DALLAS LABORATORIES, INC.

Consultants and Technologists
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

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.

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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

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

Attn: Brad Nevil

Date: June, 13, 2012

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

Attribute	Specimen #: 1	2	3	4	5	Avg. (Std. Dev.)
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

Attn: Brad Nevil

Date: June 15, 2012

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

Attribute	Specimen #: 1	2	3	4	5	Avg. (Std. Dev.)
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	16386	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.

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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: October 1, 2012

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

Attribute	Specimen #: 1	2	3	4	5	Requirements
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