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ENVISION OUTDOOR LIVING PRODUCTS LLC

TEST REPORT

SCOPE OF WORK
STRUCTURAL PERFORMANCE TESTING ON A 96 IN BY 42 IN ALUMINUM GUARDRAIL SYSTEM

REPORT NUMBER
S4594.01-119-19 R0

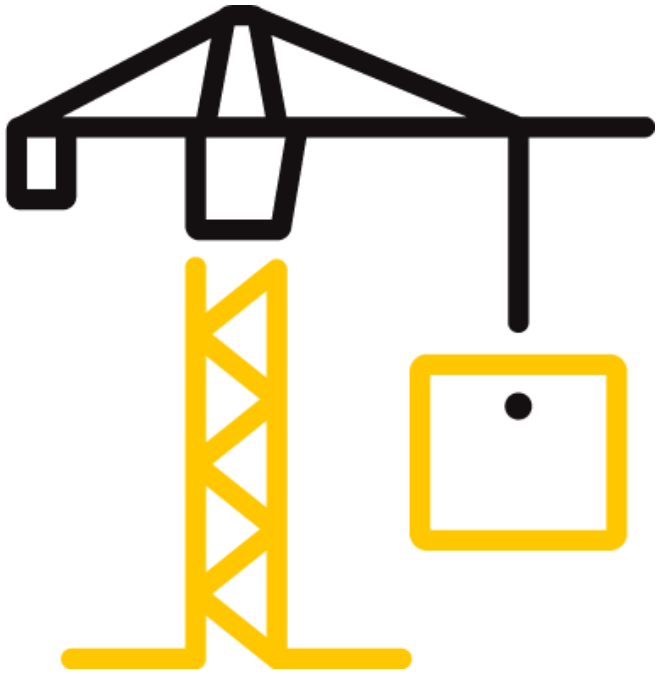
TEST DATE
03/25/25

ISSUE DATE
08/26/25

RECORD RETENTION END DATE
03/25/29

PAGES
23

DOCUMENT CONTROL NUMBER
RT-R-AMER-Test-2846 (02/09/18)



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TEST REPORT FOR ENVISION OUTDOOR LIVING PRODUCTS LLC

Report No.: S4594.01-119-19 R0
Date: 08/26/25

REPORT ISSUED TO

ENVISION OUTDOOR LIVING PRODUCTS LLC
53 Eby Chiques Road
P.O. Box 37
Mount Joy, PA 17552

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company), dba Intertek Building & Construction (B&C) was contracted by Envision Outdoor Living Products LLC to perform structural performance testing in accordance with the 2024 IBC on their aluminum guardrail system. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens (where required by Certification or Accreditation bodies), or other pertinent project documentation, will be retained for the entire test record retention period.

SECTION 2

SUMMARY OF TEST RESULTS

The specimen met the 2024 IBC design load performance requirements.

For INTERTEK B&C:

COMPLETED BY:	Adam J. Schrum	**REVIEWED BY:**	Scott T. Gladfelter, P.E.
TITLE:	Project Manager	**TITLE:**	Senior Project Engineer
SIGNATURE:	Digitally Signed by: Adam J. Schrum	**SIGNATURE:**	Digitally Signed by: Scott Gladfelter
DATE:	08/26/25	**DATE:**	08/26/25

AJS:stg/aas

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SECTION 3
TEST METHODS

The specimen was evaluated in accordance with the following:

2024, *International Building Code®*, International Code Council

2024, *International Residential Code®*, International Code Council

Structural tests were performed according to Chapter 17 (Structural Tests and Special Inspections) of IBC 2015.

Limitations

All tests performed were to evaluate structural performance of the guardrail assembly to carry and transfer imposed loads to the supporting structure. The test specimens evaluated included the infill, rails, rail brackets, and support posts. Anchorage of support posts to the supporting structure is not included in the scope of this testing and would need to be evaluated separately.

SECTION 4
MATERIAL SOURCE/INSTALLATION

Test samples were provided by the client. Representative samples of the test specimen will be retained by Intertek B&C for a minimum of four years from the test completion date.

The guardrail assembly was installed and tested as a single railing section by directly securing the posts into a rigid steel test fixture, which rigidly restrained the posts from deflecting.

SECTION 5
EQUIPMENT

The guardrail was tested in a self-contained structural frame designed to accommodate anchorage of the guardrail assembly and application of the required test loads. The specimens were loaded using an electric winch mounted to a rigid steel test frame. High strength steel cables, nylon straps, and load distribution beams were used to impose test loads on the specimens. Applied load was measured using an electronic load cell located in-line with the loading system. Electronic linear motion transducers mounted to an independent reference frame were located to record movement of reference points on the guardrail system components (ends and mid-point) to determine net component deflections. See photographs in Section 11 for individual test setups.

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SECTION 6
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Craig Barkume	Envision Outdoor Living Products LLC
Jeffrey C. Jones	Intertek B&C
Adam J. Schrum	Intertek B&C

SECTION 7
TEST PROCEDURE

Each test specimen was inspected prior to testing to verify size and general condition of the materials, assembly, and installation. No potentially compromising defects were observed prior to testing.

An initial load, not exceeding 50% of design load, was applied and transducers were zeroed. Load was then applied at a steady uniform rate until reaching 2.0 times design load in no less than 10 seconds. After reaching 2.0 times design load, the load was released. After allowing a minimum period of one minute for stabilization, load was reapplied to the initial load level used at the start of the loading procedure, and deflections were recorded and used to analyze recovery. Load was then increased at a steady uniform rate until reaching 2.5 times design load or until failure occurred. The testing time was continually recorded from the application of initial test load until the ultimate test load was reached.

Deflection and permanent set were component deflections relative to their end-points; they were not overall system displacements. All loads and displacement measurements were horizontal, unless noted otherwise.

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Date: 08/26/25

SECTION 8
TEST SPECIMEN DESCRIPTION

Envision Outdoor Living Products LLC provided the fully-assembled test specimens with the following details:

TYPE	Aluminum guardrail system
OVERALL DIMENSIONS	96 in wide by 42 in high
TOP/BOTTOM RAIL	1-1/2 in wide by 1-1/4 in high 6063-T5 aluminum extrusion with 0.065/0.085 in wall
TOP RAIL CAP	1-1/2 in wide by 1-1/8 in high domed 6063-T5 aluminum extrusion with 0.050/0.100 in wall
BOTTOM RAIL CAP	1-1/2 in wide by 15/16 in high 6063-T5 aluminum extrusion with 0.050 in wall
PICKETS (IN-FILL)	5/8 in square 6063-T5 aluminum extrusion with 0.040 in wall
RAIL BRACKETS	1-11/16 in wide by 1 in high rectangular 6063-T5 aluminum saddle brackets
FASTENERS	#10 by 1" self-drilling, pan-head, Torx drive screws (two in bracket/post); #8 by 1/2" self-drilling, flat-head, Philips screws (two in rail/bracket)
POST	4 in square 6063-T5 aluminum extrusion with 0.080 in wall
SUPPORT BLOCK	3/4 in square 6063-T5 aluminum extrusion with 0.040 in wall with one longitudinal "T" chase in each corner
SUPPORT BLOCK BRACKET	21/32 in diameter by 3/4 in high PVC extrusion

Fastening Details

BRACKET TO TOP RAIL	Two #8 by 1/2" self-drilling, countersunk head, Phillips drive screws into each longitudinal edge and one #10 by 1" self-drilling, pan-head, star drive screw through the bottom of the rail
BRACKET TO BOTTOM RAIL	Two #8 by 1/2" self-drilling, countersunk head, Phillips drive screws into each longitudinal edge
BRACKET TO POST	Two #10 by 1" self-drilling, pan-head, star drive screws
PICKET TO RAIL	No mechanical connection; slip fit
SUPPORT BLOCK BRACKET TO RAIL	One #10 by 1" self-drilling, pan-head, star drive screw
SUPPORT BLOCK BRACKET TO SUPPORT BLOCK	No mechanical connection; slip fit

Drawings are included in Section 12 to verify the overall dimensions and other pertinent information of the tested product, its components, and any constructed assemblies.

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SECTION 9
TEST RESULTS

Key to Test Results Tables:

Load Level: Target test load

Test Load: Actual applied load at the designated load level (target). Where more than one value is reported, the test load was the range (min.-max.) that was held during the time indicated in the test.

Elapsed Time (E.T.): The amount of time into the test with zero established at the beginning of the loading procedure. Where more than one value is reported, the time was the range (start-end) that the designated load level was reached and sustained.

8 ft (96 in) by 42 in Aluminum Guardrail System
IBC - All Use Groups

Test No. 1 - 03/25/25
Design Load: 50 lb / 1 square ft at Center of In-fill

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
Initial Load	25	00:00	0.00
2.0x Design Load	104	00:10	0.96
Initial Load	26	01:24	0.04
96% Recovery from 2.0 x Design Load			
2.5x Design Load	130	01:31	Achieved Load without Failure

Test No. 2 - 03/25/25
Design Load: 50 lb / 1 square ft at Bottom of In-fill (on 3 Pickets)

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	DISPLACEMENT (in)
Initial Load	25	00:00	0.00
2.0x Design Load	103	00:07	0.70
Initial Load	26	01:19	0.00
100% Recovery from 2.0 x Design Load			
2.5x Design Load	142	01:23	Achieved Load without Failure

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TEST REPORT FOR ENVISION OUTDOOR LIVING PRODUCTS LLC
Report No.: S4594.01-119-19 R0
Date: 08/26/25

Test No. 3 - 03/25/25
Design Load: 50 lbf x (96 in ÷ 12 in/ft) = 400 lb Horizontal Uniform [2] Load on Top Rail

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	RAIL DISPLACEMENT (in)			
			END	MID	END	NET [1]
Initial Load	80	00:00	0.00	0.00	0.00	0.00
2.0x Design Load	805	00:49	0.11	5.70	0.13	5.58
Initial Load	83	02:20	0.01	1.67	0.00	1.66
70% Recovery from 2.0 x Design Load						
2.5x Design Load	1003	03:04	Achieved Load without Failure			

[1] Net displacement was mid-rail displacement relative to the rail at the support posts.

[1] Uniform load was simulated with four equally spaced loading points along the top rail

Test No. 4 - 03/25/25
Design Load: 50 lbf x (96 in ÷ 12 in/ft) = 400 lb Vertical Uniform [1] Load on Top Rail

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	RAIL DISPLACEMENT (in)
Initial Load	81	00:00	0.00
2.0x Design Load	812	00:33	0.13
Initial Load	80	02:01	0.01
892% Recovery from 2.0 x Design Load			
2.5x Design Load	1024	02:24	Achieved Load without Failure

[1] Uniform load was simulated with four equally spaced loading points along the top rail

Test No. 5 - 03/25/25
Design Load: 200 lb Horizontal Concentrated Load at Midspan of Top Rail

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	RAIL DISPLACEMENT (in)			
			END	MID	END	NET [1]
Initial Load	40	00:00	0.00	0.00	0.00	0.00
2.0x Design Load	405	00:35	0.05	3.16	0.10	3.09
Initial Load	45	02:00	0.00	0.10	0.00	0.10
97% Recovery from 2.0 x Design Load						
2.5x Design Load	503	02:30	Achieved Load without Failure			

[1] Net displacement was mid-rail displacement relative to the rail at the support posts.

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Date: 08/26/25

Test No. 6 - 03/25/25
Design Load: 200 lb Vertical Concentrated Load at Midspan of Top Rail

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	RAIL DISPLACEMENT (in)
Initial Load	41	00:00	0.00
2.0x Design Load	433	00:11	0.18
Initial Load	45	01:31	0.01
94% Recovery from 2.0 x Design Load			
2.5x Design Load	503	01:40	Achieved Load without Failure

Test No. 7 - 03/25/25
Design Load: 200 lb Horizontal Concentrated Load at Ends of Top Rail (Brackets)

LOAD LEVEL [1]	TEST LOAD (lb)	E.T. (min:sec)	RAIL DISPLACEMENT (in)	
			RAIL END #1	RAIL END #2
Initial Load	80	00:00	0.00	0.00
2.0x Design Load	807	00:31	0.24	0.23
Initial Load	81	02:05	0.01	0.02
96% (Rail End #1) and 91% (Rail End #2) Recovery from 2.0 x Design Load				
2.5x Design Load	1012	02:35	Achieved Load without Failure	

[1] A spreader beam was used to impose loads on both ends of the railing system; therefore, loads were doubled.

Test No. 8 - 03/25/25
Design Load: 200 lb Vertical Concentrated Load at Ends of Top Rail (Brackets)

LOAD LEVEL [1]	TEST LOAD (lb)	E.T. (min:sec)	RAIL DISPLACEMENT (in)	
			RAIL END #1	RAIL END #2
Initial Load	81	00:00	0.00	0.00
2.0x Design Load	812	00:44	0.08	0.02
Initial Load	80	01:58	0.03	0.00
63% (Rail End #1) and 100% (Rail End #2) Recovery from 2.0 x Design Load				
2.5x Design Load	1040	02:26	Achieved Load without Failure	

[1] A spreader beam was used to impose loads on both ends of the railing system; therefore, loads were doubled.

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Date: 08/26/25

SECTION 10
CONCLUSION

Using performance criteria of withstanding an ultimate load of 2.5 times design load, the test results substantiate compliance with the design load requirements of the 2024 International Building Code as follows:

ALUMINUM GUARDRAIL SYSTEM	GUARDRAIL TYPE	INFILL TYPE	CODE OCCUPANCY CLASSIFICATION
8 ft (96 in) by 42 in	Level / In-line Application	5/8 in Square Picket	All Use Groups

Anchorage of support posts to the supporting structure is not included in the scope of this testing and would need to be evaluated separately.

SECTION 11
PHOTOGRAPHS

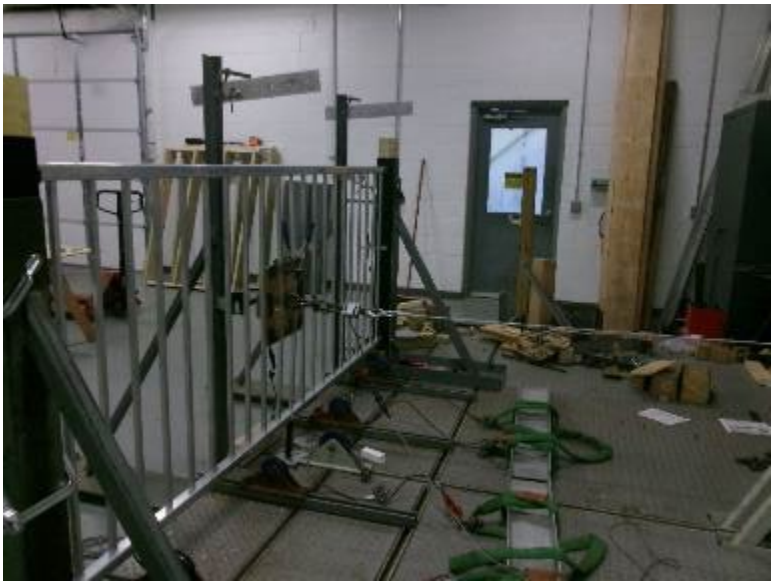

Photo No. 1
In-Fill Load Test at Center

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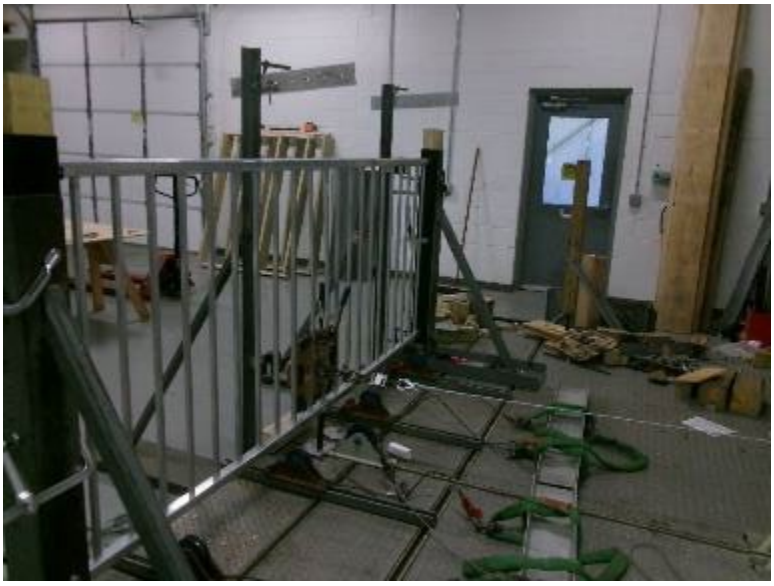

Photo No. 2
In-Fill Load Test at Bottom

Photo No. 3
Horizontal Uniform Load Test on Top Rail

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Photo No. 4
Vertical Uniform Load Test on Top Rail

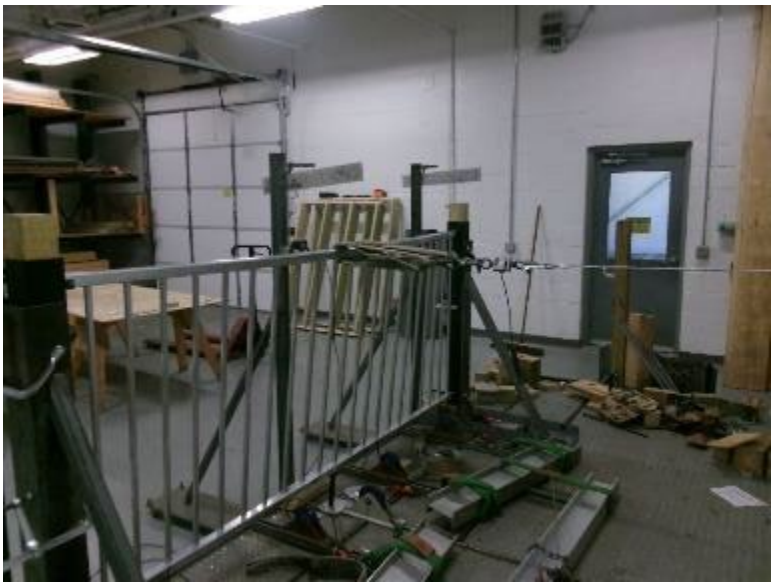

Photo No. 5
Horizontal Concentrated Load Test at Midspan of Top Rail

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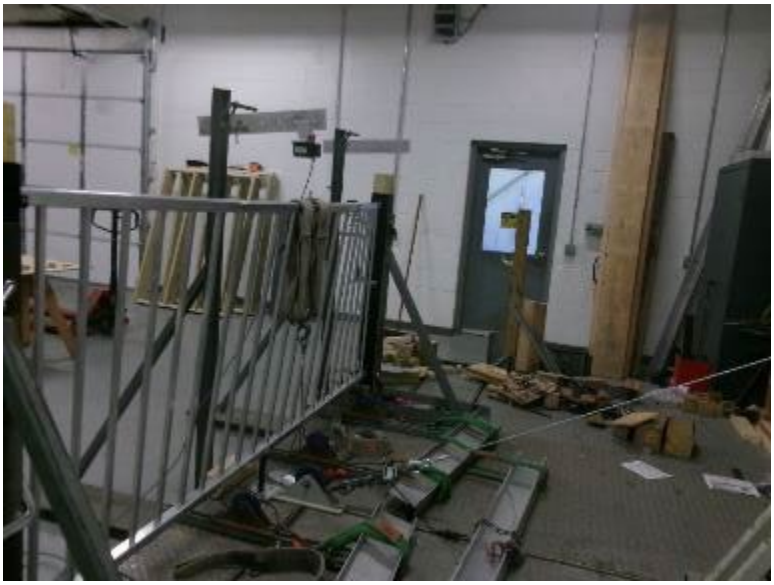

Photo No. 6
Vertical Concentrated Load Test at Midspan of Top Rail

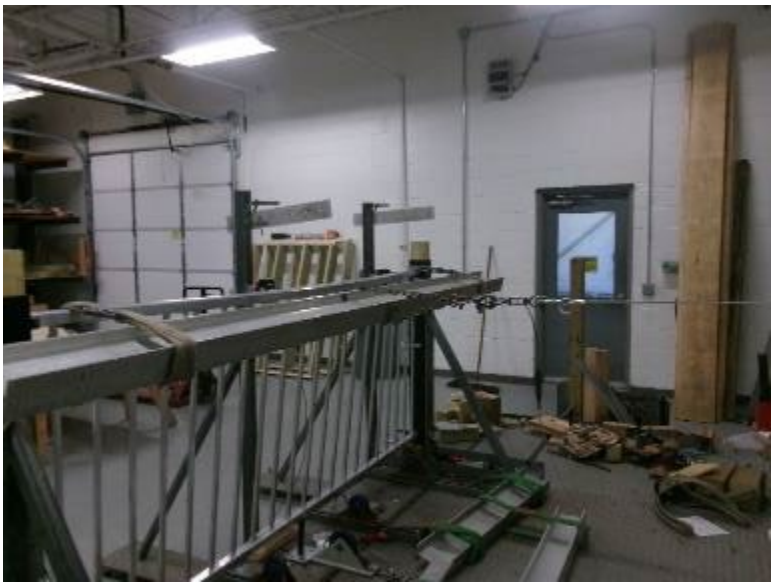

Photo No. 7
Horizontal Concentrated Load Test at Ends of Top Rail (Brackets)

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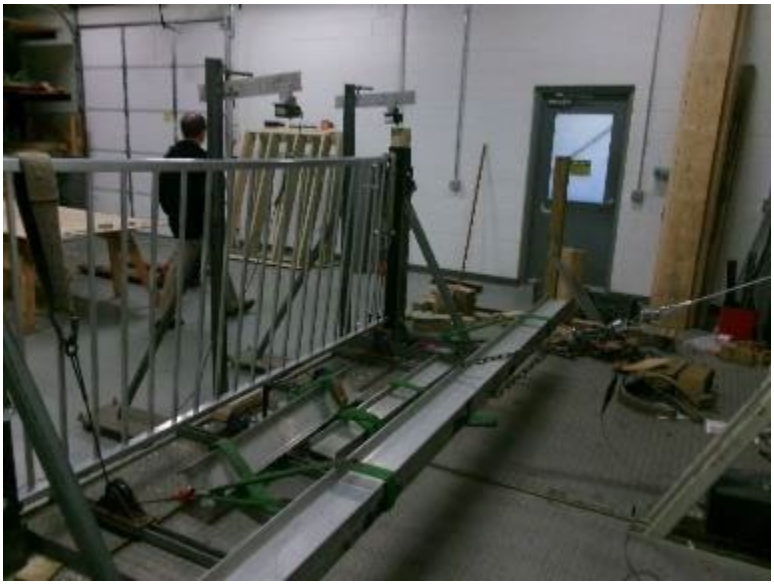
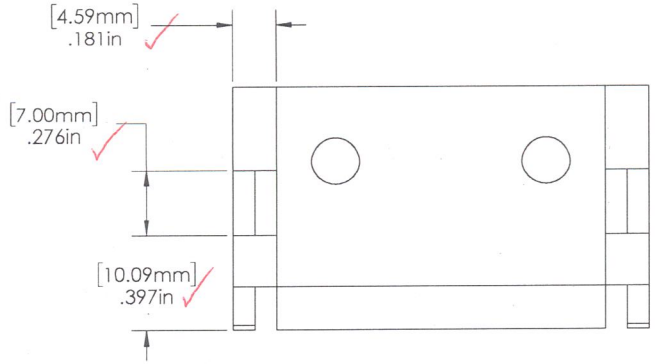
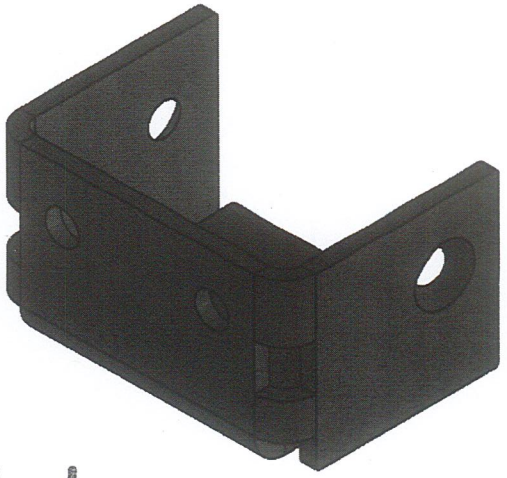


Photo No. 8
Vertical Concentrated Load Test at Ends of Top Rail (Brackets)

SECTION 12
DRAWINGS

The "As-Built" drawings, which follow, have been reviewed by Intertek B&C and are representative of the project reported herein. Project construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.





BACK

intertek

Test sample complies with these details.
Deviations are noted.

Report # 54594.01-119-19

Date 8/21/25 **Tech** AJS

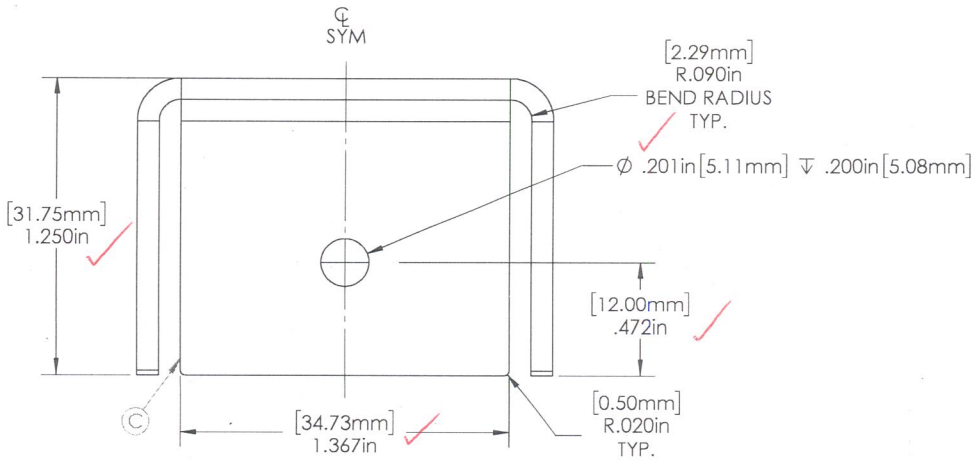
		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES [MM] TOLERANCES: LENGTHS: REFER TO TABLE 8-1 IN SECTION 8 OF ANSI H35.2 (PROPERTY OF THE AMERICAN NATIONAL STANDARDS INSTITUTE) ANGLES : ∠ ± 1°		NAME	DATE
			DRAWN	GVP	8/23/2023
			CHECKED		
			ENG APPR.		
			MFG APPR.		
			Q.A.		
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:		
		MATERIAL 5052-H32			
NEXT ASSY	USED ON	FINISH See Order Form			
APPLICATION		DO NOT SCALE DRAWING			

ALWOOD
DESIGN. MANUFACTURE. SUPPLY.

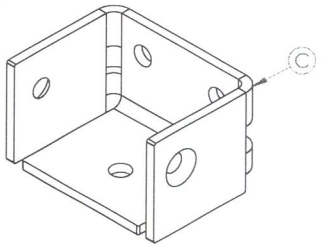
TITLE: Rail Mount Bracket

SIZE	DWG. NO.	REV
B	EVO-SM-000885-XX-C	C

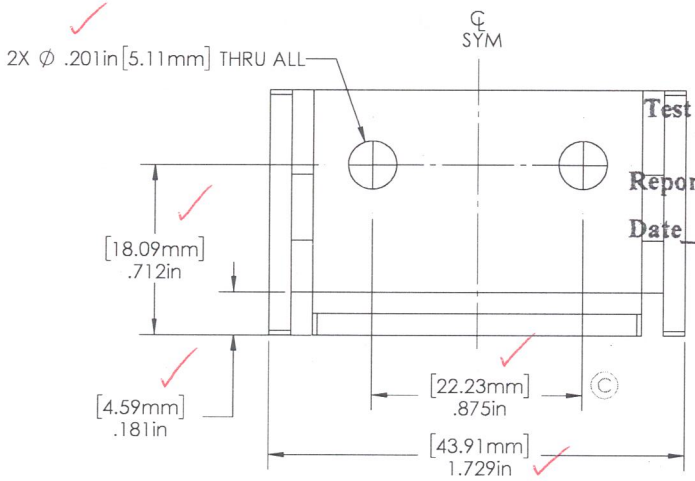
SCALE: 1:1 | WEIGHT: N/A | SHEET 3 OF 3



TOP



ISOMETRIC VIEW
SCALE 1:1



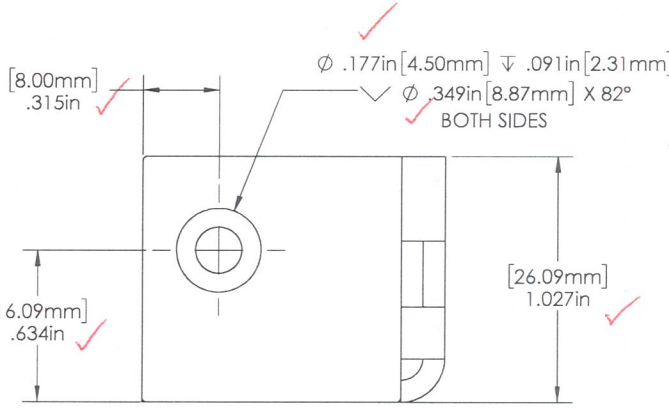
FRONT

intertek

Test sample complies with these details.
Deviations are noted.

Report # 54594.01-119-19

Date 8/21/25 Tech AJS



RIGHT

NOTES:

1. REFER TO CAD MODEL FOR UNSPECIFIED DIMENSIONS
2. CRITICAL DIMENSIONS ARE SHOWN WITHIN ⬭
3. REFERENCE DIMENSIONS ARE SHOWN WITHIN ( )
4. ALL DIMENSIONS INTERPRETED ACCORDING TO ASME Y14
5. USE MINIMUM BEND RADIUS AND MINIMUM RELIEF
6. BREAK ALL SHARP EDGES AND CORNERS

UNLESS OTHERWISE SPECIFIED:		
DIMENSIONS ARE IN INCHES [MM] TOLERANCES:		
LENGTHS: REFER TO TABLE 8-1 IN SECTION 8 OF ANSI H35.2 (PROPERTY OF THE AMERICAN NATIONAL STANDARDS INSTITUTE)		
ANGLES: ∠ ± 1°		
INTERPRET GEOMETRIC TOLERANCING PER:		
MATERIAL	5052-H32	
FINISH	See Order Form	
NEXT ASSY	USED ON	
APPLICATION	DO NOT SCALE DRAWING	

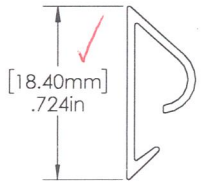
	NAME	DATE
DRAWN	GVP	8/23/2023
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

ALWOOD
DESIGN. MANUFACTURE. SUPPLY.

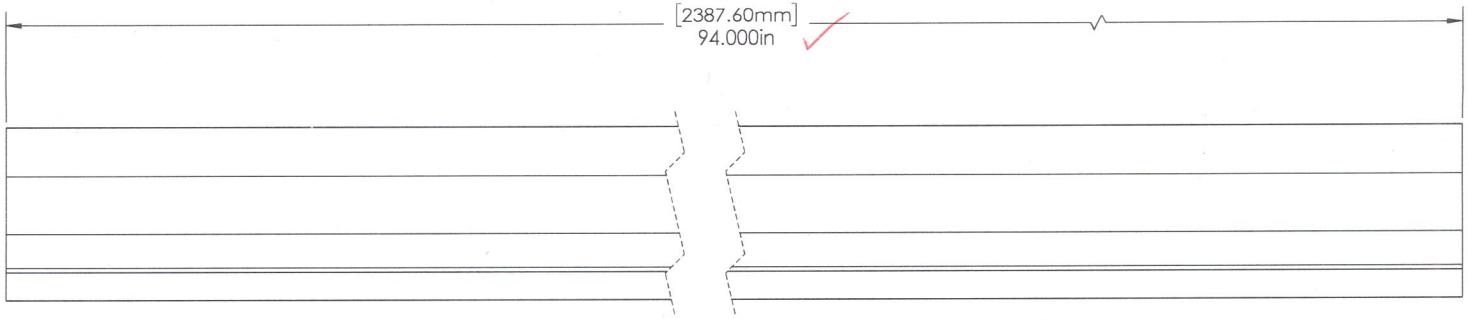
TITLE: Rail Mount Bracket

SIZE	DWG. NO.	REV
B	EVO-SM-000885-XX-C	C

SCALE: 2:1 | WEIGHT: N/A | SHEET 2 OF 3



FRONT



RIGHT
001172-96IN

intertek

Test sample complies with these details.
Deviations are noted.

Report # 54594.01-119-19

Date 8/21/25 Tech AJS

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES [MM] TOLERANCES:	DRAWN	GVP	1/26/2025
		LENGTHS: REFER TO TABLE 8-1 IN SECTION 8 OF ANSI H35.2 (PROPERTY OF THE AMERICAN NATIONAL STANDARDS INSTITUTE)	CHECKED		
		ANGLES : ∠ = ± 1°	ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL PVC Rigid	COMMENTS:		
NEXT ASSY	USED ON	FINISH See Order Form			
APPLICATION		DO NOT SCALE DRAWING			

ALWOOD
DESIGN. MANUFACTURE. SUPPLY.

TITLE: Insert, Friction Fit

SIZE	DWG. NO.	REV
B	EVO-PE-001172-XX-A	A

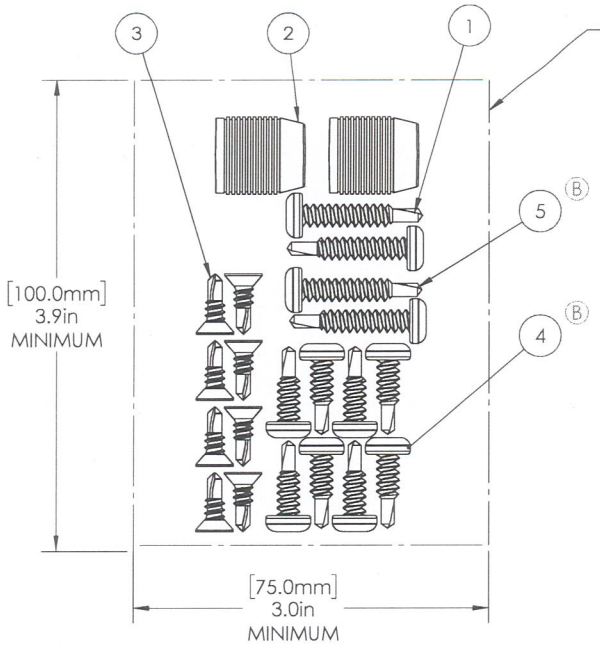
SCALE: 2:1 | WEIGHT: N/A | SHEET 3 OF 3

NOTES:

1. ALL TYPES OF PACKAGING ARE TO WITHSTAND HANDLING AND TRANSPORT SO PRODUCT IS NOT DAMAGED OR LOST
2. BULK PACKAGE MUST CONTAIN 100 SETS IN AN APPROPRIATELY SIZED BOX
3. PRODUCT LABEL MUST BE ATTACHED ON EACH PACKAGE
4. WHEN MULTIPLES OF THE STANDARD PACK IS IN A LARGER CONTAINER (SUCH AS BAGS IN A CARTON, OR CARTONS IN A CRATE) THEN ADDITIONAL LABELS ARE REQUIRED
5. PLACE LABELS ON TWO SIDES BUT NOT OPPOSITE TO EACH OTHER

BILL OF MATERIALS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. PER BAG
1	PFX-HW-000286-NA-A	T25-Drive, PH, #10 Drilling Screw x 1in, SS	2
2	PFX-MP-000299-BK-A	PFX Plastic Spacer, Flat	2
3	ADP-HW-000889-XX-A	PFH, #8 Drilling Screw x 0.5in, SS	8
4	ADP-HW-001090-XX-A	T25-Drive, PH, #10 Drilling Screw x 0.625in, SS	8
5	PFX-HW-000307-MU-A	T25-Drive, Painted PH, #10 Drilling Screw x 1in, SS	2



intertek

Test sample complies with these details.
Deviations are noted.

Report # 54594-01-119-19

Date 8/21/25 **Tech** AJS

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]
TOLERANCES:
MILLIMETERS: X = ±1, .X = ±.20, .XX = ±.10
INCHES: [.X = ± 0.1], [.XX = ±0.01], [.XXX = ±0.005]
ANGLES ∠ = ± 1°
FRACTIONS X/X = ±1/64
INTERPRET GEOMETRIC TOLERANCING PER:
MATERIAL: N/A
FINISH: N/A
NEXT ASSY | USED ON
APPLICATION | DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	GVP	1/3/2024
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

ALWOOD
DESIGN. MANUFACTURE. SUPPLY.

TITLE: Fasteners, Level Rail

SIZE	DWG. NO.	REV
B	EVO-PD-000946-XX-B	B

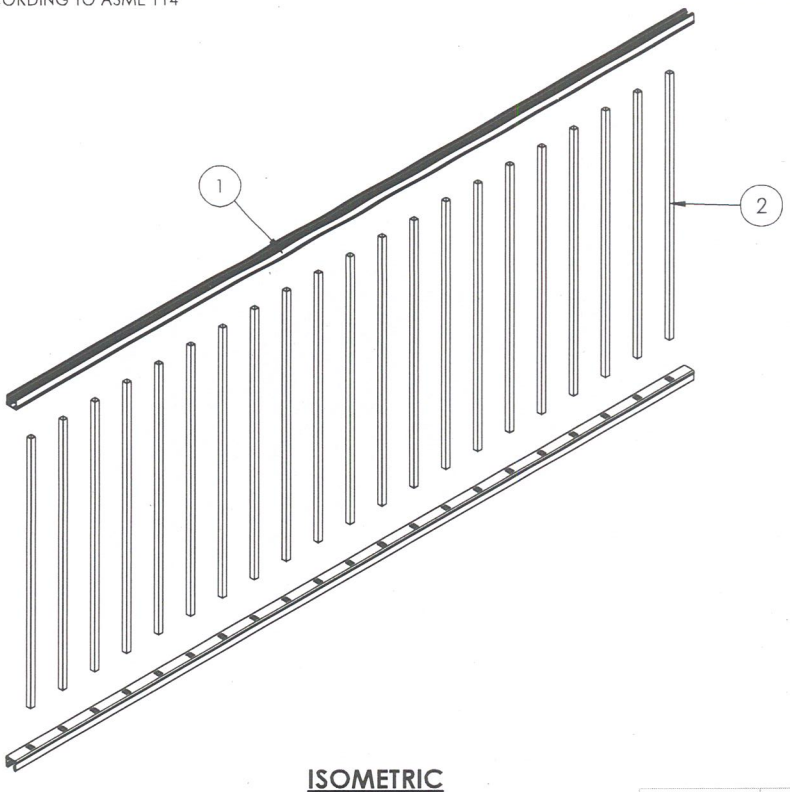
SCALE: 1:1 | WEIGHT: N/A | SHEET 2 OF 2

NOTES:

1. REFER TO CAD MODEL FOR UNSPECIFIED DIMENSIONS
2. CRITICAL DIMENSIONS ARE SHOWN WITHIN ⬭
3. REFERENCE DIMENSIONS ARE SHOWN WITHIN ( )
4. ALL DIMENSIONS INTERPRETED ACCORDING TO ASME Y14

BILL OF MATERIALS

ITEM	QTY.	PART NUMBER	DESCRIPTION	CONFIG. # 001281-36IN	CONFIG. # 001281-42IN
1	2	EVO-AE-001282-XX-A	Base Rail, Welded Panel	001282-8FT	001282-8FT
2	21	EVO-AE-000876-XX-A	Baluster .625in Thin Wall	000876-36IN	000876-42IN



ISOMETRIC

intertek

Test sample complies with these details.
Deviations are noted.

Report # 54594.01-119-19

Date 8/21/25 Tech AJS

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ALWOOD LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ALWOOD LLC IS PROHIBITED.

NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES [MM]
TOLERANCES:

LENGTHS:
REFER TO TABLE 8-1 IN SECTION 8 OF ANSI H35.2 (PROPERTY OF THE AMERICAN NATIONAL STANDARDS INSTITUTE)

ANGLES : ∠ = ± 1°

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL
N/A

FINISH
See Order Form

DO NOT SCALE DRAWING

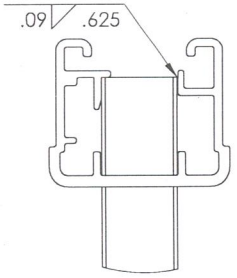
	NAME	DATE
DRAWN	GVP	7/11/2024
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

ALWOOD
DESIGN. MANUFACTURE. SUPPLY.

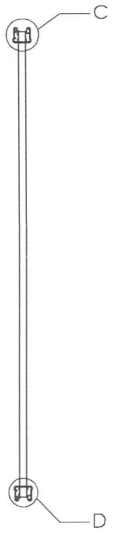
TITLE:
Welded Picket Panel, 8ft

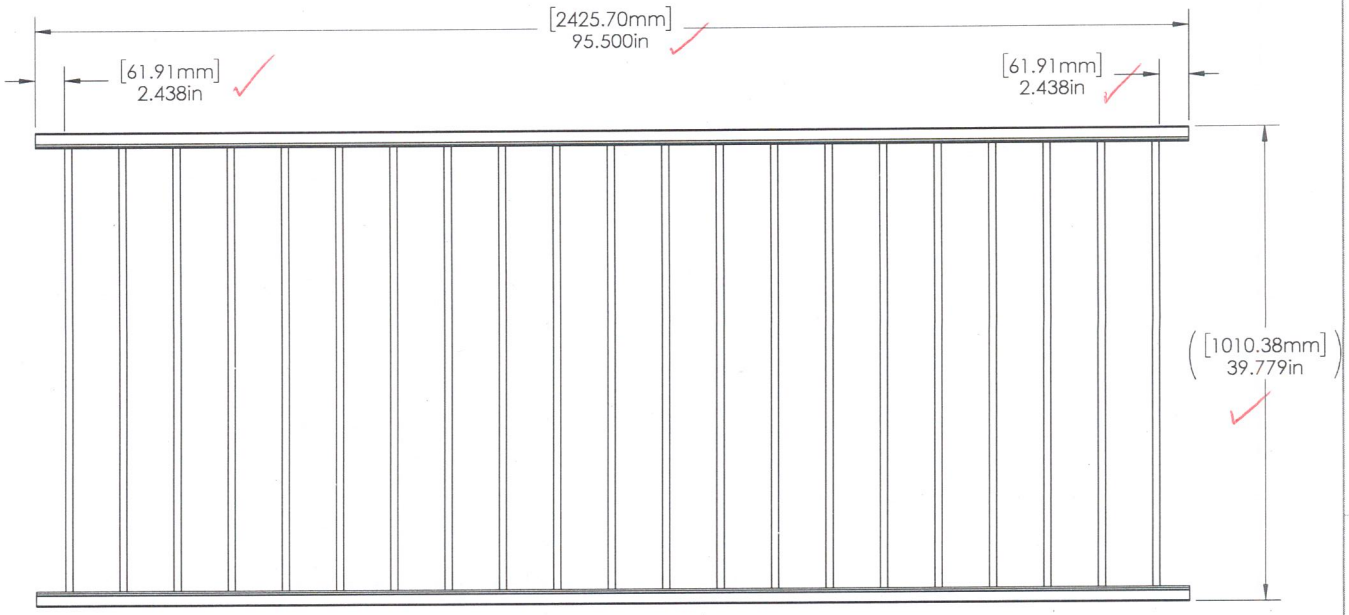
SIZE	DWG. NO.	REV
B	EVO-AS-001281-XX-A	A

SCALE: 1:12 | WEIGHT: N/A | SHEET 2 OF 4



DETAIL C
SCALE 1 : 1



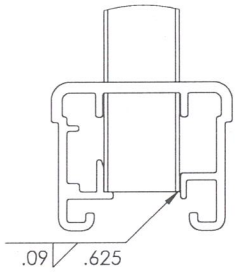


LEFT

FRONT
(001281-42IN)

NOTE:

WELD PICKET TO RAIL ON
TOP AND BOTTOM SIDES



DETAIL D
SCALE 1 : 1

intertek

Test sample complies with these details.
Deviations are noted.

Report # 54594.01-119-19

Date 8/21/25 Tech AJS

	NEXT ASSY	USED ON
	APPLICATION	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]
TOLERANCES:
LENGTHS:
REFER TO TABLE 8-1 IN SECTION 8 OF ANSI H35.2 (PROPERTY OF THE AMERICAN NATIONAL STANDARDS INSTITUTE)
ANGLES: ∠ = ± 1°
INTERPRET GEOMETRIC TOLERANCING PER:
MATERIAL N/A
FINISH See Order Form
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	GVP	7/11/2024
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

ALWOOD
DESIGN. MANUFACTURE. SUPPLY.

TITLE:
Welded Picket Panel, 8ft

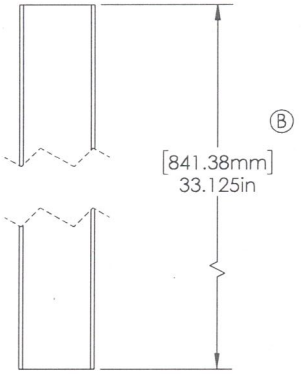
SIZE	DWG. NO.	REV
B	EVO-AS-001281-XX-A	A

SCALE: 1:10 | WEIGHT: N/A | SHEET 4 OF 4

CONFIGURATIONS		
CONFIG NO.	CONFIG DETAILS	WEIGHT
000876-36IN	36 Inch Height	0.339 lbs
000876-42IN	42 Inch Height	0.401 lbs

000876-36IN

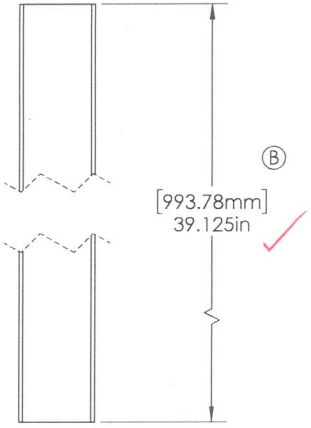
FRONT



BOTTOM

000876-42IN

FRONT



BOTTOM

intertek

Test sample complies with these details.
Deviations are noted.

Report # 54594.01-119-19

Date 8/21/25 Tech AJS

NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]
TOLERANCES:
LENGTHS:
REFER TO TABLE 8-1 IN SECTION 8 OF ANSI H35.2 (PROPERTY OF THE AMERICAN NATIONAL STANDARDS INSTITUTE)
ANGLES : ∠ = ± 1°
INTERPRET GEOMETRIC TOLERANCING PER:
MATERIAL 6063-T6
FINISH See Order Form
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	GVP	8/21/2023
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

ALWOOD
DESIGN. MANUFACTURE. SUPPLY.

TITLE: Baluster .625in Thin Wall

SIZE	DWG. NO.	REV
B	EVO-AE-000876-XX-B	B

SCALE: 5:1 | WEIGHT: N/A | SHEET 3 OF 3

NOTES:

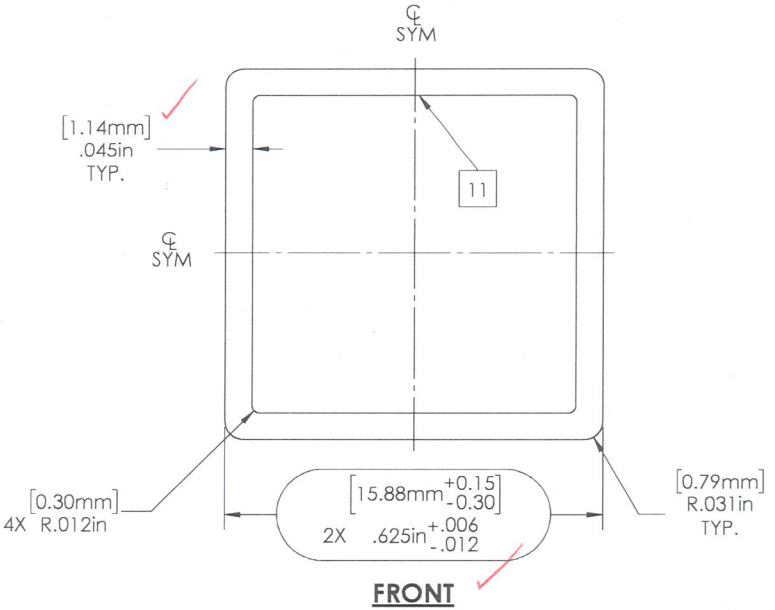
1. REFER TO CAD MODEL FOR UNSPECIFIED DIMENSIONS
2. EXTRUSION SHALL BE STRAIGHT WITHIN 1.1mm PER 1M [0.015"/FOOT]
3. EXTRUSION TWIST 1.0DEG PER 1M [1.0DEG/FOOT]
4. EXTRUSION CROSS SECTIONAL AREA IS 66.89 mm sq. [0.104 sq.in.]
5. ALL RADII & FILLET RADIUS TO BE 0.79 mm [0.031 in.] UNLESS OTHERWISE SPECIFIED
6. SECTIONAL MATERIAL THICKNESS 1.14 mm [0.045 in.] UNLESS OTHERWISE SPECIFIED
7. CRITICAL DIMENSIONS ARE SHOWN WITHIN ⬭
8. REFERENCE DIMENSIONS ARE SHOWN WITHIN ( )
9. ALL DIMENSIONS INTERPRETED ACCORDING TO ASME Y14
10. ALL TOLERANCES ARE BASED ON ANSI H35.2
11. LOCATE EXTRUDER ID MARKS IN REGION INDICATED
12. EXTRUDER ID MARKS ARE DEFINED IN DETAIL "ID MARKS"

intertek

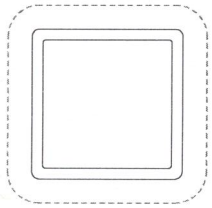
Test sample complies with these details.
Deviations are noted.

Report # 54594.01-119-19

Date 8/21/25 **Tech** AJS



FRONT



--- EXPOSED SURFACES
SCALE 2:1

WEIGHT/LENGTH	0.183	kg/m	0.123	lbs./ft.
AREA	66.89	sq. mm	0.104	sq. in.
TOTAL PERIMETER	115.98	mm	4.566	in.
OUTSIDE PERIMETER	62.14	mm	2.446	in.
EXPOSED PERIMETER	62.14	mm	2.446	in.

NEXT ASSY | USED ON | APPLICATION

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]
TOLERANCES:
LENGTHS: REFER TO TABLE 8-1 IN SECTION 8 OF ANSI H35.2 (PROPERTY OF THE AMERICAN NATIONAL STANDARDS INSTITUTE)
ANGLES: ∠ ± 1°
INTERPRET GEOMETRIC TOLERANCING PER:
MATERIAL 6063-T6
FINISH See Order Form
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	GVP	8/21/2023
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

ALWOOD
DESIGN. MANUFACTURE. SUPPLY.

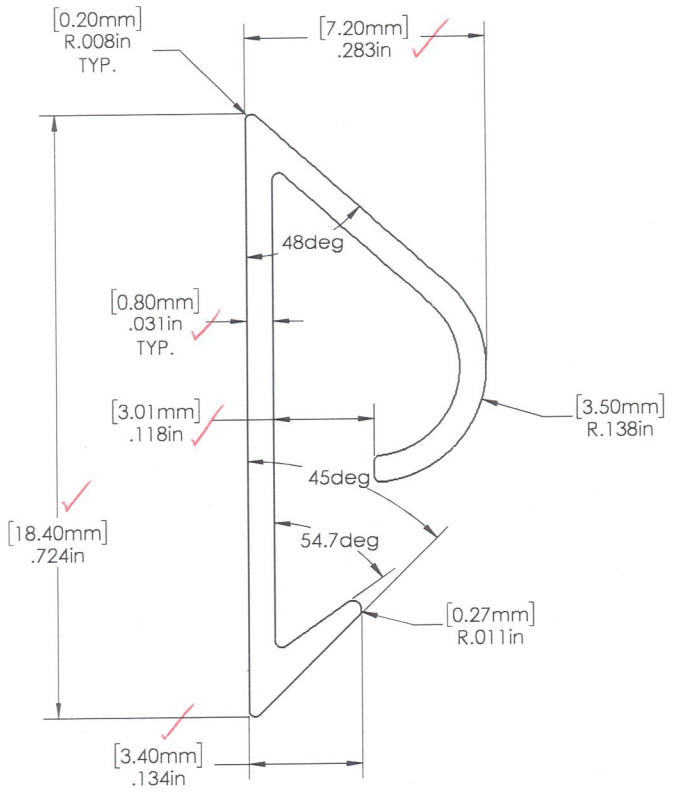
TITLE: Baluster .625in Thin Wall

SIZE	DWG. NO.	REV
B	EVO-AE-000876-XX-B	B

SCALE: 5:1 | WEIGHT: N/A | SHEET 2 OF 3

NOTES:

1. REFER TO CAD MODEL FOR UNSPECIFIED DIMENSIONS
2. EXTRUSION SHALL BE STRAIGHT WITHIN 0.0125"/FOOT
3. EXTRUSION TWIST 0.5DEG/FOOT
4. EXTRUSION CROSS SECTIONAL AREA IS 28.33 mm sq. [0.044 sq.in.]
5. CRITICAL DIMENSIONS ARE SHOWN WITHIN ⬭
6. REFERENCE DIMENSIONS ARE SHOWN WITHIN ( )
7. ALL DIMENSIONS INTERPRETED ACCORDING TO ASME Y14
8. MATERIAL PROPERTIES:
   - MATERIAL: PVC
   - HARDNESS: 95-100 SHORE
   - COLOR: BLACK



FRONT

intertek

Test sample complies with these details.
Deviations are noted.

Report # 5459.01-119-19

Date 8/21/25 Tech AJS

WEIGHT/LENGTH	0.040	kg/m	0.027	lbs./ft.
AREA	28.33	sq. mm	0.044	sq. in.
TOTAL PERIMETER	70.16	mm	2.762	in.
OUTSIDE PERIMETER	70.16	mm	2.762	in.

NEXT ASSY | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]
TOLERANCES:
LENGTHS:
X.X = +/- 0.1IN
X.XX = +/- 0.01IN
X.XXX = +/- 0.005IN
ANGLES : ∠ = ± 1°
INTERPRET GEOMETRIC TOLERANCING PER:
MATERIAL: PVC Rigid
FINISH: See Order Form
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	GVP	1/26/2025
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

ALWOOD
DESIGN. MANUFACTURE. SUPPLY.

TITLE: Insert, Friction Fit

SIZE	DWG. NO.	REV
B	EVO-PE-001172-XX-A	A

SCALE: 7:1 | WEIGHT: N/A | SHEET 2 OF 3

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

SECTION 13
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	08/26/25	N/A	Original Report Issue