

# BARRETTE OUTDOOR LIVING, INC. TEST REPORT

## **SCOPE OF WORK**

STRUCTURAL PEFORMANCE TESTING ON THE 8 FT BY 42 IN *METAL WORKS EXCALIBUR - LATITUDES* STEEL GUARDRAIL SYSTEM

## **REPORT NUMBER**

M1154.01-119-19 R0

## **TEST DATE**

04/29/21

## **ISSUE DATE**

05/18/21

## **RECORD RETENTION END DATE**

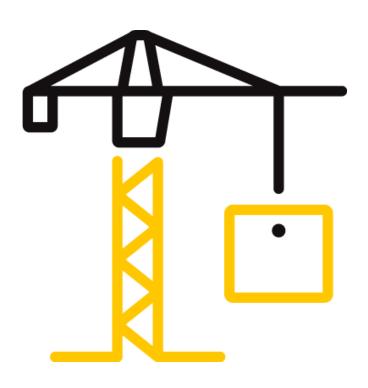
04/29/25

## **PAGES**

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## **DOCUMENT CONTROL NUMBER**

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## TEST REPORT FOR BARRETTE OUTDOOR LIVING, INC.

Report No.: M1154.01-119-19 R0

Date: 05/18/21

#### **REPORT ISSUED TO**

## BARRETTE OUTDOOR LIVING, INC.

545 Tilton Road Egg Harbor City, NJ 08215

#### **SECTION 1**

#### **SCOPE**

Intertek Building & Construction (B&C) was contracted by Barrette Outdoor Living, Inc. to perform structural performance testing in accordance with the 2018 IRC and IBC on their 8 ft (96 in) wide by 42 (in) high *Metal Works Excalibur - Latitudes* steel guardrail system. 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 (IRC loading only). Anchorage of support posts to the supporting structure is not included in the scope of this testing and would need to be evaluated separately.

Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at Intertek 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**

The specimens met the 2018 IBC and IRC design load performance requirements.

For INTERTEK B&C:

COMPLETED BY: Adam J. Schrum REVIEWED BY: V. Thomas Mickley, Jr., P.E. Senior Staff Engineer

SIGNATURE: SIGNATURE: DATE: 05/18/21

AJS:vtm/aas

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#### **SECTION 3**

#### **TEST METHODS**

The specimens were evaluated in accordance with the following:

**2018**, International Building Code®, International Code Council

**2018**, International Residential Code®, International Code Council

Structural tests were performed according to Chapter 17 (Structural Tests and Special Inspections) of IBC 2018.

#### **SECTION 4**

## **MATERIAL SOURCE/INSTALLATION**

Test samples were provided by the client. 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 8 ft (96 in) wide by 42 in high 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 (for IBC testing), or with the post mounts attached at the base to steel C-channels to represent simulated concrete condition (for IRC testing). 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.

## **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 were used to measure deflections.

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#### **SECTION 6**

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
George Sarkees	Barrette Outdoor Living, Inc.
Joe Ciszek	Barrette Outdoor Living, Inc.
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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#### **SECTION 8**

## **TEST SPECIMEN DESCRIPTION**

Barrette Outdoor Living, Inc. provided the fully-assembled test specimens with the following details:

PRODUCT	Motal Marks Evenlibur Latitudes
PRODUCT	Metal Works Excalibur - Latitudes
TYPE	Steel guardrail system
GUARDRAIL LENGTH	96 in (inside of post to inside of post)
GUARDRAIL HEIGHT	- 42 in (top of top rail to bottom of base plate)
	- 40 in (top of top rail to bottom of bottom rail)
TOP AND BOTTOM	1 in square steel tube with a 0.11 in thick wall
RAIL	
PICKETS (IN-FILL)	- Four vertical 1 in square steel tubes with 0.07 in wall, one at each
	end and at 1/3 points
	- Nine horizontal 1/2 in diameter steel tubes with 0.09 in wall equally
	spaced between the top and bottom rail
RAIL BRACKETS	1-1/4 in high by 1-5/16 in wide by 1 in long steel collar brackets
	(welded or mechanically fastened to post mount)
POST	2 in square by 0.08 in wall hollow steel post welded to a 3-13/16 in
	square by 1/4 in thick steel base plate with a 1/8 in fillet weld all
	around; the base plate included four 7/16 in diameter holes and one
	1 in square hole

## **Fastening Schedule**

CONNECTION	FASTENER
Bracket to Post (IRC	1/16 in fillet weld on three sides
only)	
Bracket to Post (IBC	Two, #10-16 by 5/8" (0.130 in minor diameter) flat head, torx drive,
and IRC)	self-drilling, stainless steel screws
Top/Bottom Rail to	Two, #10-16 by 5/8" (0.130 in minor diameter) flat head, torx drive,
Bracket	self-drilling, stainless steel screws
Vertical Picket (First	One, M5-1.75 by 19mm (0.122 in minor diameter) hex-washer head,
and Last) to	self-drilling, steel screw
Top/Bottom Rail	
Vertical Picket (Located	Butt welded on two sides and fillet welded on two sides
at Third Points) to	
Top/Bottom Rail	
Horizonal Picket to	Compression fit into plastic grommet; No mechanical connection
First and Last Vertical	
Picket	
Horizonal Picket to 1/3	Fillet welded all around
Point Vertical Pickets	

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#### **SECTION 9**

## **TEST RESULTS**

## **Key to Test Results Tables:**

Load Level: Target test load

<u>Test Load</u>: Actual applied load at the designated load level (target).

<u>Elapsed Time (E.T.)</u>: The amount of time into the test with zero established at the beginning of the loading procedure.

01

## Test Series No. 1

8 ft (96 in) by 42 in *Metal Works Excalibur - Latitudes* Steel Guardrail with Posts Restrained in Stanchions

**IBC - All Use Groups** 

Test No. 1 - 04/29/21

Design Load: 50 lb / 1 Square ft at Center of In-fill (on 3 Pickets)

LOAD LEVEL	TEST LOAD	E.T.	DISPLACEMENT (in)				
	(lb)	(min:sec)	END	MID	END	NET	
Initial Load	25	00:00		0.00			
2.0x Design Load	103	00:10		0.49			
Initial Load	25	01:29		0.00			
100% Recovery from 2.0 x Design Load							
2.5x Design Load	129	01:36	Achieved Load without Failure				

## Test No. 2 - 04/29/21

Design Load: 50 lb / 1 Square ft at Bottom of In-fill (on 3 Pickets)

LOAD LEVEL	TEST LOAD	E.T.	DISPLACEMENT (in)				
	(lb)	(min:sec)	END	MID	END	NET	
Initial Load	25	00:00	-	0.00			
2.0x Design Load	107	00:10	1	0.61			
Initial Load	25	01:21	1	0.00			
100% Recovery from 2.0 x Design Load							
2.5x Design Load	135	01:30	Achieved Load without Failure				

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## Test No. 3 - 04/29/21

Design Load: 50 lb/ft x (96 in  $\div$  12 in/ft) = 400 lb Horizontal Uniform Load On Top Rail <sup>2</sup>

LOAD LEVEL	TEST LOAD	E.T.	RAIL DISPLACEMENT (in)				
	(lb)	(min:sec)	END	MID	END	NET 1	
Initial Load	80	00:00	0.00	0.00	0.00	0.00	
2.0x Design Load	805	01:01	0.14	4.99	0.09	4.88	
Initial Load	80	02:41	0.02	0.89	0.00	0.88	
82% Recovery from 2.0 x Design Load							
2.5x Design Load	1001	03:21	Achieved Load without Failure				

<sup>&</sup>lt;sup>1</sup> Net displacement was mid-rail displacement relative to the rail at the support posts.

## Test No. 4 - 04/29/21

Design Load: 50 lb/ft x (96 in ÷ 12 in/ft) = 400 lb Vertical Uniform Load On Top Rail <sup>1</sup>

LOAD LEVEL	TEST LOAD	E.T. RAIL DISPLACEMENT (in)			T (in)		
	(lb)	(min:sec)	END	MID	END	NET	
Initial Load	80	00:00		0.00			
2.0x Design Load	806	00:49	-	1.19			
Initial Load	80	02:16	-	0.12			
90% Recovery from 2.0 x Design Load							
2.5x Design Load	1003	02:45	Achieved Load without Failure				

<sup>&</sup>lt;sup>1</sup> Uniform load was simulated with quarter point loading.

## Test No. 5 - 04/29/21

Design Load: 200 lb Horizontal Concentrated Load at Midspan of Top Rail

LOAD LEVEL	TEST LOAD E.T.		RAIL DISPLACEMENT (in)				
	(lb)	(min:sec)	END	MID	END	NET <sup>1</sup>	
Initial Load	50	00:00	0.00	0.00	0.00	0.00	
2.0x Design Load	406	00:30	0.05	3.23	0.03	3.19	
Initial Load	50	01:56	0.00	0.09	0.00	0.09	
97% Recovery from 2.0 x Design Load							
2.5x Design Load	503	02:26	Achieved Load without Failure				

<sup>&</sup>lt;sup>1</sup> Net displacement was mid-rail displacement relative to the rail at the support posts.

<sup>&</sup>lt;sup>2</sup> Uniform load was simulated with quarter point loading.



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## Test No. 6 - 04/29/21

Design Load: 200 lb Horizontal Concentrated Load at Ends of Top Rail (Brackets)

LOAD LEVEL 1	VEL <sup>1</sup> TEST LOAD E.T.		RAIL DISPLACEMENT (in)				
	(lb)	(min:sec)	RAIL END #1	RAIL END #2			
Initial Load	80	00:00	0.00	0.00			
(2.0x Design Load) x 2	808	00:24	0.25	0.22			
Initial Load	80	01:49	0.01	0.01			
95% Recovery (Rail End #1) and 95% Recovery (Rail End #2) from 2.0 x Design Load							
(2.5x Design Load) x 2	1010	02:14	Achieved Load without Failure				

<sup>&</sup>lt;sup>1</sup> A spreader beam was used to impose loads on both ends of the railing system; therefore, loads were doubled.

#### **Test Series No. 2**

8 ft (96 in) by 42 in *Metal Works Excalibur - Latitudes* Steel Guardrail with Posts Installed in Simulated Concrete Condition

**IRC - One- and Two-Family Dwellings** 

Test No. 1 - 04/29/21

Design Load: 50 lb / 1 Square ft at Center of In-fill (on 3 Pickets)

LOAD LEVEL	TEST LOAD	E.T.	DISPLACEMENT (in)				
	(lb)	(min:sec)	END	MID	END	NET	
Initial Load	25	00:00	1	0.00			
2.0x Design Load	104	00:10	1	0.50			
Initial Load	25	01:27	-	0.00			
100% Recovery from 2.0 x Design Load							
2.5x Design Load	125	01:51	Achieved Load without Failure				

## Test No. 2 - 04/29/21

Design Load: 50 lb / 1 Square ft at Bottom of In-fill (on 3 Pickets)

LOAD LEVEL	TEST LOAD	E.T.	DISPLACEMENT (in)				
	(lb)	(min:sec)	END	MID	END	NET	
Initial Load	25	00:00		0.00			
2.0x Design Load	100	00:10		0.49			
Initial Load	25	01:18	-	0.00		-	
100% Recovery from 2.0 x Design Load							
2.5x Design Load	127	01:33	Achieved Load without Failure				

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## TEST REPORT FOR BARRETTE OUTDOOR LIVING, INC.

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## Test No. 3 - 04/29/21

Design Load: 200 lb Horizontal Concentrated Load at Midspan of Top Rail

LOAD LEVEL	TEST LOAD	E.T.	RAIL DISPLACEMENT (in)				
	(lb)	(min:sec)	END	MID	END	NET <sup>1</sup>	
Initial Load	50	00:00	0.00	0.00	0.00	0.00	
2.0x Design Load	407	00:46	0.89	4.30	0.84	3.44	
Initial Load	50	02:12	0.02	0.45	0.03	0.43	
88% Recovery from 2.0 x Design Load							
2.5x Design Load	503	03:02	Achieved Load without Failure				

<sup>&</sup>lt;sup>1</sup> Net displacement was mid-rail displacement relative to the rail at the support posts.

## Test No. 4 - 04/29/21

Design Load: 200 lb Horizontal Concentrated Load at Ends of Top Rail (Brackets)

LOAD LEVEL 1	TEST LOAD	E.T.	RAIL DISPLACEMENT (in)			
	(lb) (min:sec)		RAIL END #1	RAIL END #2		
Initial Load	80	00:00	0.00	0.00		
(2.0x Design Load) x 2	803	00:52	2.11	2.30		
Initial Load	80	02:18	0.15	0.24		
93% Recovery (Rail End #1) and 90% Recovery (Rail End #2) from 2.0 x Design Load						
(2.5x Design Load) x 2   1005   03:01   Achieved Load without Failur				ithout Failure		

<sup>&</sup>lt;sup>1</sup> A spreader beam was used to impose loads on both ends of the railing system; therefore, loads were doubled.

## Test No. 5 - 04/29/21

Design Load: 200 lb Concentrated Load at Top of Stand-Alone 1 Post (42 in high)

LOAD LEVEL	TEST LOAD (lb)	E.T. (min:sec)	POST DISPLACEMENT (in)		
Initial Load	40	00:00	0.00		
2.0x Design Load	409	00:25	1.84		
Initial Load	40	01:46	0.02		
99% Recovery from 2.0 x Design Load					
2.5x Design Load	503	02:25	Achieved Load without Failure		

<sup>&</sup>lt;sup>1</sup> Post was conservatively tested without a railing attached.



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#### **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 for the building codes and guardrail details shown in the following table:

METAL WORKS EXCALIBUR - LATITUDES	GUARDRAIL TYPE	SUPPORT POST	BRACKET TO POST CONNECTION	CODE OCCUPANCY CLASSIFICATION
8 ft (96 in) by 42 in	Level / In- Line Application	1	Mechanically Connected	IBC - All Use Groups
		2 in Square Steel Post Mount Attached to Simulated Concrete	Mechanically Connected or Welded	IRC - One- and Two-Family Dwellings

<sup>&</sup>lt;sup>1</sup> Support posts are not included in the scope of the IBC evaluation documented in this report and would need to be evaluated separately.

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

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## TEST REPORT FOR BARRETTE OUTDOOR LIVING, INC.

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## **SECTION 11**

## **PHOTOGRAPHS**



Photo No. 1
In-Fill Load Test at Center of Three Pickets



Photo No. 2
In-Fill Load Test at Bottom of Three Pickets

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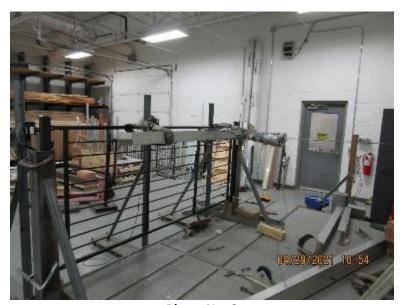


Photo No. 3
Horizontal Uniform Load on Top Rail (IBC Loading Only)



Photo No. 4
Vertical Uniform Load on Top Rail (IBC Loading Only)

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



Photo No. 6
Concentrated Load Test at Ends of Top Rail (Brackets)

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Photo No. 7
Concentrated Load Test at Top of Stand-Alone Post (42 in high)



Photo No. 8
Bracket Connection to Post and Rail

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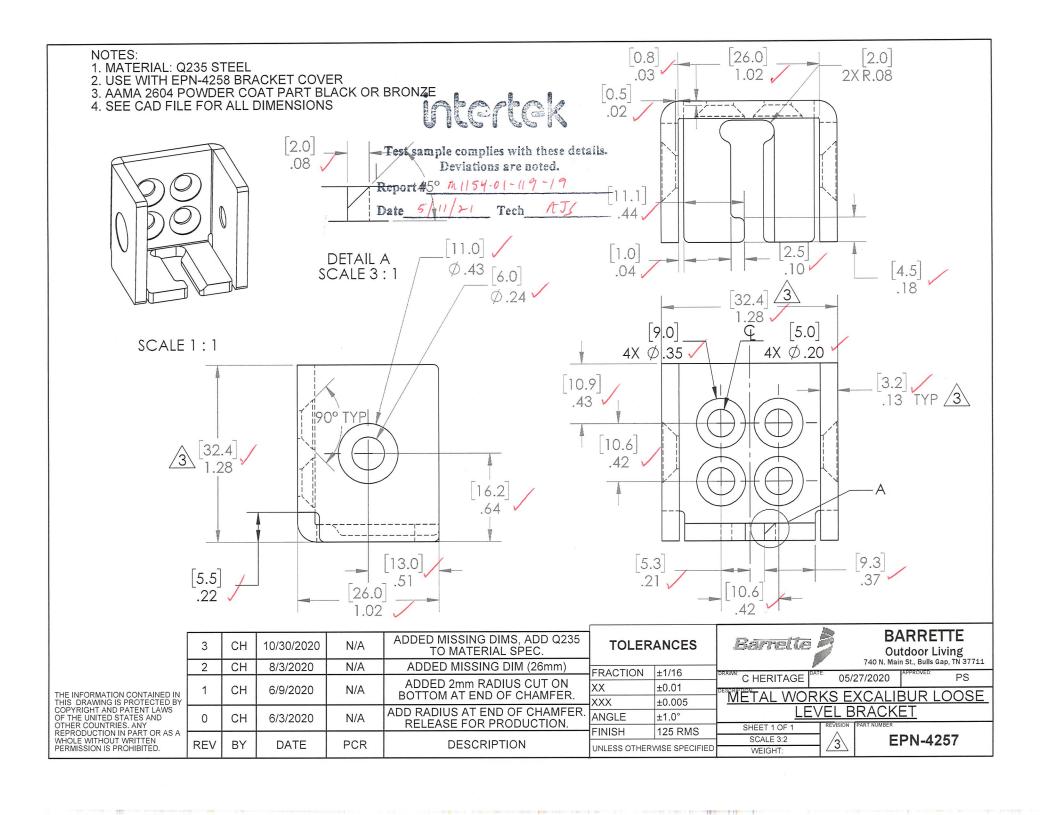
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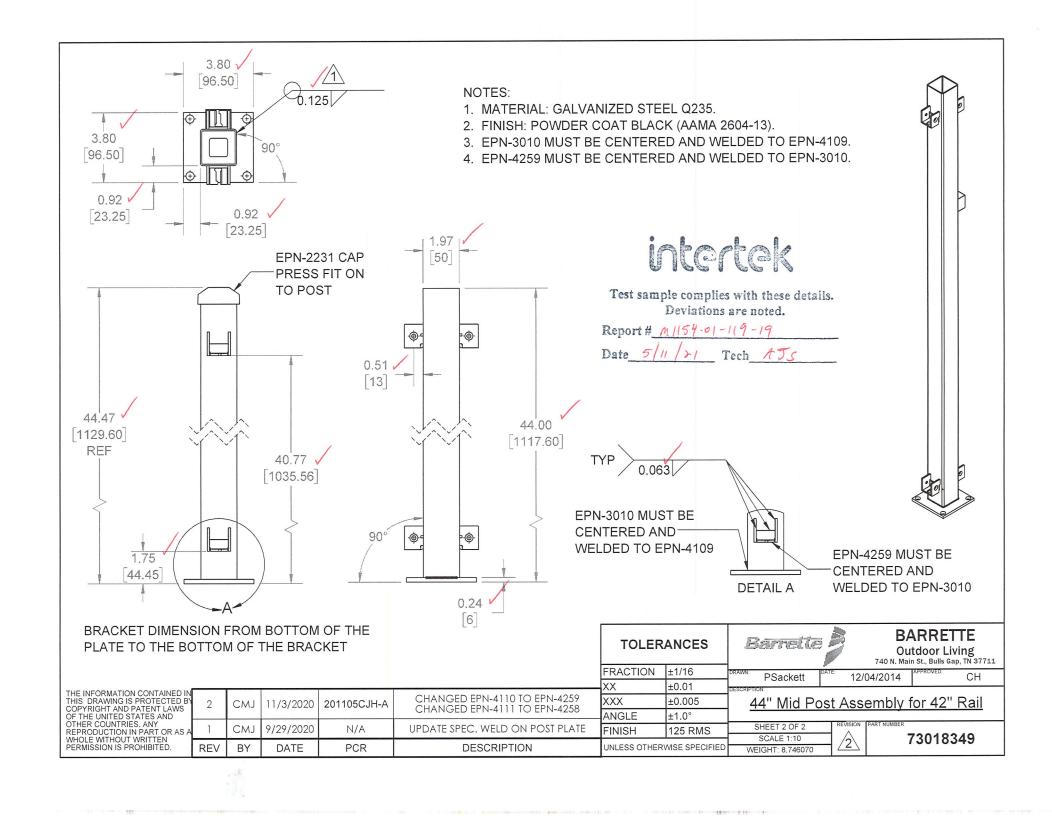
## **SECTION 12**

## **DRAWINGS**

The "As-Built" drawings for the 8 ft (96 in) wide by 42 (in) high *Metal Works Excalibur - Latitudes* steel guardrail system 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.

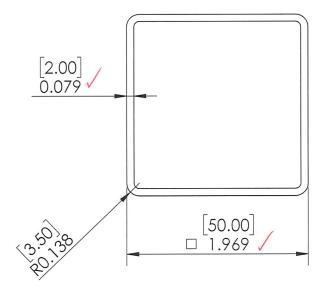
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## NOTES:

- MATERIAL: GALVANIZED STEEL Q235
- LENGTH TOLERANCE:
  - <96" = 1/16"
  - >96" = 1/8"





Test sample complies with these details. Deviations are noted.

Report # <u>M1154.01-119-19</u>

Date 5/11/21 Tech AJS

WEIGHT: 1.001574

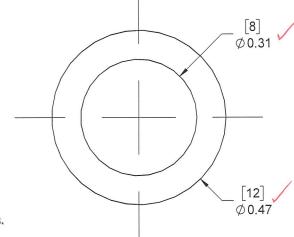
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RE	V	BY	DATE	PCR	DESCRIPTION



#### NOTES:

- 1. MATERIAL: GALVANIZED TUBE STEEL Q235.
- 2. STEEL TUBING TO BE POWDER COATED IN MATTE BLACK OR MATTE BRONZE.
- 3. DIMENSIONS SHOWN DO NOT INCLUDE POWDER COAT.
- 4. POWDER COAT THICKNESS RANGE BETWEEN .003-.006 INCHES ON EACH SURFACE.
- 5. POWDER COAT PROCESS WILL BE THE SAME AS METALWORKS EXCALIBUR PARTS.
- 6. SEE ASSEMBLY DRAWINGS FOR PART LENGTH.



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Test sample complies with these details.

Deviations are noted.

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Date 5/11/21 Tech AJS

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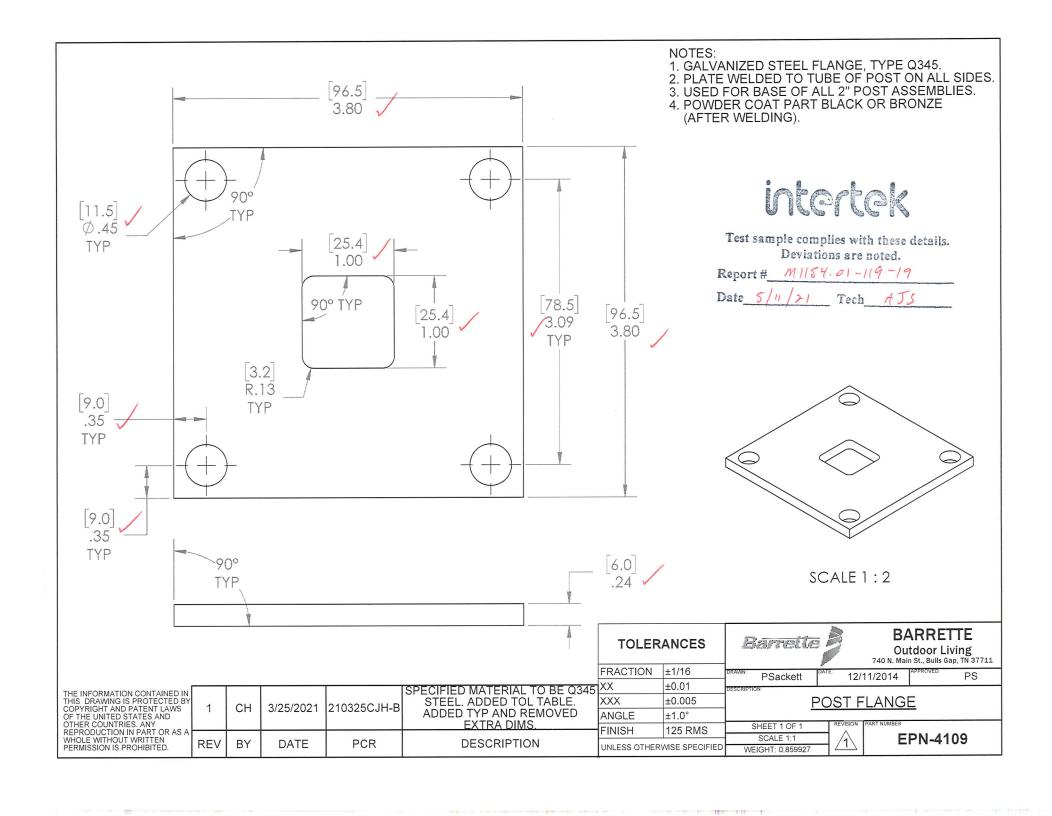
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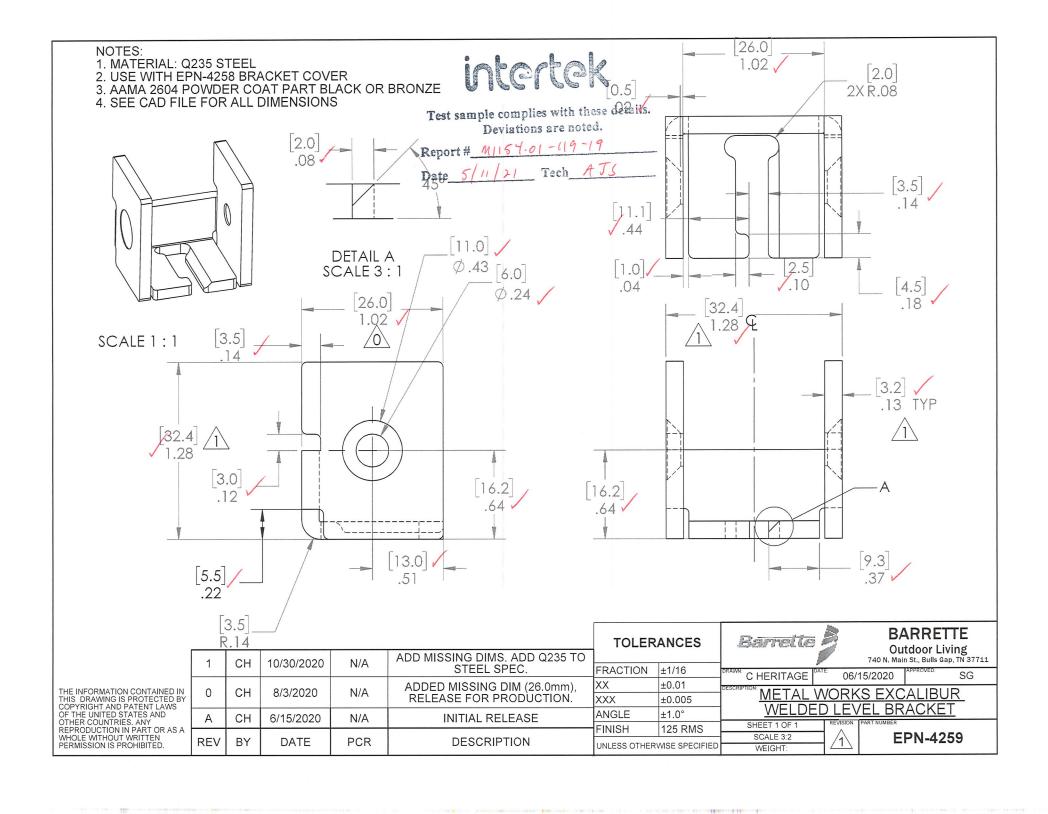
**TOLERANCES** 

**BARRETTE** 

**Outdoor Living** 

Barrette 🤌





NOTES:

PART TO BE MODELED FROM 3D CAD MODEL.
SEE INDIVIDUAL PARTS DRAWINGS FOR SPECIFIC
MATERIALS

NO LEAD IS ALLOWED IN BARRETTE PRODUCTS OR MATERIALS.

NO BURRS OR SHARP EDGES ALLOWED.

MATERIAL:

410 STAINLESS STEEL SURFACE TREATMENT:

NONE

SURFACE FINISH:

DACROMET 320PB = BLACK OR DACROMET 500B = SILVER,

GREATER THAN 36 GM/M<sup>2</sup>. COLOR AS NOTED ON SHEET.

DACROMET 500 B = SILVER

(TO WITHSTAND 1000 HOURS SALT SPRAY TEST)

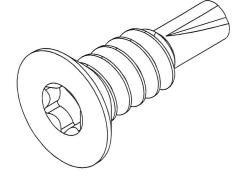


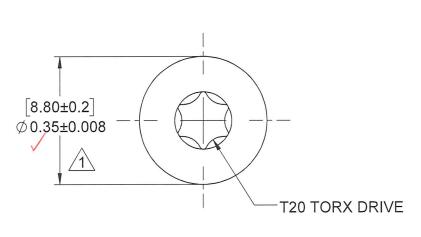
Test sample complies with these details.

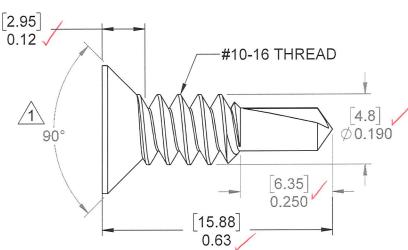
Deviations are noted.

Report # M1154.01-119-19

Date 5/11/21 Tech AJS







## 3D MODEL FILENAME EPN-6159

	TOLER	ANCES	Barrette			RRET door Liv	
	FRACTION	±1/16	DRAWN: C HERITAGE	11	/3/2020	PPROVED:	MW
	XX	±0.01	DESCRIPTION:				
	XXX	±0.005	<u>10-16 X 5/8" T20 FH SDS 410SS</u>				
١.	ANGLE	±1.0°	_	77 (0)	<u>OMET</u>		
	FINISH	125 RMS	SHEET 1 OF 1	REVISION	PART NUMBER		
	UNLESS OTHERWISE SPECIFIED		SCALE 4:1 WEIGHT: 0.00	1	EF	PN-63	37

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						XXX	±0.005	<u>10-</u>
	1	СН	12/15/2020	N/A	90 DEG. WAS 82 DEG. HEAD DIA. WAS .362 AND ADDED TOL.		±1.0°	
ı	0	CH	11/3/20	N/A	INITIAL RELEASE	FINISH	125 RMS	SHEET 1
ŀ		OH	11/3/20	19/7	INTIAL NELLAGE			SCALE
١	REV	BY DATE PCR		PCR	DESCRIPTION	UNLESS OTHER	WISE SPECIFIED	WEIGHT

NOTES:
PART TO BE MODELED FROM 3D CAD MODEL.
SEE INDIVIDUAL PARTS DRAWINGS FOR SPECIFIC MATERIALS.
NO LEAD IS ALLOWED IN BARRETTE PRODUCTS OR MATERIALS.
NO BURRS OR SHARP EDGES ALLOWED.

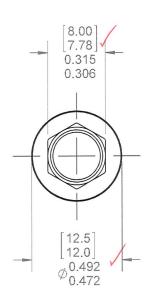
MATERIAL: STAINLESS STEEL TYPE 410

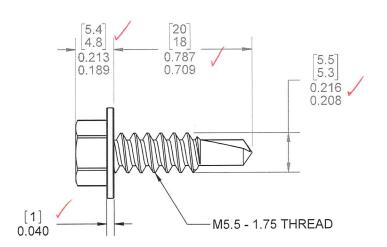
SURFACE TREATMENT:
POWDER COAT (HEAD ONLY)

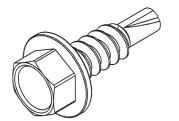
- SAME AS POWDER USED ON PANEL

ALT SURFACE TREATMENT:
DACROMET 320PB = BLACK OR DACROMET 500B = SILVER, GREATER THAN 36GM/M².

- SALT SPRAY TEST PER ASTM B117 (PASS 1000 HOURS)







## intertek

Test sample complies with these details.

Deviations are noted.

Report # <u>M1154.01-119-19</u>

Date 5/11/21 Tech AJS

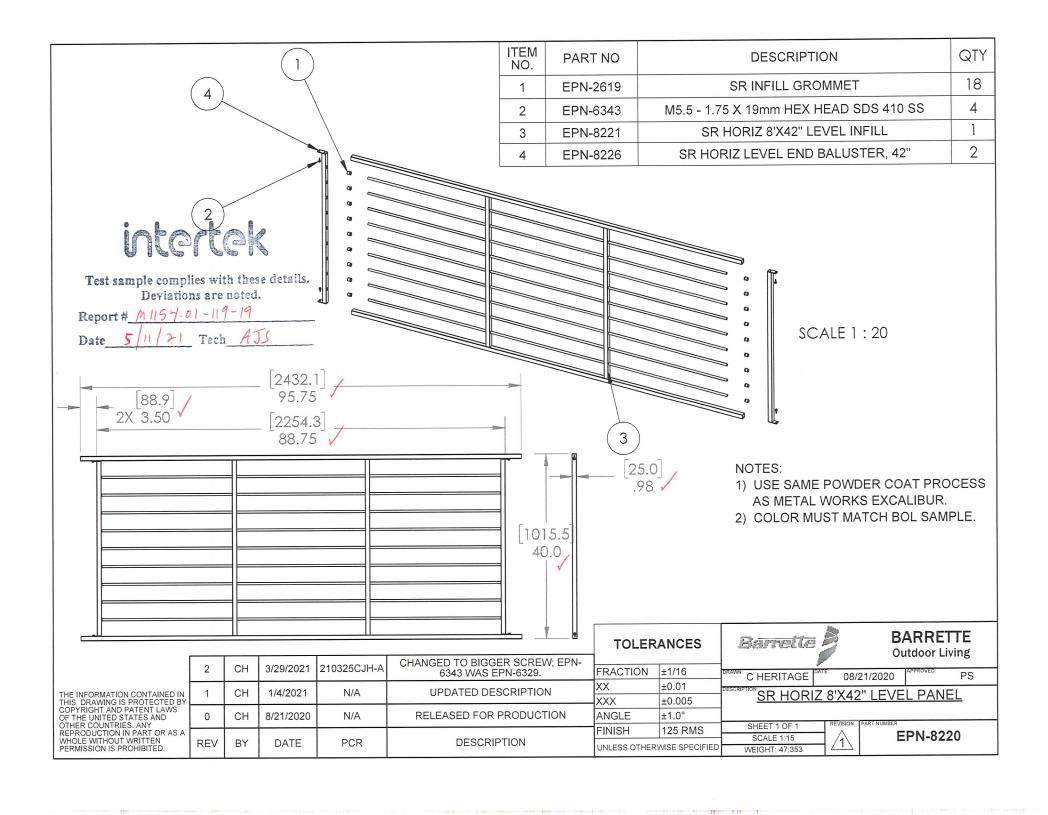
TOLERANCES		Barrette OUTDOOR LIVING					
FRACTION	±1/16	DRAWN: C HERITAGE DAYE: 03/23/2021 APPROVED:					
XX	±0.01	DESCRIPTION:					
XXX	±0.005	M5.5 - 1.75 X 19mm HEX HEAD SDS 410 SS					

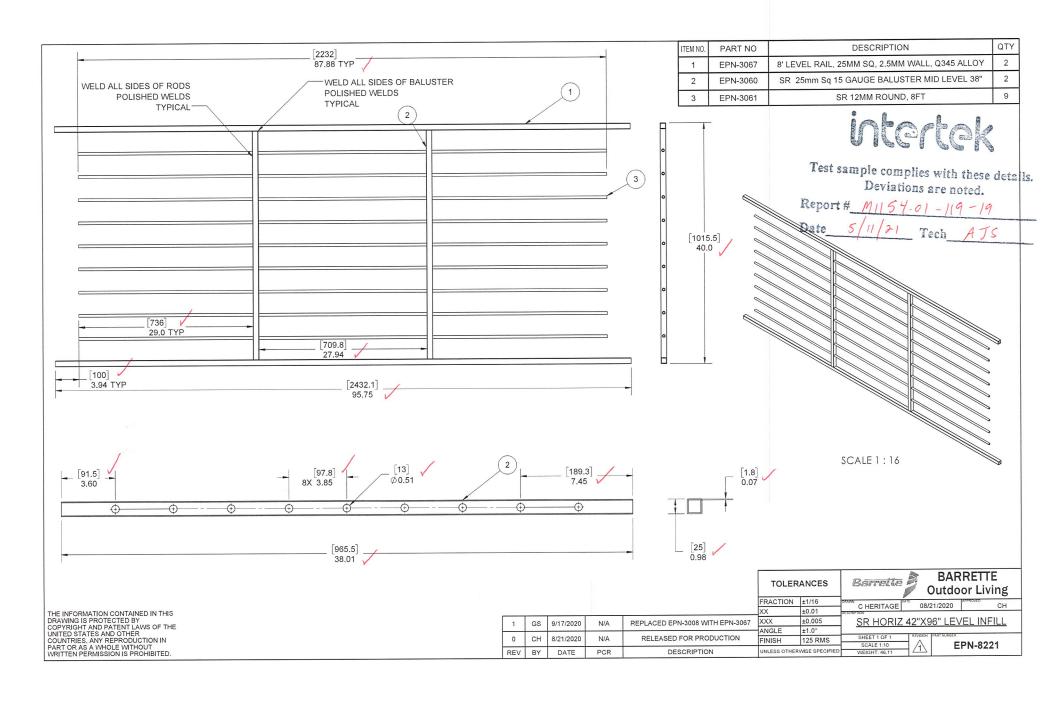
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WHOLE WITHOUT WRITTEN	DEV

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						ANGLE	±1.0			
Γ	0	СН	3/23/2021	N/A	released for production	FINISH	125 RMS	SHEET 1 OF 1 SCALE 2:1	$\wedge$	EPN-6343
Γ	REV	BY	DATE	PCR	DESCRIPTION	UNLESS OTHERWISE SPECIFIED			/0\	L1 14-0040

±1 0°







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

## TEST REPORT FOR BARRETTE OUTDOOR LIVING, INC.

Report No.: M1154.01-119-19 R0

Date: 05/18/21

## **SECTION 13**

## **REVISION LOG**

REVISION #	DATE	PAGES	REVISION
0	05/18/21	N/A	Original Report Issue