

ICC-ES TEST REPORT

ASTM E330 Procedure B, ESR Certification

**RENDERED TO: LUX Architectural Products
14525 112 AVE NW Edmonton
AB T5M 2V5**

PRODUCT: LUX V-Groove Siding and Soffit



Report No.: LAPA053124-42(R2)
Test Date(s): 10/25/2024 - 10/28/2024
Report Date: 03/11/2025
Pages: 32

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1.0 General Information

1.1 Product

LUX V-Groove Siding and Soffit

1.2 Project Summary

ICC Evaluation Service (ICC-ES) was contracted by LUX Architectural Products to evaluate LUX V-Groove Siding and Soffit in accordance with ASTM C1513, ASTM E8, and ASTM E330. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at ICC-ES's facility in Nappanee, IN.

1.3 Product Description

LUX V-Groove Siding and Soffit panels include a smooth-type (for siding and soffit) and a vented-type (for soffit) and are manufactured from CS Type B steel coils with a 0.0255 inch base metal thickness with a 50 µm (approx. 0.00197-inch) thick Z150 zinc coating. The panels are available in 4-inch and 6-inch widths for both the smooth and vented panels and are available in custom ordered lengths ranging from 4 to 24 feet. Only the 6-in. width was tested throughout this report. The V-Groove Siding and Soffit Panel can be seen in Appendix A.

1.4 Qualifications

ICC-ES in Nappanee, IN has demonstrated compliance with ISO/IEC 17025 and is consequently accredited as a Testing Laboratory. ICC-ES is accredited to perform all testing reported herein.

1.5 Product Sampling

A representative of ICC-ES visited LUX Architectural Products facility located in Edmonton, Alberta on July 5th, 2024 and selected the materials for the testing reported herein. All test specimens were supplied by LUX Architectural Products. See photograph in Appendix A for typical sampling mark.

1.6 Witnessing

No representatives of LUX Architectural Products were present for testing reported herein.

1.7 Conditions of Testing

Unless otherwise indicated, all testing reported herein was conducted in ambient laboratory conditions.

2.0 Referenced Standards

ASTM C1513-18, Standard Specification for Steel Tapping Screws for Cold-Formed Steel Framing Connections

ASTM E8-21, Standard Test Methods for Tension Testing on Metallic Materials

ASTM E330-2014(2021)- Standard test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference

3.0 Summary of Results

Standard	Variable	Results
ASTM C1513: Dimension Verification	N/A	All Dimensions Correlated to Manufacturer's Specifications and Documentation
ASTM E8: Tensile Strength of Metallic Material	Avg. Yield Strength (ksi)	52.3
	Avg. Tensile Strength (ksi)	57.9
	Avg. Modulus of Elasticity (ksi)	28,197
ASTM E330 Procedure B: Structural Performance by Uniform Static Air	Specimen Pressure (in-use)	Negative
	Avg. Ultimate Uniform Pressure (psf)	86

4.0 ASTM C1513: Dimensional Analysis Testing

4.1 General

The purpose of this test was to determine the dimensional properties of the fastener.

4.2 Test Specimens

Test specimens were 0.3675-in. wide x 1.125-in. long x 0.118-in. thick Truss Head Wood Screws supplied by the client.

4.3 Test Setup and Procedure

Test specimen fasteners were conditioned and tested in standard controlled lab environment for all testing described herein. Dimensions for each outlined feature were taken in triplicate with the average for each feature and being report as the value.

Deviations from the standard include: None

4.4 Test Results

Results from testing are provided in the table below. All dimensions listed below are in inches.

Feature	Specimen Number 162878	Specimen Number 162879	Specimen Number 162880	Specimen Number 162881	Specimen Number 162882
Truss Screw Head Height	0.109	0.118	0.109	0.107	0.122
Washer Diameter	0.360	0.364	0.372	0.374	0.365
Washer Thickness	0.029	0.034	0.032	0.031	0.034
Overall Length	1.092	1.099	1.096	1.093	1.092
Thread Length	0.781	0.782	0.785	0.782	0.787
Major (Outside) Thread Dia.	0.167	0.166	0.168	0.168	0.167
Minor (Root) Thread Dia.	0.099	0.101	0.100	0.694	0.101
Coated Blank (Unthreaded Shank) Dia.	0.118	0.118	0.119	0.119	0.119
Full Length	1.201	1.217	1.205	1.200	1.214

5.0 ASTM E8: Tensile Testing

5.1 General

This test method covers the tension testing of metallic materials in any form at room temperature.

5.2 Test Specimens

In preparation for testing, tensile specimens were water jet cut from the materials provided. A minimum of three specimens were tested.

Parameter	Description
Specimen Type	Sheet
Gage Length	2.3-in.
Standard Specimen Width	0.5-in.
Overall Length	8.0-in.

5.3 Test Setup and Procedure

Any coating (paint, galvanization, etc.) was removed from the grip ends of the tensile specimens, but not from the necked or reduced section areas. Specimen thicknesses were measured prior to removal of coatings and once again after removal, if applicable, in order to record the base metal thickness of the material. The width of the narrow section of each specimen was also measured. The cross-sectional area of the reduced section was calculated from these measurements and was utilized in the calculation for Equations 1 through 3.

The universal testing machine was fitted with tensile grips and each specimen was placed into the grips and secured into place prior to the start of testing. An extensometer was fitted over the gage length of the specimen to record the extension in the specimen during testing. The universal test machine was run at 50,000 psi/minute in tension until failure occurred; data was logged continuously throughout the test.

Deviations from the standard include: None

5.4 Test Results

Results for each test are summarized in the table below. Formulas used in the calculation of results are given in Equations 1 through 3. Additional test data is provided in Appendix C.

$$F_U = \frac{P_U}{A} \quad \text{(Equation 1)}$$

Where:

F_U = Tensile Strength (kip/in.²)

P_U = Ultimate Load (kip)

A = Cross-sectional area in the necked down region of the tensile bar (in.²)

$$F_Y = \frac{P_Y}{A} \quad \text{(Equation 2)}$$

Where:

F_Y = Yield Strength (kip/in.²)

P_Y = Yield Load (kip)

A = Cross-sectional area in the necked down region of the tensile bar (in.²)

$$E = \frac{\sigma}{\epsilon} \quad \text{(Equation 3)}$$

Where:

E = Modulus of Elasticity (kip/in.²)

σ = Stress (kip/in.²)

ϵ = Strain (in./in.)

σ / ϵ = Slope of the linear portion of the stress-strain curve (kip/in.²)

Specimen Number	Yield Strength (ksi)	Tensile Strength (ksi)	Modulus of Elasticity (ksi)	Measured Un-Coated (Base-Metal) Thickness (in.)	Location of Break
162819	52.5	58.2	27,500	0.0233	Break within gauge
162820	52.5	58.0	28,652	0.0233	Break within gauge
162821	51.9	57.6	28,441	0.0234	Break in center of gauge

6.0 ASTM E330 Procedure B: Transverse Load Testing

6.1 General

The purpose of this test was to determine the resistance to wind load of the V-Groove Siding.

6.2 Test Specimens

Full wall constructions were used during testing. The V-Groove Siding was constructed to the client's installation specifications. The tables below denote the material and fastener schedule for assemblies tested herein.

Component	Description
Sheathing	7/16-inch-thick Exposure 1 OSB sheathing (24/16 Rated) complying with US DOC PS-2 (4-ft x 5-ft)
Studs	Single 2x4 #2 SPF, at 24-inches on center
Top Plate	Single 2x4, #2 SPF
Bottom Plate	Single 2x4, #2 SPF
Siding Panels	LUX V-Groove Siding Panels (smooth only) installed over sheathing (horizontal orientation only). Poly must be under siding panels for negative pressure test specimens.

Connection	Fastener	Quantity or Spacing
Sheathing to Framing	0.113-in. x 2-in. Smooth Shank Nail	6/12 ^a (3/8-in. Edge Distances)
Siding Panels to Sheathing	1-1/8-inch long #8 truss head screws	Fasteners shall be spaced 24-inches on center. Fasteners must be secured into framing members
Bottom plate to studs	0.162-in. x 3-1/2-in. Smooth Shank Nail	2 per stud
Top plate to studs	0.162-in. x 3-1/2-in. Smooth Shank Nail	2 per stud

^a Given as edge / field spacing

6.3 Test Setup and Procedure

The table below denotes parameters used during testing.

Parameter	Value or Description
Number of Sets	1
Number of Specimens per Set	3
Composition of Sets	Negative Pressure
E330 Procedure	B
Deflections (Y/N)	No
Test Load (psf)	60
Pre-Load (psf)	Yes, Half Test Load
Load Increments	6
Increment Load (psf)	10
Load Duration (s)	10

Each test was conducted in accordance with ASTM E330, Procedure B. Accordingly, specimens were installed over a test chamber and supported via ledger plates at their ends. A sheet of 2-mil polyethylene was used to apply the uniform pressure for each of the tests by draping it over the specimen and taping or sealing it by other means to the test chamber.

An initial pre-load of one-half the specified maximum test pressure was applied, held for 10 seconds, and then released. A recovery period of 1 to 5 minutes was allowed, after which the dial gauges were zeroed, and testing continued by loading in the number of increments specified up to the maximum specified test pressure. At each increment the full pressure was held for 10 seconds, the deflection readings were recorded, then the pressure was released. A recovery period of between 1 and 5 minutes was again allowed before continuing to the next increment. After the increment for the specified maximum test pressure was completed, the dial gauges were removed, and the specimen was loaded at a continuous rate until ultimate load occurred. The ultimate load and mode of failure were recorded along with any observations during the test.

Deviations from the standard include: None

6.4 Test Results

Results from testing are provided in the table below.

Specimen Number	Specimen Pressure (in-use)	Ultimate Uniform Pressure (psf)	Pressure at Deflection of L/360 (psf)	Pressure at Deflection of L/240 (psf)	Failure Mode at Ultimate
163199	Negative	79.3	41.3	N/A	Disengagement between panels
163200		96.9	44.2	N/A	Disengagement between panels
163201		82.1	42.4	60.6	Disengagement between panels

7.0 Closing Statement

This report contains only findings and results arrived at after employing the specific test procedures listed herein. It does not constitute a recommendation for, endorsement of, or certification of the product or material tested. Unless differently required, ICC-ES reports apply the "Simple Acceptance" rule, also called "Shared Risk approach", of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity. ICC-ES makes no warranty, expressed or implied, except that the test has been performed, and a report prepared, based upon the specimen specified by the client. Extrapolation of data, from the test data provided herein, to the batch or lot from which the specimens were obtained may not correlate and should be interpreted with extreme caution. ICC-ES assumes no responsibility for variations in quality, composition, appearance, performance, or other features of similar materials produced by the client, other persons, or under conditions over which ICC-ES has no control. ICC-ES has issued this report for the exclusive use of the client to whom it is addressed. Any use or duplication of this report shall not be made without their consent. This report shall only be reproduced in its entirety.

For ICC Evaluation Service (ICC-ES):

Joe Springer
Project Engineer

03/11/2025

Justin Doran
Project Manager

03/11/2025

Appendix A - Photographs



Photo No. 1
ASTM E8 Tensile Testing on Specimen No. 162819

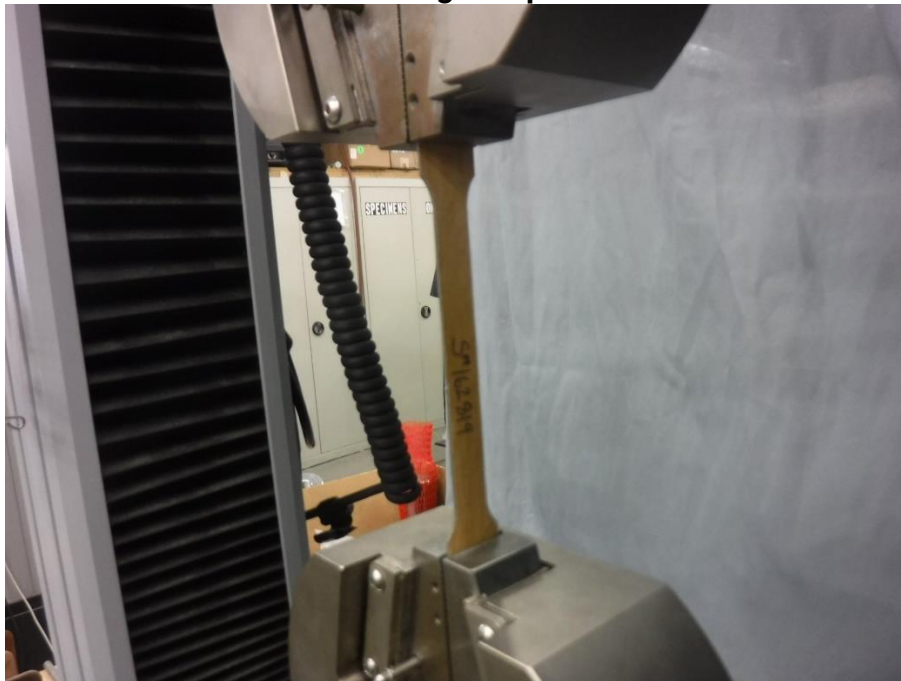


Photo No. 2
ASTM E8 Tensile Testing on Specimen No. 162819 (2)



Photo No. 3
ASTM E8 Tensile Testing on Specimen No. 162819 (3)

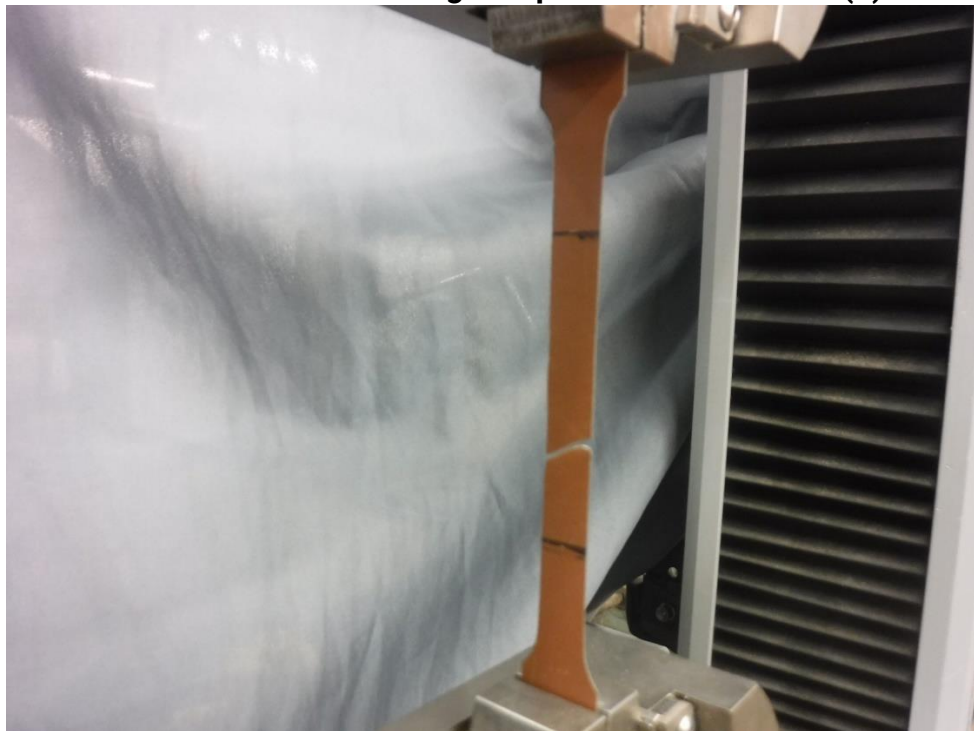


Photo No. 4
ASTM E8 Specimen No. 162819 Failure

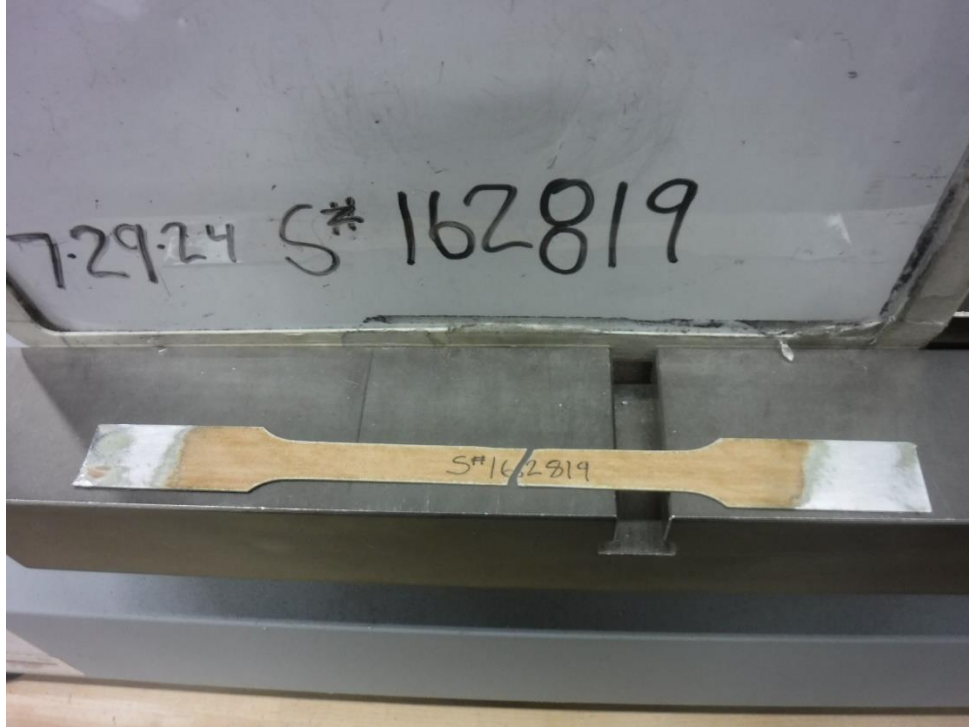


Photo No. 5
ASTM E8 Specimen No. 162819 Failure (2)



Photo No. 6
ASTM E330 Test Frame



Photo No. 7
ASTM E330 Test Frame (2)



Photo No. 8
ASTM E330 - Starter Strip on Specimen No. 163199



Photo No. 9
Specimen No. 163199 - 24-in. o.c. Fastener



Photo No. 10
Specimen No. 163199 - 24-in. o.c. Fastener (2)



Photo No. 11
ASTM E330 – Specimen No. 163199 Completely Constructed



Photo No. 12
ASTM E330 – Specimen No. 163199 Completely Constructed (2)



Photo No. 13
ASTM E330 – Specimen No. 163199 Attached to Test Wall



Photo No. 14
Specimen No. 163199 After Failure Occurred



Photo No. 15
Specimen No. 163199 After Failure (2)



Photo No. 16
Specimen No. 163199 After Failure (3)

Appendix B - Drawings

ORIGINAL

MILL TEST CERTIFICATE



DX DONGKUK STEEL

MESSRS. DONGKUK INTERNATIONAL, INC.
19750 MAGELLAN DR.
TORRANCE, CA 90502

DATE : 2022.11.25
MTC NO : UC1-1-221115-002
ORDER NO : E220929056
INVOICE NO : D20221115F002
L/C NO. : T/T MOORE SALES
P/O NO. : LPL202206005

COMMODITY : PREPAINTED 55% ALUMINUM-ZINC ALLOY COATED STEEL SHEETS IN COIL,
SPECIFICATION : ASTM A755,CS-B,AZM150

COIL NO.	SIZE	WEIGHT		CHEMICAL COMPOSITION(%)								HARDNESS	ERIC HSEN	TENSILE TEST				AL-ZINC COATING (g/m²)	HEAT No.	COIL TEST	PACK TEST	HAND TEST	CORROSION TEST	SALT SPRAY	WEATHERING TEST	T/B	COATING THICK (µm)	SPANGLE	
		NET wt (KGS/LBS)	GRS wt (KGS/LBS)	X 1000										N/mm²			%												
				C	Si	Mn	P	S	Al	B	HRB			mm	YP	TS													EL
020-0001 EAKA509	0.0255" NOM X 48" X COIL	1,280 2,822	1,390 3,065	40	10	250	14	6	42	0	64	10.1	359	411	33	G	153.4	638205	G	G	G	G	9.4 26.1	G	G	G	G	40 10	EXTRA SMOOTH
020-0002 EB7A50C	0.0255" NOM X 48" X COIL	4,540 10,009	4,650 10,252	40	10	170	18	4	30	0	68.7	8.1	394	451	25.3	G	154.3	2940517	G	G	G	G	10.6 19.6	G	G	G	G	40 10	EXTRA SMOOTH
020-0003 EB7A50D	0.0255" NOM X 48" X COIL	3,910 8,621	4,020 8,863	40	10	170	18	4	30	0	68.7	8.1	394	451	25.3	G	154.3	2940517	G	G	G	G	10.6 19.6	G	G	G	G	40 10	EXTRA SMOOTH
020-0004 EB7A50E	0.0255" NOM X 48" X COIL	3,660 8,069	3,770 8,312	40	10	170	18	4	30	0	68.7	8.1	394	451	25.3	G	154.3	2940517	G	G	G	G	10.6 19.6	G	G	G	G	40 10	EXTRA SMOOTH
020-0005 EB7A50H	0.0255" NOM X 48" X COIL	3,910 8,621	4,020 8,863	40	10	170	18	4	30	0	68.7	8.1	394	451	25.3	G	154.3	2940517	G	G	G	G	10.6 19.6	G	G	G	G	40 10	EXTRA SMOOTH
020-0006 EB7A50J	0.0255" NOM X 48" X COIL	1,750 3,859	1,860 4,101	40	10	170	18	4	30	0	68.7	8.1	394	451	25.3	G	154.3	2940517	G	G	G	G	10.6 19.6	G	G	G	G	40 10	EXTRA SMOOTH
030-0001 EAKA50E	0.0255" NOM X 48" X COIL	3,580 7,893	3,690 8,136	50	20	260	12	6	37	0	60.7	8.9	333	415	32.2	G	152.7	348633	G	G	G	G	9.2 26.5	G	G	G	G	40 10	EXTRA SMOOTH

REMARK: EYE TO SKY	COLOR CODE (TOP/BACK) EAKA509 : HEARTWOOD (Red Brown) (Z7340 PvdF)(JW13R) / BROWN(S9130) EB7A50C : HEARTWOOD (Red Brown) (Z7340 PvdF)(JW13R) / BROWN(S9130) EB7A50D : HEARTWOOD (Red Brown) (Z7340 PvdF)(JW13R) / BROWN(S9130) EB7A50E : HEARTWOOD (Red Brown) (Z7340 PvdF)(JW13R) / BROWN(S9130) EB7A50H : HEARTWOOD (Red Brown) (Z7340 PvdF)(JW13R) / BROWN(S9130) EB7A50J : HEARTWOOD (Red Brown) (Z7340 PvdF)(JW13R) / BROWN(S9130) EAKA50E : 7620 WOOD (Yellow) (Z7340 PvdF)(JW03Y) / BROWN(S9130)
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<NOTE> ① : 11/11, 6mm ② : 100 ③ : H / 1Kg ④ : 2000 hrs	⑤ : 2000 hrs ⑥ : 5% HCl 48Hrs ⑦ : 5% NaOH 48 Hrs	T: TOP B: BACK G: GOOD GRS wt: GROSS wt	We hereby certify that the material herein has been made and tested in accordance with the above specification and the results of all test are acceptable.	CHIEF OF QUALITY CONTROL TEAM
--	--	--	--	---------------------------------------

MANUFACTURER: DONGKUK STEEL MILL CO., LTD. (DONGKUK STEEL) 102 SINSEON-RO, NAM-GU, BUSAN, KOREA ZIP 48481, TEL : 82-51-640-5114 Page : 1 / 3
 USS-G-0913-01 REV.2 MADE IN KOREA A4(210 X 297)



Drawing No. 1 Mill Certificate provided during sampling (1/3)

ORIGINAL

MILL TEST CERTIFICATE



DX DONGKUK STEEL

MESSRS. DONGKUK INTERNATIONAL, INC.
19750 MAGELLAN DR.
TORRANCE, CA 90502

DATE : 2022.11.25
MTC NO : UC1-1-221115-002
ORDER NO : E220929056
INVOICE NO : D20221115F002
L/C NO. : T/T MOORE SALES
P/O NO. : LPL202206005

COMMODITY : PREPAINTED 55% ALUMINUM-ZINC ALLOY COATED STEEL SHEETS IN COIL,
SPECIFICATION : ASTM A755,CS-B,AZM150

COIL NO.	SIZE	WEIGHT		CHEMICAL COMPOSITION(%)								HRD NESS	ERC HSEN	TENSILE TEST			AL-ZINC COATING (g/m²)	HEAT No.	①	②	③	④	⑤	⑥	⑦	⑧	SPANGLE		
		NET wt (KGS/LBS)	GRS wt (KGS/LBS)	X 1000										Y _P	TS	EL													
				C	Si	Mn	P	S	Al	B	HRB																	mm	%
030-00002 EAKA50G	0.0255" NOM X 48" X COIL	4,490 9,899	4,600 10,142	50	20	260	12	6	37	0	60.7	8.9	333	415	32.2	G	152.7	348633	G	G	G	G	9.2 26.5	G	G	G	G	40	EXTRA SMOOTH
030-00003 EAKA50J	0.0255" NOM X 48" X COIL	1,300 2,867	1,410 3,109	50	20	260	12	6	37	0	60.7	8.9	333	415	32.2	G	152.7	348633	G	G	G	G	9.2 26.5	G	G	G	G	40	EXTRA SMOOTH
030-00004 EAKA50R	0.0255" NOM X 48" X COIL	4,480 9,877	4,590 10,120	40	0	240	12	5	32	0	59.1	8.9	325	403	33.4	G	152.8	K5284	G	G	G	G	9.4 26.6	G	G	G	G	40	EXTRA SMOOTH
030-00005 EAKA50S	0.0255" NOM X 48" X COIL	4,480 9,877	4,590 10,120	40	0	240	12	5	32	0	59.1	8.9	325	403	33.4	G	152.8	K5284	G	G	G	G	9.4 26.6	G	G	G	G	40	EXTRA SMOOTH
030-00006 EAKA50T	0.0255" NOM X 48" X COIL	4,490 9,899	4,600 10,142	40	0	240	12	5	32	0	59.1	8.9	325	403	33.4	G	152.8	K5284	G	G	G	G	9.4 26.6	G	G	G	G	40	EXTRA SMOOTH
030-00007 EAKA50U	0.0255" NOM X 48" X COIL	4,480 9,877	4,590 10,120	40	0	240	12	5	32	0	59.1	8.9	325	403	33.4	G	152.8	K5284	G	G	G	G	9.4 26.6	G	G	G	G	40	EXTRA SMOOTH
030-00008 EAKA50V	0.0255" NOM X 48" X COIL	4,250 9,370	4,360 9,613	40	0	240	12	5	32	0	59.1	8.9	325	403	33.4	G	152.8	K5284	G	G	G	G	9.4 26.6	G	G	G	G	40	EXTRA SMOOTH

REMARK: EYE TO SKY

COLOR CODE (TOP/BACK)

EAKA50G : 7620 WOOD (Yellow) (Z7340 PVdF(JW03Y) / BROWN(S9130)
 EAKA50J : 7620 WOOD (Yellow) (Z7340 PVdF(JW03Y) / BROWN(S9130)
 EAKA50R : 7620 WOOD (Yellow) (Z7340 PVdF(JW03Y) / BROWN(S9130)
 EAKA50S : 7620 WOOD (Yellow) (Z7340 PVdF(JW03Y) / BROWN(S9130)
 EAKA50T : 7620 WOOD (Yellow) (Z7340 PVdF(JW03Y) / BROWN(S9130)
 EAKA50U : 7620 WOOD (Yellow) (Z7340 PVdF(JW03Y) / BROWN(S9130)
 EAKA50V : 7620 WOOD (Yellow) (Z7340 PVdF(JW03Y) / BROWN(S9130)

<NOTE>

① : 11/11, 6mm
② : 100
③ : H / 1Kg
④ : 2000 hrs

⑤ : 2000 hrs
⑥ : 5% HCl 48Hrs
⑦ : 5% NaOH 48 Hrs

T: TOP
B: BACK
G: GOOD
GRS wt: GROSS wt

We hereby certify that the material herein has been made and tested in accordance with the above specification and the results of all test are acceptable.

CHIEF OF QUALITY CONTROL TEAM

최익석

MANUFACTURER: DONGKUK STEEL MILL CO., LTD. (DONGKUK STEEL) 102 SINSEON-RO, NAM-GU, BUSAN, KOREA ZIP 48481, TEL : 82-51-640-5114

USS-G-0913-01 REV.2

Page : 2 / 3

MADE IN KOREA A4(210 X 297)



Drawing No. 2
Mill Certificate provided during sampling (2/3)

ORIGINAL

MILL TEST CERTIFICATE



DX DONGKUK STEEL

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TORRANCE, CA 90502

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COMMODITY : PREPAINTED 55% ALUMINUM-ZINC ALLOY COATED STEEL SHEETS IN COIL,
SPECIFICATION : ASTM A755,CS-B,AZM150

COIL NO.	SIZE	WEIGHT		CHEMICAL COMPOSITION(%)								HARD NESS	ERC HSEN	TENSILE TEST			AL-ZINC COATING (g/m²)	HEAT No.	①	②	③	T/B	④	⑤	⑥	⑦	⑧	SPANGLE			
		NET wt (KGS/LBS)	GRS wt (KGS/LBS)	X 1000										N/m²	%	EL													SURFACE FINISHING		
				C	Si	Mn	P	S	Al	B	HRB																			mm	YP
030-0009 EAKA50X	0.0255" NOM X 48" X COIL	3,850 8,488	3,960 8,731	40	10	250	14	4	31	0	61	8.9	331	410	32.1	G	152.7	K5385	G	G	G	G	9.4 25.0	G	G	G	G	40	10	EXTRA SMOOTH	
030-0010 EAKA50Y	0.0255" NOM X 48" X COIL	3,860 8,510	3,970 8,753	40	10	250	14	4	31	0	61	8.9	331	410	32.1	G	152.7	K5385	G	G	G	G	9.4 25.0	G	G	G	G	40	10	EXTRA SMOOTH	
030-0011 EAKA50Z	0.0255" NOM X 48" X COIL	3,850 8,488	3,960 8,731	40	10	250	14	4	31	0	61	8.9	331	410	32.1	G	152.7	K5385	G	G	G	G	9.4 25.0	G	G	G	G	40	10	EXTRA SMOOTH	
030-0012 EAKA510	0.0255" NOM X 48" X COIL	3,860 8,510	3,970 8,753	40	10	250	14	4	31	0	61	8.9	331	410	32.1	G	152.7	K5385	G	G	G	G	9.4 25.0	G	G	G	G	40	10	EXTRA SMOOTH	
030-0013 EAKA511	0.0255" NOM X 48" X COIL	3,790 8,356	3,900 8,599	40	10	250	14	4	31	0	61	8.9	331	410	32.1	G	152.7	K5385	G	G	G	G	9.4 25.0	G	G	G	G	40	10	EXTRA SMOOTH	
TOTAL 19 COIL		69,810	71,900																												
		153,912	158,525																												
REMARK:												EYE TO SKY															COLOR CODE (TOP/BACK) EAKA50X : 7620 WOOD (Yellow) (Z7340 PVdF)(JW03Y) / BROWN(S9130) EAKA50Y : 7620 WOOD (Yellow) (Z7340 PVdF)(JW03Y) / BROWN(S9130) EAKA50Z : 7620 WOOD (Yellow) (Z7340 PVdF)(JW03Y) / BROWN(S9130) EAKA510 : 7620 WOOD (Yellow) (Z7340 PVdF)(JW03Y) / BROWN(S9130) EAKA511 : 7620 WOOD (Yellow) (Z7340 PVdF)(JW03Y) / BROWN(S9130)				
<NOTE>		① : 11/11, 6mm ② : 100 ③ : H / 1Kg ④ : 2000 hrs		⑤ : 2000 hrs ⑥ : 5% HCl 48hrs ⑦ : 5% NaOH 48 Hrs		T : TOP B : BACK G : GOOD GRS wt : GROSS wt		We hereby certify that the material herein has been made and tested in accordance with the above specification and the results of all test are acceptable.								CHIEF OF QUALITY CONTROL TEAM 최익석															

MANUFACTURER: DONGKUK STEEL MILL CO., LTD. (DONGKUK STEEL) 102 SINSEON-RO, NAM-GU, BUSAN, KOREA ZIP 48481, TEL : 82-51-640-5114
USS-G-0913-01 REV.2

Page : 3 / 3
MADE IN KOREA A4(210 X 297)



Drawing No. 3
Mill Certificate provided during sampling (3/3)

Appendix C - Data

LAPA0563124-39, ASTM C1513-18 Section 6.1 per SAE J78 Section 3.1 TEST (FINAL)
 Or

ICC NTA

SUMMARY DATA
 ASTM C1513-18 Section 6.1 per SAE J78 Section 3.1
 Dimensional Analysis of Self Tapping, Drilling Screws
 Modified for Custom Dimension Verification

General:
 Client: LUX Architectural Products
 Job Number: LAPA053124-39
 Test Location: ICC-NTA
Nappanee, Indiana
 Test Variable: Tested 1/1/8-in Pan Head Screws

Date Received: 7/22/2024
 Construction Date: 8/2/2024
 Constructed/Tested By: Adam Polhemus
 Witnessed By: Joe Springer

Test Modifications: None

Product Description:
 Manufacturer: LUX Architectural Products
 Trade Name/Designation: 1-1/8-in. #8 Pan Head Screw
 Material / Construction Description: 1-1/8-in. #8 Pan Head Screw

Nominal Dimensions: 0.3675-in. wide x 1.125-in. long x 0.118-in. thick

Ambient Conditions:
 Ambient Temp.: 72.3° F
 Ambient R.H.: 46.2% R.H.
 Sensor Asset No.: 00587

Apparatus: Asset No.
 Calipers: 00691

Test Data:
 Test Date: 8/2/2024

Feature	Average Dimension Value (in.)				
	162878	162879	162880	162881	162882
1 Head Height	0.109	0.118	0.109	0.107	0.122
2 Washer Diameter	0.360	0.364	0.372	0.374	0.365
3 Washer Thickness	0.029	0.034	0.032	0.031	0.034
4 Overall Length (under head to tip)	1.092	1.099	1.096	1.093	1.092
5 Thread Length	0.781	0.782	0.785	0.782	0.787
6 Major (Outside) Thread Dia.	0.167	0.166	0.168	0.168	0.167
7 Minor (Root) Thread Dia.	0.099	0.101	0.100	0.094	0.101
8 Shank Diameter	0.118	0.118	0.119	0.119	0.119
9 Full length	1.201	1.217	1.205	1.200	1.214

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SUMMARY DATA
ASTM E0008-16a Standard Test Methods for
Tensile Properties of Metallic Materials

Test Data:

Test Date:	7/29/2024	Ambient Temp.:	72.3	deg. F
Average Actual Stress Rate:	55,000	psi/min.	Ambient RH:	49
Gage Length:	2.3	in.		%

Table A1: Tensile Test Results^a

Specimen No.	Yield Stress	Tensile Strength	Elastic Modulus	Yield Point Elongation	Elong. at Break	Coated Thickness	Un-Coated Thickness
	F _y (ksi)	F _u (ksi)	E (ksi)	YPE (%)	(in.)	(in.)	(in.)
162819	52.5	58.2	27,500	0.202	0.550	0.0252	0.0233
162820	52.5	58.0	28,652	0.200	0.615	0.0251	0.0233
162821	51.9	57.6	28,441	0.196	0.584	0.0251	0.0234
Max	52.5	58.2	28,652	0.202	0.615	0.0252	0.0234
Min	51.9	57.6	27,500	0.196	0.550	0.0251	0.0233
Avg	52.3	57.9	28,197	0.199	0.583	0.0251	0.0233
St. Dev.	0.3	0.3	614	0.003	0.033	0.0001	0.0001

^aResults based on measured base metal dimensions

F_y = 52.3 ksi 0.02% Offset
F_u = 57.9 ksi
F_u/F_y = 1.11
% Elong. At Break = 25.9%

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SUMMARY DATA
ASTM E0330-02, -02(2010), and -14
Standard Test Method for Structural Performance of Exterior Windows, Doors,
Skylights and Curtains Walls by Uniform Static Air Pressure Difference (Procedure B)

General:

Client: LUX Architectural Products
Job Number: LAPA053124-41

Test Location: NTA, Inc.
Nappanee, Indiana

Specimen Description:

Date Received: 7/11/2024
General Construction 4'1 1/2" x 5'11" frame, 24' OC, 7/16-inch thick exposure 1 OSB sheathing (24/16 Rated) 4-ft x 5-ft, Top and
Description: Bottom plate to studs- 0.162-in. x 3-1/2-in. Smooth Shank Nail, Sheathing to framing- 0.113-in. x 2-in. Smooth
Shank Nails, Siding panels to Sheathing- 1-1/8-inch long #8 truss-head screws

Test Param Test Load: 60 psf
Number of Load Increments: 6
Support Conditions: Supported 4-in from bottom and top of frame.

Chamber Pressure Differential: Negative
Specimen Pressure (in-use): Positive

Table A1: Overall Test Results

Average Ultimate Pressure (psf)	Average Deflections, Gauges B-(D+E)/2									
	Increment 1 (in.)	Increment 2 (in.)	Increment 3 (in.)	Increment 4 (in.)	Increment 5 (in.)	Increment 6 (in.)	Increment 7 (in.)	Increment 8 (in.)	Increment 9 (in.)	Increment 10 (in.)
86	0.066	0.134	0.192	0.271	0.352	0.427	N/A	N/A	N/A	N/A

Test Modification(s): None.

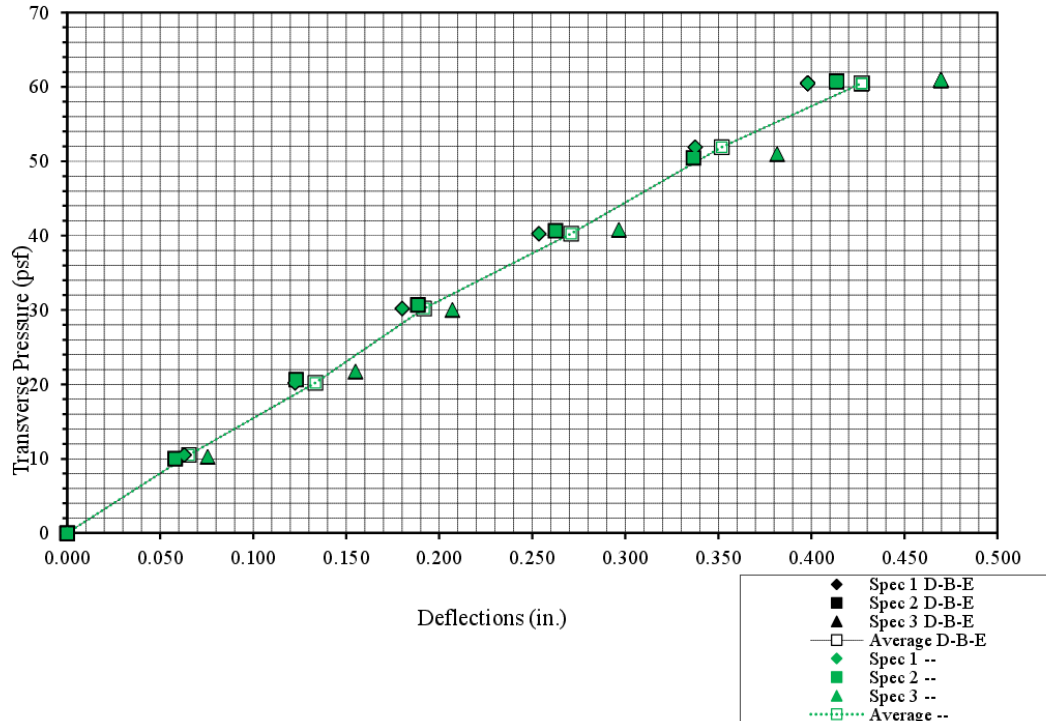
Pressures at Deflection Limits ^a										
Limit (L=Span)	Deflection (in.)	For Span D-B-E, 64-in.				For Span --, -in.				
		Pressure (psf)				Deflection (in.)	Pressure (psf)			
		Spec. 1	Spec. 2	Spec. 3	Average		Spec. 1	Spec. 2	Spec. 3	Average
L/600	0.107	25.5	27.5	27.2	26.7	0.0	0.0	0.0	0.0	0.0
L/480	0.133	32.2	34.0	33.3	33.2	0.0	0.0	0.0	0.0	0.0
L/360	0.178	41.3	44.2	42.4	42.6	0.0	0.0	0.0	0.0	0.0
L/240	0.267	--	--	60.6	--	0.0	0.0	0.0	0.0	0.0
L/180	0.356	--	--	--	--	0.0	0.0	0.0	0.0	0.0
L/120	0.533	--	--	--	--	0.0	0.0	0.0	0.0	0.0
L/90	0.711	--	--	--	--	0.0	0.0	0.0	0.0	0.0

^a Interpolated from test data. Based on Net Deflection on calculated as dial gauges B-(A+C)/2 or B-(D+E)/2.

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SUMMARY DATA
ASTM E0330-02, -02(2010), and -14
Standard Test Method for Structural Performance of Exterior Windows, Doors,
Skylights and Curtains Walls by Uniform Static Air Pressure Difference (Procedure B)

Pressure vs. Deflection



Net Deflections are Graphed (mid-span minus supports)

Apparatus: Asset No.
Moisture Meter: 00830
Balance: n/a
Length Measure: 02462

Specimen	Ultimate Pressure (psf)	% Diff. from Av. (%)
1	79	-7.9
2	97	12.5
3	82	-4.6
Average:	86	--

Dial Gauge Locations:

Gauge A: At Midspan on the first stud.
Gauge B: At Midspan, Center of the first bay on siding.
Gauge C: At Midspan on the center stud.
Gauge D: 4-3/8" From top on center stud.
Gauge E: 4-3/8" From bottom on center stud.
Gauge F: n/a

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SUMMARY DATA
ASTM E0330-02, -02(2010), and -14
Standard Test Method for Structural Performance of Exterior Windows, Doors,
Skylights and Curtains Walls by Uniform Static Air Pressure Difference (Procedure B)

Specimen 1

General:	Ambient Conditions:	Apparatus:	Asset No.
Specimen No.: 163199	Ambient Temp.: 77.7 deg. F	Manometer:	02180
Test Date: 10/25/2024	Ambient R.H.: 30.6%	Vacuum Table:	02170
Performed By: Corissa Frisbie	Sensor Asset No.: 00725	Timing Device:	02948
Witnessed By: Joe Springer		Deflection Gauge A:	02365
		Deflection Gauge B:	02185
		Deflection Gauge C:	02186
		Deflection Gauge D:	02187
		Deflection Gauge E:	02188
		Deflection Gauge F:	--

Loading Conditions:
Specified Maximum Test Load: 60 psf
Chamber Pressure Differential: Negative
Specimen Pressure (in-use): Positive
Siding Material: 0 psf
Support Conditions: Supported 4-in from bottom and top of frame.
Test Variable(s): *None.*

Table A2: Specimen 1 Test Data

Load Stages	Applied Pressure (psf)	Member Deflection Readings ^a (in.)						Net Deflection B-(A+C)/2	Net Deflection E-(D+F)/2	Stage Duration (mm:ss)
		Gauge A	Gauge B	Gauge C	Gauge D	Gauge E	Gauge F			
Pre-Load (REF)	29.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0:20
	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2:30
Increment 1 (REF)	10.5	0.037	0.096	0.059	0.045	0.021	--	0.048	--	0:26
	0.0	0.000	0.001	0.000	0.000	0.001	--	0.001	--	2:37
Increment 2 (REF)	20.2	0.071	0.181	0.116	0.078	0.039	--	0.088	--	0:23
	0.0	0.003	0.004	0.001	0.001	0.002	--	0.002	--	2:43
Increment 3 (REF)	30.2	0.101	0.259	0.170	0.101	0.057	--	0.124	--	0:30
	0.0	0.005	0.007	0.003	0.002	0.003	--	0.003	--	2:29
Increment 4 (REF)	40.3	0.131	0.354	0.231	0.126	0.075	--	0.173	--	0:25
	0.0	0.008	0.018	0.006	0.004	0.005	--	0.011	--	2:33
Increment 5 (REF)	51.9	0.169	0.463	0.302	0.158	0.093	--	0.228	--	0:24
	0.0	0.013	0.035	0.010	0.009	0.007	--	0.024	--	2:37
Increment 6 (REF)	60.5	0.196	0.540	0.352	0.179	0.105	--	0.266	--	0:21
	0.0	0.017	0.052	0.015	0.014	0.008	--	0.036	--	2:08
Increment 7 (REF)	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
Increment 8 (REF)	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
Increment 9 (REF)	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
Increment 10 (REF)	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--

^a See page 1 for dial gauge location descriptions.

Ultimate Uniform Pressure: 79 psf **Duration of Specified Maximum Pressure: 49 seconds**
Failure Mode: Disengagement between panels

Observations during Test: Nothing to note.

Tape Use: *Tape and film were used to seal the specimen.*

Tape Influence: *The tape and or film did not influence the test results.*

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SUMMARY DATA
ASTM E0330-02, -02(2010), and -14
Standard Test Method for Structural Performance of Exterior Windows, Doors,
Skylights and Curtains Walls by Uniform Static Air Pressure Difference (Procedure B)
Specimen 2

General:	Ambient Conditions:	Apparatus:	Asset No.
Specimen No.: 163200	Ambient Temp.: 77.9 deg. F	Manometer:	02180
Test Date: 10/25/2024	Ambient R.H.: 34.7%	Vacuum Table:	02170
Performed By: Corissa Frisbie	Sensor Asset No.: 00725	Timing Device:	02948
Witnessed By: Joe Springer		Deflection Gauge A:	02365
		Deflection Gauge B:	02185
		Deflection Gauge C:	02186
		Deflection Gauge D:	02187
		Deflection Gauge E:	02188
		Deflection Gauge F:	--

Loading Conditions:
Specified Maximum Test Load: 60 psf
Chamber Pressure Differential: Negative
Specimen Pressure (in-use): Positive
Siding Material: 0 psf
Support Conditions: Supported 4-in from bottom and top of frame.
Test Variable(s): *None.*

Table A3: Specimen 2 Test Data

Load Stages	Applied Pressure (psf)	Member Deflection Readings ^a (in.)						Net Deflection B-(A+C)/2	Net Deflection E-(D+F)/2	Stage Duration (mm:ss)
		Gauge A	Gauge B	Gauge C	Gauge D	Gauge E	Gauge F			
Pre-Load	30.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0:17
(REF)	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2:47
Increment 1	10.0	0.035	0.092	0.064	0.041	0.027	--	0.043	--	0:22
(REF)	0.0	0.001	0.000	0.000	0.000	0.000	--	0.000	--	2:36
Increment 2	20.6	0.079	0.188	0.137	0.078	0.052	--	0.080	--	0:18
(REF)	0.0	0.000	0.000	0.000	0.000	0.000	--	0.000	--	2:41
Increment 3	30.7	0.116	0.278	0.202	0.106	0.073	--	0.119	--	0:13
(REF)	0.0	0.001	0.004	0.002	0.002	0.001	--	0.003	--	2:16
Increment 4	40.7	0.157	0.377	0.273	0.136	0.093	--	0.162	--	0:13
(REF)	0.0	0.003	0.016	0.004	0.003	0.003	--	0.013	--	2:57
Increment 5	50.5	0.197	0.474	0.340	0.167	0.108	--	0.206	--	0:13
(REF)	0.0	0.006	0.028	0.007	0.004	0.004	--	0.022	--	2:27
Increment 6	60.8	0.236	0.574	0.410	0.199	0.122	--	0.251	--	0:16
(REF)	0.0	0.009	0.574	0.010	0.009	0.005	--	0.565	--	2:28
Increment 7	--	--	--	--	--	--	--	--	--	--
(REF)	--	--	--	--	--	--	--	--	--	--
Increment 8	--	--	--	--	--	--	--	--	--	--
(REF)	--	--	--	--	--	--	--	--	--	--
Increment 9	--	--	--	--	--	--	--	--	--	--
(REF)	--	--	--	--	--	--	--	--	--	--
Increment 10	--	--	--	--	--	--	--	--	--	--
(REF)	--	--	--	--	--	--	--	--	--	--

^a See page 1 for dial gauge location descriptions.

Ultimate Uniform Pressure: 97 psf Duration of Specified Maximum Pressure: 48.5 seconds
Failure Mode: *Disengagement between panels*

Observations during Test: *Nothing to note.*

Tape Use: *Tape and film were used to seal the specimen.*

Tape Influence: *The tape and or film did not influence the test results.*

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SUMMARY DATA
ASTM E0330-02, -02(2010), and -14
Standard Test Method for Structural Performance of Exterior Windows, Doors,
Skylights and Curtains Walls by Uniform Static Air Pressure Difference (Procedure B)
Specimen 3

General:	Ambient Conditions:	Apparatus:	Asset No.
Specimen No.: 163201	Ambient Temp.: 72.3 deg. F	Manometer:	02180
Test Date: 10/28/2024	Ambient R.H.: 27.9%	Vacuum Table:	02170
Performed By: Corissa Frisbie	Sensor Asset No.: 00725	Timing Device:	02948
Witnessed By: Joe Springer		Deflection Gauge A:	02365
		Deflection Gauge B:	02185
		Deflection Gauge C:	02186
		Deflection Gauge D:	02187
		Deflection Gauge E:	02188
		Deflection Gauge F:	--

Loading Conditions:
Specified Maximum Test Load: 60 psf
Chamber Pressure Differential: Negative
Specimen Pressure (in-use): Positive
Siding Material: 0 psf
Support Conditions: Supported 4-in from bottom and top of frame.
Test Variable(s): *None.*

Table A4: Specimen 3 Test Data

Load Stages	Applied Pressure (psf)	Member Deflection Readings ^a (in.)						Net Deflection B-(A+C)/2	Net Deflection E-(D+F)/2	Stage Duration (mm:ss)
		Gauge A	Gauge B	Gauge C	Gauge D	Gauge E	Gauge F			
Pre-Load	30.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0:13
(REF)	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3:16
Increment 1	10.3	0.085	0.126	0.086	0.062	0.039	--	0.041	--	0:40
(REF)	0.0	0.001	0.002	0.001	0.001	0.001	--	0.001	--	2:30
Increment 2	21.7	0.126	0.235	0.171	0.095	0.065	--	0.087	--	0:36
(REF)	0.0	0.003	0.003	0.001	0.001	0.001	--	0.001	--	3:06
Increment 3	30.0	0.154	0.308	0.228	0.113	0.089	--	0.117	--	0:26
(REF)	0.0	0.002	0.003	0.002	0.000	0.002	--	0.001	--	2:19
Increment 4	40.8	0.191	0.418	0.305	0.138	0.105	--	0.170	--	0:26
(REF)	0.0	0.003	0.012	0.001	0.005	0.004	--	0.010	--	3:37
Increment 5	51.0	0.225	0.520	0.376	0.159	0.118	--	0.220	--	0:29
(REF)	0.0	0.012	0.021	0.000	0.015	0.005	--	0.015	--	2:49
Increment 6	60.9	0.262	0.625	0.451	0.181	0.130	--	0.269	--	0:26
(REF)	0.0	0.016	0.036	0.002	0.019	0.007	--	0.027	--	3:07
Increment 7	--	--	--	--	--	--	--	--	--	--
(REF)	--	--	--	--	--	--	--	--	--	--
Increment 8	--	--	--	--	--	--	--	--	--	--
(REF)	--	--	--	--	--	--	--	--	--	--
Increment 9	--	--	--	--	--	--	--	--	--	--
(REF)	--	--	--	--	--	--	--	--	--	--
Increment 10	--	--	--	--	--	--	--	--	--	--
(REF)	--	--	--	--	--	--	--	--	--	--

^a See page 1 for dial gauge location descriptions.

Ultimate Uniform Pressure: 82 psf Duration of Specified Maximum Pressure: 36 seconds
Failure Mode: *Disengagement between panels*

Observations during Test: *Nothing to note.*

Tape Use: *Tape and film were used to seal the specimen.*

Tape Influence: *The tape and or film did not influence the test results.*

This summary contains only data arrived at after employing the specific test procedures listed herein. This summary data might not include all reporting requirements of the test standard. The data herein does not constitute a recommendation for, endorsement of, or certification of the product or material tested. NTA, Inc. makes no warranty, expressed or implied, except that the test has been performed, and data prepared, based upon the specimen furnished by the client. Extrapolation of data, from the test data provided herein, to the batch or lot from which the specimens were obtained may not correlate and should be interpreted with extreme caution. NTA, Inc. assumes no responsibility for variations in quality, composition, appearance, performance, or other features of similar materials produced by the client, other persons, or under conditions over which NTA, Inc. has no control. NTA, Inc. has issued this data summary for the exclusive use of the client to whom it is addressed. Any use or duplication of this summary shall not be made without their consent. This summary shall only be reproduced in its entirety.

Appendix D - Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	11/13/2024	N/A	Original report issue
1	01/17/2025	03	In section 1.3, "Product Description", the statement, "Only the 6-in. width was tested throughout this report" was added.
2	03/11/2025	01	Title of Report was changed to ASTM Procedure B, ESR Certification.
2	03/11/2025	09	Condition of Acceptance section was removed.
2	03/11/2025	10	Allowable Load column deleted from results.