictions adopting the IRC, where the seismic provisions of Section R301.2.2 apply, the average weight of the wall supporting the precast stone veneer, including the weight of the veneer system must be determined. When this weight exceeds the applicable limits of IRC Section R301.2.2.2.1, an engineered design of the wall construction must be performed in accordance with IPC Section R301.1.3.

7. Identification

Each package of veneer is labeled with the manufacturer`s name (NevilStone), contact information, the product name, style name, color and date.

See Appendix A for the label sample

This evaluation summary has been generated based on information provided to **CCI** by NevilStone. Approval of this building product can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought. This performance review summary report does not imply an endorsement of this product by **Construction Consulting International** (CCI)

APPENDIX A

- Density: ASTM C 567 according to ICC section 3.1.1
- Freeze/Thaw: ASTM C 67 according to ICC section 4.2
- Compressive Strength: ASTM C 192 according to ICC section 4.3
- Compressive Strength: ASTM C 39 according to ICC section 4.3
- Flexural Strength: ASTM C 348 according to ICC section 4.4
- Tensile Strength: ASTM C 190 according to ICC section 4.5
- Absorption, Flex, and Compression results per ASTM C 67
- Bond Strength: ASTM C 482 according to ICC section 4.7
- Structural performance of a completed assembly tested in accordance with ASTM E 330-14
- NevilStone Packaging Label

DALLAS LABORATORIES, INC.

Consultants and Technologists
Chemical and Petroleum Chemists

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MEMBERS
AMERICAN NATIONAL STANDARDS INSTITUTE
AMERICAN SOCIETY FOR QUALITY CONTROL
FEDERATION OF SOCIETIES FOR COATINGS TECHNOLOGY

From: Kevan Jones
Re: Testing for NevilStone

Date: March 16, 2012

To whom it may confirm:

Dallas Laboratories has been retained by NevilStone and is conducting the following tests for them:

- Density (ASTM C557)
- Compressive Strength (ASTM C192 & C39)
- Tensile Strength (ASTM C190)
- Flexural Strength (ASTM C348)
- Bond Strength (ASTM C482)
- Various Tests (ASTM C67)
  - MOR (Flex)
  - Compression
  - Absorption
  - Freeze/Thaw

Regards,

Kevan W. Jones, Vice President

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Chemical and Petroleum Chemists

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Submitted by: NevilStone
11536 Wild Rose Lane
Anna, TX 75409

Attn: Brad Nevil

Date: June, 13, 2012

Report No.: 44853-A

REPORT

Lab Sample No.

44853 Light Weight Manufactured Stone Veneer (5 specimens)

PROCEDURE

Sample was tested for dry and saturated densities per ASTM C567 after 28 day cure.

RESULTS

Attribute	Specimen #: 1	2	3	4	5	Avg. (Std. Dev.)
Density, lbs/ft^3 (ASTM C567)						
Air-Dry	88.85	90.19	86.43	89.02	87.66	88.43 (1.43)
Saturated (24 hrs. @ RT)	102.94	104.61	99.87	103.11	100.86	102.28 (1.90)
% Water Absorption	15.85	15.99	15.55	15.83	15.06	15.66 (0.37)

DISCUSSION

Material meets or exceeds the % water absorption requirements (18% max.) of AC51 (Table 2).

DALLAS LABORATORIES, INC

Kevan W. Jones, Vice President

Analyst: TL, KJ
KWJ: js

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Submitted by: NevilStone
11536 Wild Rose Lane
Anna, TX 75409

Attn: Brad Nevil

Date: June 19, 2012

Report No.: 44853-B1

REPORT

Lab Sample No.

44853 Light Weight Manufactured Stone Veneer (3 specimens)

PROCEDURE

Three specimens were tested for compressive strength per ASTM C39 at the reported cure interval using supplied cylinder (ASTM C192) specimens.

RESULTS

Test/Method	7 Day Cure
Compressive Strength, psi (ASTM C39)	1,588
	1,657
	1,628
Avg.	1,624
(Std. Dev.)	(34.6)

DISCUSSION

Material meets or exceeds the compressive strength requirements (1,800 psi avg. and 1,500 min. for each specimen) of AC51.

DALLAS LABORATORIES, INC

Kevan W. Jones, Vice President

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KWJ: js

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Submitted by: NevilStone
11536 Wild Rose Lane
Anna, TX 75409

Attn: Brad Nevil

Date: June 19, 2012

Report No.: 44853-B2

REPORT

Lab Sample No.

44853 Light Weight Manufactured Stone Veneer (3 specimens)

PROCEDURE

Three specimens were tested for compressive strength per ASTM C39 at the reported cure interval using supplied cylinder (ASTM C192) specimens.

RESULTS

Test/Method	28 Day Cure
Compressive Strength, psi (ASTM C39)	2,776
	2,641
	2,710
Avg.	2,709
(Std. Dev.)	(67.5)

DISCUSSION

Material meets or exceeds the compressive strength requirements (1,800 psi avg. and 1,500 min. for each specimen) of AC51.

DALLAS LABORATORIES, INC

Kevan W. Jones, Vice President

Analyst: TL, KJ
KWJ: js

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Submitted by: NevilStone
11536 Wild Rose Lane
Anna, TX 75409

Attn: Brad Nevil

Date: May 21, 2012

Report No.: 44853-C

REPORT

Lab Sample No.

44853 Light Weight Manufactured Stone Veneer (5 specimens)

PROCEDURE

Sample was tested for tensile strength per ASTM C190 after 28 day cure.

RESULTS

Attribute	Specimen #: 1	2	3	4	5	Avg. (Std. Dev.)
Tensile Strength, psi (ASTM C190)	380.6	344.0	352.9	333.9	350.6	352.4 (17.4)
% Variability from Avg.	+8.0	-2.4	+0.1	-5.2	-0.5	

DISCUSSION

Material meets or exceeds the tensile strength requirements (±10 max.) of AC51.

DALLAS LABORATORIES, INC

Kevan W. Jones, Vice President

Analyst: TL, KJ
KWJ: js

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Submitted by: NevilStone
11536 Wild Rose Lane
Anna, TX 75409

Attn: Brad Nevil

Date: June 13, 2012

Report No.: 44853-D1

REPORT

Lab Sample No.

44853 Light Weight Manufactured Stone Veneer (5 specimens)

PROCEDURE

Five specimens were tested for flexural strength per ASTM C348 at the reported cure interval.

RESULTS

Test/Method		7 Day Cure	% Variability from Avg.
Flexural Strength, psi (ASTM C348)		497.5	+1.0
		504.5	+2.4
		473.0	-4.0
		481.3	-2.3
		506.4	+2.8
	Avg.	492.5	
	(Std. Dev.)	(14.7)	

DISCUSSION

Material meets or exceeds the flexural strength requirements (±10 max.) of AC51.

DALLAS LABORATORIES, INC

Kevan W. Jones, Vice President

Analyst: TL, KJ
KWJ: js

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Submitted by: NevilStone
11536 Wild Rose Lane
Anna, TX 75409

Attn: Brad Nevil

Date: June 13, 2012

Report No.: 44853-D2

REPORT

Lab Sample No.

44853 Light Weight Manufactured Stone Veneer (5 specimens)

PROCEDURE

Five specimens were tested for flexural strength per ASTM C348 at the reported cure interval.

RESULTS

Test/Method		28 Day Cure	% Variability from Avg.
Flexural Strength, psi (ASTM C348)		817.9	+2.0
		785.7	-2.0
		846.9	+5.6
		766.9	-4.3
		791.2	-1.3
	Avg.	801.7	
	(Std. Dev.)	(31.2)	

DISCUSSION

Material meets or exceeds the flexural strength requirements (±10 max.) of AC51.

DALLAS LABORATORIES, INC

Kevan W. Jones, Vice President

Analyst: TL, KJ
KWJ: js

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Submitted by: NevilStone
11536 Wild Rose Lane
Anna, TX 75409

Attn: Brad Nevil

Date: June 19, 2012

Report No.: 44853-G

REPORT

Lab Sample No.

44853 Light Weight Manufactured Stone Veneer (5 specimens)

PROCEDURE

Sample was tested for compressive strength per ASTM C67 after 28 day cure.

RESULTS

Attribute	Specimen #: 1	2	3	4	5	Avg. (Std. Dev.)
Compressive Strength, psi (ASTM C67)	2,240	2,100	2,130	2,138	2,121	2,146 (54.5)

DISCUSSION

Material meets or exceeds the compressive strength requirements (1,800 psi avg. and 1,500 min. for each specimen) of AC51.

DALLAS LABORATORIES, INC

Kevan W. Jones, Vice President

Analyst: KJ
KWJ: js

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

ASTM Structural Performance Testing
NevilStone / Light Weight Manufactured Stone
Report #CCLI-16-037

March 21, 2016

1. PROJECT DATA

Project: ASTM Performance Testing

Tests Completed: **March 18, 2016**

Tested for: Nevil Stone Phone 360-495-3291

Witnessed by:	**All or Partial Viewing**	
Nevil Stone	Brad Nevil	
Construction Consulting Laboratory, *International*	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. The vertical studs were set on a 16" center spacing and 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'. 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 #30 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 attached to the sheathing with ½" 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 ½" galvanized staples.

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 ½" 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 to the back side of the stone and then firmly bedding stone onto the wall. The stones are spaced to create an average joint thickness of ½". Once the stone sets, the mortar is tuck-pointed using a mortar grout bag and the joints smoothed onto the edges of the stone.

ASTM STRUCTURAL PERFORMANCE TESTING
NEVILSTONE / LIGHT WEIGHT MANUFACTURED STONE
REPORT #CCLI-16-037
March 21, 2016

4. PERFORMANCE RESULTS

Title of Test	Test Method	Deflection	Allowed
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

- END OF REPORT -

Printing Specification Card

THIS PRINT CARD IS FOR SHOWING GENERAL GRAPHIC PLACEMENT ONLY. IT SHOULD NOT BE USED FOR MOUNTING. PLEASE INSPECT THIS PRINT CARD FOR ACCURACY AND COMPLETENESS. IF ANY ITEM IS NOT CORRECT OR IS DEFECTIVE, THE LIABILITY OF SOUTHERN GRAPHIC SYSTEMS, SHALL BE LIMITED TO CORRECTING OUR OWN MATERIALS. WE WILL NOT BE LIABLE FOR ANY LOSSES, DAMAGES, OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO COST OF OVERTIME, DELAYS, LOST PROFITS, PLATES OR CYLINDER DAMAGE, OR MISSING INSERTION DATE. OUR STAFF HAS MADE EVERY EFFORT TO BE CERTAIN THESE MATERIALS ARE CORRECT, BUT YOU MUST INSPECT THEM BEFORE USE.

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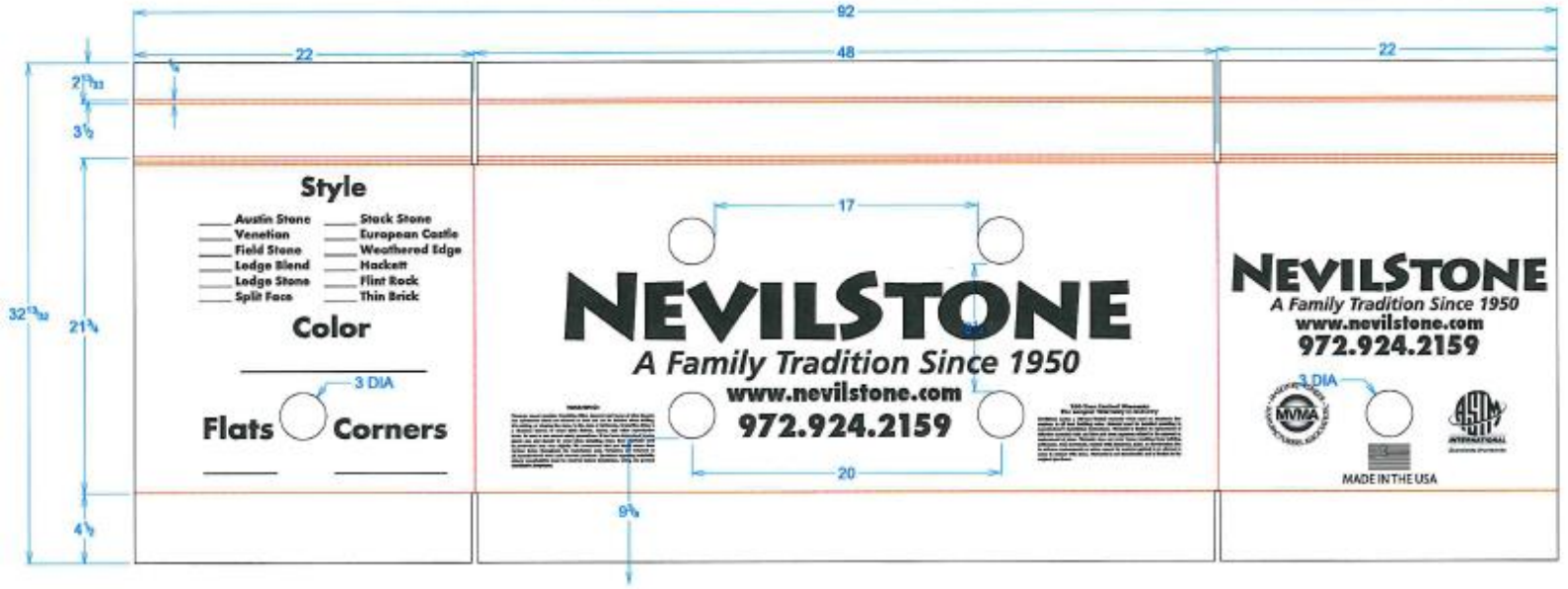
Customer: NevilStone		Finisher	Diamond Display Group
Creative Agency:			
Color Sequence:			DDGBlack
Description: Pallet Wrap			



WARNING:

Concrete veneer contains Crystalline Silica (quartz) and traces of other hazardous substances which are released as dust and can be inhaled when drilling, dry-cutting, or shaping the stone. In the state of California, Crystalline Silica is a chemical known to cause birth defects, cancer, and other reproductive harm. Be sure to use correct safety precautions. It has been determined broken pieces can and should be used when installing stone. Raw materials used in production may vary slightly. We recommend that you blend stones from various boxes throughout the installation area. Variations are inherent in all manufactured stone and concrete products. Questions regarding suitability and/or acceptability must be resolved before installation. Using the product constitutes acceptance.

100-Year Limited Warranty
The Longest Warranty In Industry

NevilStone carries a 100-year limited warranty when used on structures that conform to all local building codes. Material must be installed according to manufacturer's installation instructions. Warranty is limited to replacement of defective materials only and does not cover expenses related to the removal or replacement of stone. Warranty does not cover issues resulting from building settlement, wall movement, contact with chemicals, paint, or discoloration due to airborne contaminants or stains caused by material applied to or allowed to come in contact with stone. Warranty is non-transferable and is limited to the original purchaser.

LEAD EDGE

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DIAMOND DISPLAY GROUP

Color