

# DALLAS LABORATORIES, INC.

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Chemical and Petroleum Chemists

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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 C567)
- 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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Submitted by: NevilStone  
11536 Wild Rose Lane  
Anna, TX 75409

Date: June, 13, 2012

Attn: Brad Nevil

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.

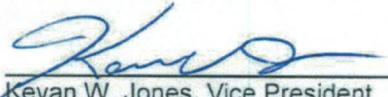
## RESULTS

<u>Attribute</u>	<u>Specimen #:</u>	1	2	3	4	5	<u>Avg. (Std. Dev.)</u>
Density, lbs/ft <sup>3</sup> (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).

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Kevan W. Jones, Vice President

Analyst: TL, KJ  
KWJ: js

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

Date: June 19, 2012

Attn: Brad Nevil

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

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

## DISCUSSION

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

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Kevan W. Jones, Vice President

Analyst: TL, KJ  
KWJ: js

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

Date: June 19, 2012

Attn: Brad Nevil

Report No.: 44853-B2

Lab Sample No.

## REPORT

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.

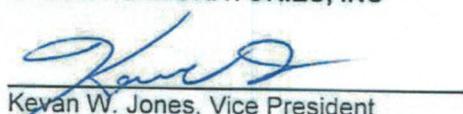
## RESULTS

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

## DISCUSSION

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

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Kevan W. Jones, Vice President

Analyst: TL, KJ  
KWJ: js

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

Date: May 21, 2012

Attn: Brad Nevil

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.

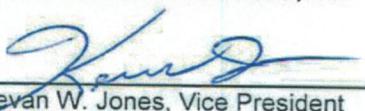
## RESULTS

<u>Attribute</u>	<u>Specimen #:</u>					<u>Avg. (Std. Dev.)</u>
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	
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 ( $\pm 10$  max.) of AC51.

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Kevan W. Jones, Vice President

Analyst: TL, KJ  
KWJ: js

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

Date: June 13, 2012

Attn: Brad Nevil

Report No.: 44853-D1

Lab Sample No.

REPORT

44853 Light Weight Manufactured Stone Veneer (5 specimens)

PROCEDURE

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

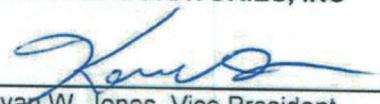
RESULTS

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

DISCUSSION

Material meets or exceeds the flexural strength requirements ( $\pm 10$  max.) of AC51.

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Kevan W. Jones, Vice President

Analyst: TL, KJ  
KWJ: js

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

Date: June 13, 2012

Attn: Brad Nevil

Report No.: 44853-D2

Lab Sample No.

## REPORT

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

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

## DISCUSSION

Material meets or exceeds the flexural strength requirements ( $\pm 10$  max.) of AC51.

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Kevan W. Jones, Vice President

Analyst: TL, KJ  
KWJ: js

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

Date: June 19, 2012

Attn: Brad Nevil

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

<u>Attribute</u>	<u>Specimen #:</u>					<u>Avg. (Std. Dev.)</u>
	1	2	3	4	5	
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

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

Date: June, 13, 2012

Attn: Brad Nevil

Report No.: 44853-H

## REPORT

### Lab Sample No.

44853      Light Weight Manufactured Stone Veneer (5 specimens)

## PROCEDURE

Sample was tested for water absorption per ASTM C67 after 28 day cure.

## RESULTS

<u>Attribute</u>	<u>Specimen #:</u>	1	2	3	4	5	<u>Avg. (Std. Dev.)</u>
Water Absorption, wt. % (ASTM C67)							
@ 5 hour cold		14.92	14.47	14.20	14.61	14.36	14.51 (0.27)

## DISCUSSION

Material meets or exceeds the % water absorption requirements (15% 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

Date: June 15, 2012

Attn: Brad Nevil

Report No.: 44853-H-1

## REPORT

### Lab Sample No.

44853 Light Weight Manufactured Stone Veneer (5 specimens)

## PROCEDURE

Sample was tested for water absorption per ASTM C67 after 28 day cure.

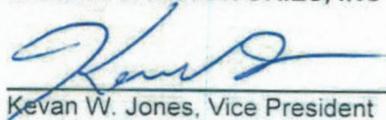
## RESULTS

<u>Attribute</u>	<u>Specimen #:</u>	1	2	3	4	5	<u>Avg. (Std. Dev.)</u>
Water Absorption, wt. % (ASTM C67)							
@ 5 hour cold		14.92	14.47	14.20	14.61	14.36	14.51 (0.27)
@ 24 hour cold		15.85	15.99	15.55	15.64	15.70	15.75 (0.17)
@ 5 hour boil		17.65	17.63	16.386	16.98	17.21	17.27 (0.36)
Saturation Coefficient		0.90	0.91	0.92	0.91	0.92	0.91 (0.01)

## DISCUSSION

Test values are reported as tested per ASTM C67 with no pass/fail criteria associated with 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

Date: October 1, 2012

Attn: Brad Nevil

Report No.: 44853-I

## REPORT

### Lab Sample No.

44853 Light Weight Manufactured Stone Veneer (5 specimens)

## PROCEDURE

Sample was tested for Freeze-Thaw Cycling Resistance per ASTM C67 (50 cycles) after 28 day cure.

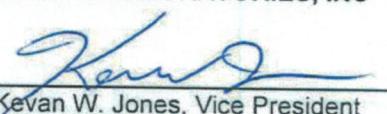
## RESULTS

<u>Attribute</u>	<u>Specimen #:</u>					<u>Requirements</u>
	1	2	3	4	5	
Cracking	No	No	No	No	No	No
Disintegrating	No	No	No	No	No	No
Weight Loss, %	0.8	1.2	1.3	1.1	1.4	3.0 max.

## DISCUSSION

Material meets or exceeds the freeze/thaw cycling requirements of AC51.

DALLAS LABORATORIES, INC

  
Kevan W. Jones, Vice President

Analyst: TL, KJ  
KWJ: js