

# HALLMARK BUILDING SUPPLIES, INC. WINDLOAD TEST REPORT

**SCOPE OF WORK**

ASTM D5206 WINDLOAD TESTING ON LDC-619 INTERLOCKING PANELS, LEVANTE SIDING

**REPORT NUMBER**

J3219.04-109-40

**TEST DATE(S)**

06/26/19 - 06/27/19

**ISSUE DATE**

09/09/19

**RECORD RETENTION END DATE**

06/27/23

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## TEST REPORT FOR HALLMARK BUILDING SUPPLIES, INC.

Report No.: J3219.04-109-40

Date: 09/09/19

### REPORT ISSUED TO

#### HALLMARK BUILDING SUPPLIES, INC.

2120 Pewaukee Road, Suite 100

Waukesha, Wisconsin 53188

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by Hallmark Building Supplies, Inc. to perform windload testing in accordance with ASTM D5206 on their LDC-619 Interlocking Panels, Levante Siding. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

### SECTION 2

#### SUMMARY OF TEST RESULTS

**Product Type:** Siding

**Series/Model:** LDC-619 Interlocking Panels, Levante

**Average Maximum Sustained Negative Pressure:** 125.0 psf

**Average Ultimate Negative Test Pressure:** 130.0 psf

For INTERTEK B&C:

<b>COMPLETED BY:</b>	John A. Shanabrook	<b>REVIEWED BY:</b>	Timothy J. McGill
<b>TITLE:</b>	Technician – Product Testing	<b>TITLE:</b>	Manager – Product Testing
<b>SIGNATURE:</b>		<b>SIGNATURE:</b>	
<b>DATE:</b>	09/09/19	<b>DATE:</b>	09/09/19

JAS:wnl

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## TEST REPORT FOR HALLMARK BUILDING SUPPLIES, INC.

Report No.: J3219.04-109-40

Date: 09/09/19

### SECTION 3

#### TEST METHOD(S)

The specimen was evaluated in accordance with the following:

**ASTM D5206-13**, *Standard Test Method for Windload Resistance of Rigid Plastic Siding*

### SECTION 4

#### MATERIAL SOURCE/INSTALLATION

The specimens were selected by Intertek B&C personnel. The specimens were witnessed during production and tagged prior to shipment on 04/01/19, (Reference Intertek B&C Test Specimen Selection Report No. J3219.02-103-15, dated 04/01/19). Representative samples of the test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

The specimen was installed into test buck measuring 4' 1-1/2" wide by 6' high constructed of #2 Spruce-Pine-Fir nominal 2x4 lumber. Two studs were spaced 16" on center (three spans) and were attached to the top and bottom plates with 3" long drywall screws. The right center stud was reinforced with an additional nominal 2x4 stud sistered into place per client request. A sheet of nominal 1/2" thick OSB, with five 4" diameter holes to allow pressure to transfer to the siding, was secured to the studs with #8 x 1-5/8" drywall screws. Silicone was utilized on the backside of the test panel to seal the perimeter. A 2-mil thick plastic film was loosely draped over the interior of the siding to enable attainment of pressure.

The siding was mounted with #8 x 1-5/8" lath self-tapping screws, spaced 16" on center through the sheathing and into the studs.

### SECTION 5

#### EQUIPMENT

Tape Measure Verification: 63788

Control Panel: 005406

Weather Station: 63316

### SECTION 6

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Michael Hoium	Hallmark Building Supplies, Inc.
Timothy J. McGill	Intertek B&C
John A. Shanabrook	Intertek B&C

## TEST REPORT FOR HALLMARK BUILDING SUPPLIES, INC.

Report No.: J3219.04-109-40

Date: 09/09/19

### SECTION 7

#### TEST SPECIMEN DESCRIPTION

<b>MANUFACTURER</b>	Levanté, LLC
<b>SERIES/MODEL</b>	LDC-619 Interlocking Panels, Levante
<b>PRODUCT TYPE</b>	Aluminum siding
<b>MATERIAL TYPE</b>	Aluminum
<b>NOMINAL THICKNESS</b>	0.071"
<b>MEASURED THICKNESS</b>	0.079"
<b>NAIL HEM TYPE</b>	Flat
<b>NAIL HEM THICKNESS</b>	0.075"
<b>EXTERIOR FINISH</b>	Flat

Each specimen consisted of four horizontal courses of siding with a male interlock on the bottom and a female interlock on the top. An aluminum starter strip was utilized the length of the bottom plate. A vertical transition strip was installed in the second and third courses over the sistered stud.

### SECTION 8

#### TEST RESULTS

The temperature during testing was 29°C - 31°C (85°F - 87°F). The results are tabulated as follows:

**General Note:** All loads were negative pressure and were held for thirty seconds. A 5.0 psf pre-load was applied before running specimens to failure.

#### Test Specimen #1:

PRESSURE	RESULTS
10.0 psf to 125.0 psf	No damage
130.0 psf	Testing stopped due to the wall design

#### Test Specimen #2:

PRESSURE	RESULTS
10.0 psf to 125.0 psf	No damage
130.0 psf	Testing stopped due to the wall design

**TEST REPORT FOR HALLMARK BUILDING SUPPLIES, INC.**

Report No.: J3219.04-109-40

Date: 09/09/19

**Test Specimen #3:**

PRESSURE	RESULTS
10.0 psf to 125.0 psf	No damage
130.0 psf	Testing stopped due to the wall design

**SECTION 9**

**CONCLUSION**

The specimens tested successfully achieved an Average Maximum Sustained Negative Pressure of 125.0 psf and an Average Ultimate Negative Test Pressure of 130.0 psf.

Testing was stopped due to pressure limits on the testing buck being reached.

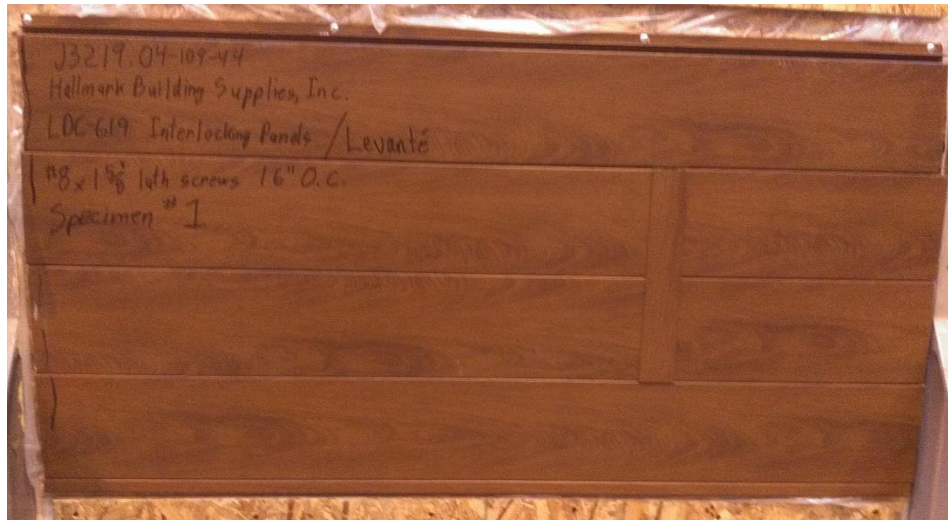
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Report No.: J3219.04-109-40

Date: 09/09/19

### SECTION 10

#### PHOTOGRAPHS



**Photo No. 1**  
**Specimen #1 Prior to Testing**



**Photo No. 2**  
**Specimen #2 Prior to Testing**

## TEST REPORT FOR HALLMARK BUILDING SUPPLIES, INC.

Report No.: J3219.04-109-40

Date: 09/09/19



**Photo No. 3**  
**Specimen #3 Prior to Testing**



Total Quality. Assured.

130 Derry Court  
York, Pennsylvania 17406

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Report No.: J3219.04-109-40

Date: 09/09/19

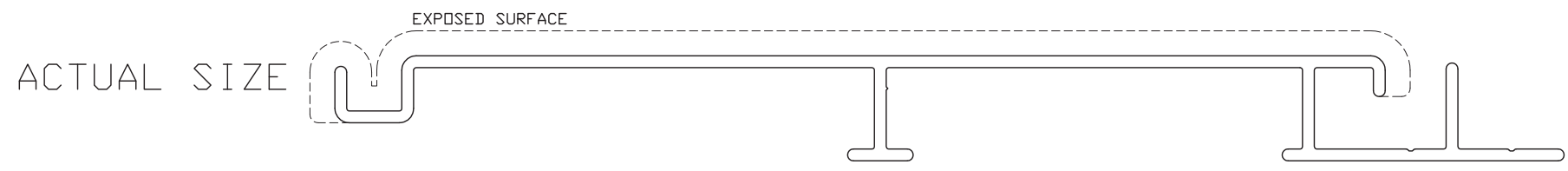
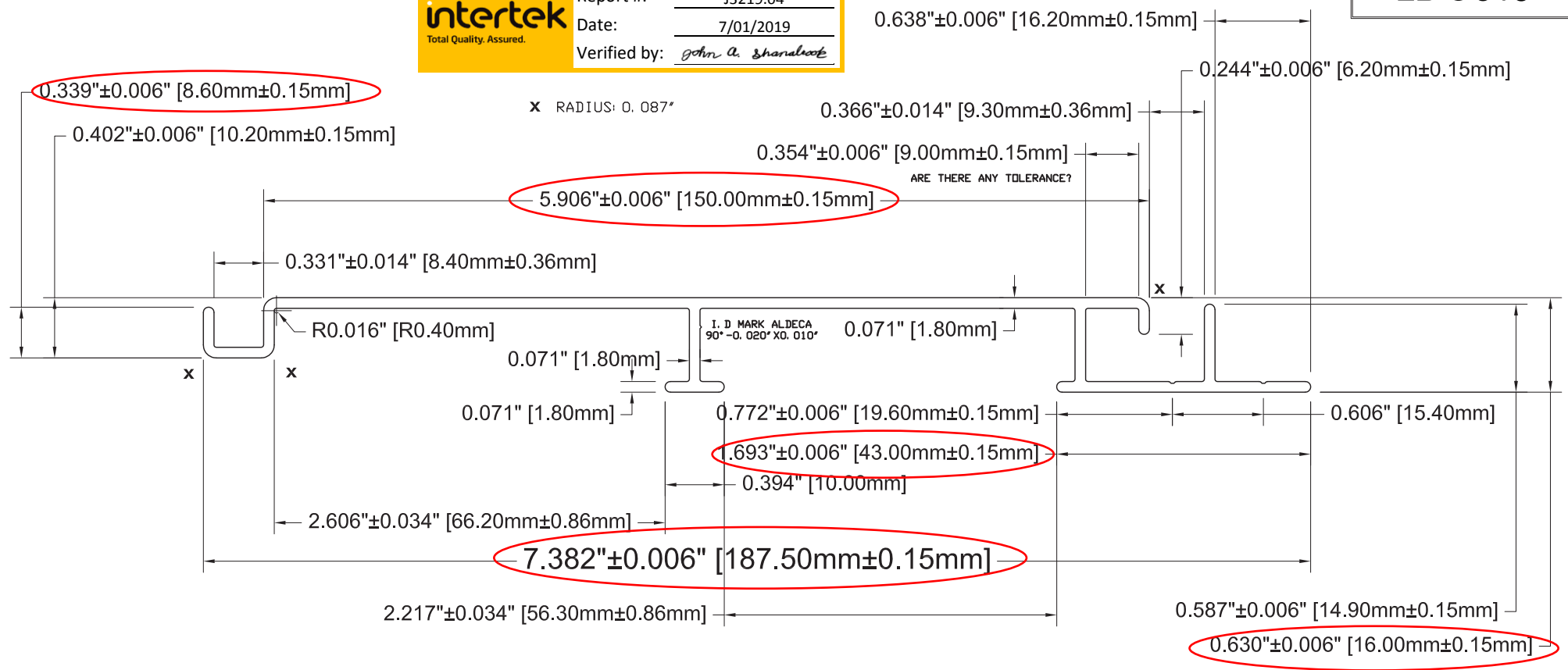
### SECTION 11 DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimens reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.



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Report #: J3219.04  
Date: 7/01/2019  
Verified by: John A. Sharabook



Est. Area	: 0.745	Sq/In.
Est. WT/FT	: 0.876	LBS.
Est. Perimeter	: -----	Inches
OutSide Perimeter	: 21.026	Inches
Circum Circle	: 7.409	Inches
Factor	: 24.003	

UNLESS OTHERWISE SPECIFIED

TYPICAL WALL THICKNESS : 0.071"  
BREAK SHARP CORNERS : 0.016"  
ALL DIMENSIONS ARE : Inches

ESCALE : 1 : 1  
DETAILS : 0.00 : 0

CUSTOMER: **LEVANTÉ**

ALUMINUM ASSOCIATION STANDARD FOR EXTRUDED SHAPES APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE.			
INGDT	PZS.		ALLOY: 6 0 6 3
7"			TEMPER: T 5
8"			

DRAWING : Arq. Victor Flores - 18/12/17  
REVISED: Arq. Victor Flores  
DATE: 18 / 12 / 17

CLASSIFICATION

SOLID   
SEMI-HOLLOW   
HOLLOW

NAME :  
**INTERLOCKING BOARD**  
APROX. 6" (150MM)

**LEVANTÉ**  
PREMIER ALUMINUM EXTERIORS

LDC619



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Date: 09/09/19

**SECTION 12**

**REVISION LOG**

REVISION #	DATE	PAGES	REVISION
0	09/09/19	N/A	Original Report Issue