

WEATHERABLES TEST REPORT

SCOPE OF WORK

DYNAMIC WIND LOAD TESTING ON VARIOUS VINYL PRIVACY FENCE SYSTEMS

REPORT NUMBER

H6923.01-119-19 R0

TEST DATE(S)

10/26/17 - 10/27/17

ISSUE DATE

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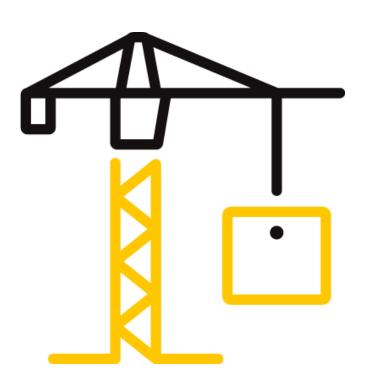
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TEST REPORT FOR WEATHERABLES

Report No.: H6923.01-119-19 R0

Date: 01/15/18

REPORT ISSUED TO

WEATHERABLES

5795 Green Pointe Drive Groveport, OH 43125

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Weatherables, Groveport, OH to perform dynamic wind load testing on various configurations of their 6 ft high by 8 ft wide vinyl privacy fence systems. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek B&C's test facility in York, PA.

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

For INTERTEK B&C: COMPLETED BY: Isaiah W. Gebhart COMPLETED BY: Travis A. Hoover TITLE: Technician II Program Manager TITLE: **SIGNATURE: SIGNATURE:** 01/15/18 01/15/18 DATE: DATE: COMPLETED BY: Gary Hartman, P.E. **Laboratory Support** TITLE: Engineer **SIGNATURE:** 01/15/18 DATE: IWG:tah/gh/aaa

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SECTION 2

MATERIAL SOURCE/INSTALLATION

Test samples were provided by the client. Test samples were inspected by a representative of Intertek B&C prior to testing. No compromising defects were observed. Representative samples of the test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

Test specimens were assembled prior to shipping by the client.

SECTION 3

EQUIPMENT

Two propeller fan wind generators were utilized for testing. The propeller of each fan was 84 in diameter and was comprised of four Kevlar composite airfoil units belt-driven by a high-output V8 engine. Wind speeds for the wind generators were calibrated according to AAMA 501.1-05. Deflections were measured with linear displacement transducers accurate to 0.01 inch.

SECTION 4

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Brad Halley	Weatherables
Isaiah Gebhart	Intertek B&C
Josh Dausinger	Intertek B&C
Gary Hartman, P.E.	Intertek B&C

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SECTION 5

TEST PROCEDURES

One specimen (consisting of a 2-panel/3-post fully assembled fence section) of each vinyl privacy fence system listed below was tested. The fence assemblies measured approximately 8 ft wide by 6 ft high. See drawings in Section 10 for detailed descriptions of assembly and components.

A steel test fixture was designed and fabricated to simulate a rigid post embedment. The bottom of the bottom rail was fixed at two inches above the top of the test fixture. The wind generator outlet was located 4 ft. from the face of the specimen. Linear transducers were fixed on the top rail, middle of the in-fill area, and bottom rail for deflection measurements. See drawings in Section 10 for detailed descriptions of assembly and components and photographs in Section 9 for specimen orientation respective to wind direction.

Wind load testing began at 60 mph and increased until failure or a maximum wind speed of 130 mph. Wind loads were performed with a relaxation period following 80 mph and 115 mph to record permanent set measurements.

Limitations of Test

Test setup and procedure provides information for evaluation of the fence assembly to resist sustained wind speeds indicated in the test results. This evaluation includes the transfer of wind loads to the fence panels, rails, and support posts. The posts only support a single section of fence in this simulation and are therefore not fully evaluated for actual field conditions.

SECTION 6

TEST CALCULATIONS

Wind Load Testing

The duration of the applied wind load at each wind speed was determined by using the following equation:

t = 3600 / Vfm (Equation 1)

where:

t = duration (s), required for a one mile long sample of air to pass Vfm = "fastest mile" wind speed (mph)

Wind speeds used in testing correlate with "fastest mile" wind speeds (Vfm) for reference to codes and design standards. Maximum deflections were recorded at each load level.

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SECTION 7

TEST SPECIMEN DESCRIPTIONS

Four different configurations of fence sections were evaluated. Those evaluated with physical testing include:

- 8 ft wide by 6 ft high PXPR-OT-6X8 Tremont PVC privacy fence
- 8 ft wide by 6 ft high PXPR-CT-6X8 Mason PVC privacy fence
- 8 ft wide by 6 ft high PXPR-LAT-6X8 Ashton PVC privacy fence
- 8 ft wide by 6 ft high PXPR-SQLAT-6X8 Scottsdale PVC privacy fence

Those qualified by comparison to tested fence sections with the tested sections deemed similar and weaker include:

- 8 ft wide by 6 ft high PXPR-OTS-6X8 *Halifax* PVC privacy fence (qualified by 8 ft wide by 6 ft high PXPR-OT-6X8 *Tremont* PVC privacy fence)
- 8 ft wide by 6 ft high PXPR-OTS2-6X8 *Louisville* PVC privacy fence (qualified by 8 ft wide by 6 ft high PXPR-OT-6X8 *Tremont* PVC privacy fence)
- 8 ft wide by 6 ft high PXPR-CTRND-6X8 *Bradford* PVC privacy fence (qualified by 8 ft wide by 6 ft high PXPR-CT-6X8 *Mason* PVC privacy fence)

Detailed test specimen descriptions of the fence panels tested are provided below.

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Configuration No. 1

Configuration No. 1	
SERIES/MODEL	PXPR-OT-6X8 - Tremont
DESCRIPTION	8 ft wide by 6 ft high PVC privacy fence
RAILS	Top- 1-3/4 in wide by 3.5 in. high by 95-3/4 in. long PVC slotted rail,
	Mid/Bottom- 1-1/2 in. wide by 5-1/2 in. high by 95-3/4 in. long PVC
	slotted rails, two notches per side on each rail end
RAIL REINFORCEMENT	Bottom Rail- 1-1/4 in. wide by 1-5/8 in. high by 95-5/8 long "I"
	shaped aluminum
PANELS	Fifteen 7/8 in. deep by 6 in. wide (6-1/4 in. including tongue) by 44-
	1/2 in. long PVC Tongue & Groove panels with notched ends. Each
	panel was secured by two (2) #10 by 1 in. capped stainless steel pan
	head screws (one at top and bottom). The two end panels were
	each secured by a 1-1/8 in. wide by 1-1/2 in. high by 41 in. long U-
	channel attached to the post with two #10 x 1 in. stainless steel pan
	head screws (one side only).
PICKET ACCENT	Twenty-eight 7/8 in. deep by 1-1/2 in. wide by 20-1/4 in. long PVC
	pickets. The pickets were inserted into routings in the top and mid
	rail. At the mid rail location, the pickets were captured in the
	routing via notches on the pickets and every fourth picket was
	secured by a #10 x 1 in. capped stainless steel pan head screw (one
	side only). At the top rail location, the picket passed through the
	routing in the rail and extended above approximately 7 in. Every
	fourth picket was then secured by a #10 x 1-1/2 in. capped stainless
D0070	steel pan head screw (one side only).
POSTS	Three, 5 in. by 5 in. by 108 in. long PVC (0.150 in. wall) routed posts
POST	Three, 4.6 in. wide by 4.6 in. high by 54 in. long "I"-shaped
REINFORCEMENT	aluminum extrusions (0.110 in. thickness)
	Note: in lieu of aluminum reinforcement post can be filled with
	concrete to a height of 22 in. above grade (54 in. from bottom of
DAIL ATTACHE	post to top of concrete).
RAIL ATTACHMENT	Routed holes in the posts captured the ends of the rails. The
	notched rail ends engaged the rail in the post. Additionally, a #10 x
	1 in. stainless steel pan head screw was inserted through the top of
	the top rail (inside of the post), 1-3/4 inches in at each end of the
	top rail.

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Configuration No. 2

PXPR-CT-6X8 - Mason B ft wide by 6 ft high PVC privacy fence Top- 1-3/4 in. wide by 3.5 in. high by 95-3/4 in. PVC slotted rail, Mid/Bottom- 1-1/2 in. by 5-1/2 in. by 95-3/4 in. PVC slotted rails, two notches per side on each rail end Bottom Rail- 1-1/4 in. wide by 1-5/8 in. high by 95-5/8 long "I" shaped aluminum PANELS Fifteen 7/8 in. deep by 6 in. wide (6-1/4 in. including tongue) by 52 in. long PVC Tongue & Groove Panels with notched ends. Each panel was restrained by two #10 x 1 in. capped stainless steel pan head screws (one at top and bottom). The two end panels were each restrained by a 1-1/4 in. wide by 1-1/2 in. high by 48-3/8 in. long U-channel attached to the post with two #10 x 1 in. stainless steel pan head screws (one side only). PICKET ACCENT Seventeen 7/8 in. deep by 1-1/2 in. wide by 14-1/4 in. long PVC pickets. The pickets were inserted into routings in the top and mid rail. Every other picket was then secured by two (2) #10 by 1-1/2 in. capped stainless steel pan head screws (one at top and bottom / one side only). POSTS Three, 5 in. by 5 in. by 108 in. long PVC (0.150 in. wall) routed posts Three, 4.6 in. wide by 4.6 in. high by 54 in. long "I"-shaped
RAILS Top- 1-3/4 in. wide by 3.5 in. high by 95-3/4 in. PVC slotted rail, Mid/Bottom- 1-1/2 in. by 5-1/2 in. by 95-3/4 in. PVC slotted rails, two notches per side on each rail end Bottom Rail- 1-1/4 in. wide by 1-5/8 in. high by 95-5/8 long "I" shaped aluminum PANELS Fifteen 7/8 in. deep by 6 in. wide (6-1/4 in. including tongue) by 52 in. long PVC Tongue & Groove Panels with notched ends. Each panel was restrained by two #10 x 1 in. capped stainless steel pan head screws (one at top and bottom). The two end panels were each restrained by a 1-1/4 in. wide by 1-1/2 in. high by 48-3/8 in. long U-channel attached to the post with two #10 x 1 in. stainless steel pan head screws (one side only). PICKET ACCENT Seventeen 7/8 in. deep by 1-1/2 in. wide by 14-1/4 in. long PVC pickets. The pickets were inserted into routings in the top and mid rail. Every other picket was then secured by two (2) #10 by 1-1/2 in. capped stainless steel pan head screws (one at top and bottom / one side only). POSTS Three, 5 in. by 5 in. by 108 in. long PVC (0.150 in. wall) routed posts
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POST Three, 4.6 in. wide by 4.6 in. high by 54 in. long "I"-shaped
,
REINFORCEMENT aluminum extrusions (0.110 in. thickness)
Note: in lieu of aluminum reinforcement post can be filled with
concrete to a height of 22 in. above grade (54 in. from bottom of
post to top of concrete).
RAIL ATTACHMENT Routed holes in the posts captured the ends of the rails. The
notched rail ends engaged the rail in the post. Additionally, a #10 x
1 in. stainless steel pan head screw was inserted through the top of
the top rail (inside of the post), 1-3/4 inches in at each end of the
top rail.

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Configuration No. 3

SERIES/MODEL	PXPR-LAT-6X8 - Ashton
DESCRIPTION	8 ft wide by 6 ft high PVC privacy fence
RAILS	Top- 1-3/4 in. wide by 3.5 in. high by 95-3/4 in. long PVC slotted rail,
	Mid/Bottom- 1-1/2 in. wide by 5-1/2 in. high by 95-3/4 in. long PVC
	slotted rails, two notches per side on each rail end
RAIL REINFORCEMENT	Bottom Rail- 1-1/4 in. wide by 1-5/8 in. high by 95-5/8 long "I"
	shaped aluminum
PANELS	Fifteen 7/8 in. deep by 6 in. wide (6-1/4 in. including tongue) by 52
	in. long PVC Tongue & Groove panels with notched ends. Each
	panel was secured by two #10 x 1 in. capped stainless steel pan
	head screws (one at top and bottom). The two end panels were
	each restrained by a 1-1/4 in. wide by 1-1/2 in. high by 48-3/8 in.
	long U-channel attached to the post with two #10 x 1 in. stainless
LATTICE ACCENT	steel pan head screws (one side only).
LATTICE ACCENT	90 in. wide by 12 in. high PVC lattice panel. The lattice panel was contained within 7/8 in. deep by 1-1/2 in. wide PVC lattice rail end
	caps. The lattice was secured to the top rail and mid rail using #10
	x 1-1/2 in. stainless steel pan head screws intermittently spaced
	along its length (one side only). Two #10 x 3/4 in. stainless steel pan
	head screws spaced 6 in. apart at each end secured the lattice to
	the lattice end caps (one side only).
POSTS	Three, 5 in. by 5 in. by 108 in. long PVC (0.150 in. wall) routed posts
POST	Three, 4.6 in. wide by 4.6 in. high by 54 in. long "I"-shaped
REINFORCEMENT	aluminum extrusions (0.110 in. thickness)
	Note: in lieu of aluminum reinforcement post can be filled with
	concrete to a height of 22 in. above grade (54 in. from bottom of
	post to top of concrete).
RAIL ATTACHMENT	Routed holes in the posts captured the ends of the rails. The
	notched rail ends engaged the rail in the post. Additionally, a #10 x
	1 in. stainless steel pan head screw was inserted through the top of
	the top rail (inside of the post), 1-3/4 inches in at each end of the
	top rail.

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Configuration No. 4

Configuration No. 4	1
SERIES/MODEL	PXPR-SQLAT-6X8 - Scottsdale
DESCRIPTION	8 in. wide by 6 in. high PVC privacy fence
RAILS	Top- 1-3/4 in. wide by 3.5 in. high by 95-3/4 in. long PVC slotted rail,
	Mid/Bottom- 1-1/2 in. wide by 5-1/2 in. high by 95-3/4 in. long PVC
	slotted rails, two notches per side on each rail end
RAIL REINFORCEMENT	Bottom Rail- 1-1/4 in. wide by 1-5/8 in. high by 95-5/8 long "I"
	shaped aluminum
PANELS	Fifteen 7/8 in. deep by 6 in. wide (6-1/4 in. including tongue) by 47-
	1/2 in. PVC Tongue & Groove panels with notched ends. Each panel
	was secured by two #10 x 1 in. capped stainless steel pan head
	screws (one at top and bottom). The two end panels were each
	restrained by a 1-1/4 in. wide by 1-1/2 in. high by 48-3/8 in. long U-
	channel attached to the post with two #10 x 1 in. stainless steel pan
	head screws (one side only).
LATTICE PICKET	Eighteen 1-1/4 in. deep by 1-1/4 in. wide by 16-3/4 in. long PVC
ACCENT	pickets running vertically with routings to allow the passage of two
	7/8 in. deep by 1-1/2 in. wide by 89-1/2 in. long PVC pickets running
	horizontally and spaced at 5 in. on-center. The vertical pickets were
	inserted into routings in the top and mid rail. The horizontal pickets
	were captured at each end by a 1-1/4 in. deep by 1-1/4 in. wide by
	16-3/4 in. long PVC end picket. Every other horizontal picket was
	then secured by a #10 by 1-1/2 in. capped stainless steel pan head
	screw at the top (one side only) and a #10 by 1 in. capped stainless steel pan head screw at the bottom (one side only).
POSTS	
POST	Three 5 in. by 5 in. by 108 in. PVC (0.150 in. wall) Routed Posts Three, 4.6 in. wide by 4.6 in. high by 54 in. long "I"-shaped
REINFORCEMENT	aluminum extrusions (0.110 in. thickness)
REINFORCEIVIENT	Note: in lieu of aluminum reinforcement post can be filled with
	concrete to a height of 22 in. above grade (54 in. from bottom of
	post to top of concrete).
RAIL ATTACHMENT	Routed holes in the posts captured the ends of the rails. The
RAIL ATTACHIVILINI	notched rail ends engaged the rail in the post. Additionally, a #10 x
	1 in. stainless steel pan head screw was inserted through the top of
	the top rail (inside of the post), 1-3/4 inches in at each end of the
	top rail.
	top run.

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TEST REPORT FOR WEATHERABLES

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Date: 01/15/18

SECTION 8

TEST RESULTS

PXPR-OT-6X8 - Tremont - Configuration No. 1a (no aluminum post reinforcement)

Test Date: 10/26/17

		MAXIMUM DEFLE		ECTION (
		Тор		Mid		Bottom	
WIND SPEED	DURATION	Left	Right	Left	Right	Left	Right
60 mph	60 sec	4.43	5.26	3.13	4.10	1.64	2.63
70 mph	51 sec	5.14	6.23	4.12	5.21	2.34	3.12
80 mph	45 sec	7.54	8.31	5.98	6.21	3.21	3.98
0 mph	Permanent Set	0.20	0.19	0.16	0.21	0.14	0.19

Observation: Specimen failed while trying to achieve 90 mph.

Maximum Sustained Wind, $V_{fm} = 80 \text{ mph}$

Equivalent 3-second gust, V_{3s} = (1.05 x V_{fm}) + 10.5 = 95 mph

PXPR-OT-6X8 - Tremont - Configuration No. 1b (aluminum post reinforcement)

Test Date: 10/26/17

		MAXIM	UM DEFLE	CTION (i			
		Тор		Mid		Bottom	l
WIND SPEED	DURATION	Left	Right	Left	Right	Left	Right
90 mph	40 sec	6.23	7.78	5.31	6.36	3.14	4.76
100 mph	36 sec	7.23	8.56	6.10	7.83	3.44	5.83
110 mph	33 sec	6.43	9.96	5.83	9.03	3.32	6.90
115 mph	32 sec	6.93	10.02	6.34	9.63	4.43	7.49
0 mph	Permanent Set	0.33	0.61	0.29	0.71	0.34	0.89
120 mph	30 sec	10.43	11.88	7.93	10.99	6.31	8.86

Observation: Specimen failed while trying to achieve 130 mph.

Maximum Sustained Wind, $V_{fm} = 120 \text{ mph}$

Equivalent 3-second gust, $V_{3s} = (1.05 \text{ x } V_{fm}) + 10.5 = 137 \text{ mph}$

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TEST REPORT FOR WEATHERABLES

Report No.: H6923.01-119-19 R0

Date: 01/15/18

PXPR-CT-6X8 - Mason - Configuration No. 2 (aluminum post reinforcement)

Test Date: 10/26/17

0,20,1,						
	MAXIMUM DEFL		CTION (i			
	Тор		Mid		Bottom	1
DURATION	Left	Right	Left	Right	Left	Right
60 sec	3.67	4.27	3.24	4.17	1.89	2.60
51 sec	4.47	5.38	3.84	4.74	2.73	2.91
45 sec	6.05	6.78	5.56	6.07	3.21	3.88
Permanent Set	0.40	0.43	0.30	0.36	0.20	0.31
40 sec	7.83	8.92	6.11	7.71	3.93	5.54
36 sec	9.23	9.97	7.98	8.93	4.74	6.56
33 sec	10.90	11.17	10.76	9.34	6.17	7.96
32 sec	11.24	12.26	9.37	11.19	6.21	8.23
Permanent Set	0.81	0.99	0.77	1.22	0.95	1.46
30 sec	11.96	13.44	16.13	12.67	6.96	9.78
	DURATION 60 sec 51 sec 45 sec Permanent Set 40 sec 36 sec 33 sec 32 sec Permanent Set	MAXIMITOP DURATION Left 60 sec 3.67 51 sec 4.47 45 sec 6.05 Permanent Set 0.40 40 sec 7.83 36 sec 9.23 33 sec 10.90 32 sec 11.24 Permanent Set 0.81	MAXIMUM DEFLET Top Left Right 60 sec 3.67 4.27 51 sec 4.47 5.38 45 sec 6.05 6.78 Permanent Set 0.40 0.43 40 sec 7.83 8.92 36 sec 9.23 9.97 33 sec 10.90 11.17 32 sec 11.24 12.26 Permanent Set 0.81 0.99	MAXIMUM DEFLECTION (in Top Top Mid Boundaries Left Right Left 60 sec 3.67 4.27 3.24 51 sec 4.47 5.38 3.84 45 sec 6.05 6.78 5.56 Permanent Set 0.40 0.43 0.30 40 sec 7.83 8.92 6.11 36 sec 9.23 9.97 7.98 33 sec 10.90 11.17 10.76 32 sec 11.24 12.26 9.37 Permanent Set 0.81 0.99 0.77	MAXIMUM DEFLECTION (inches) Top Mid DURATION Left Right Left Right 60 sec 3.67 4.27 3.24 4.17 51 sec 4.47 5.38 3.84 4.74 45 sec 6.05 6.78 5.56 6.07 Permanent Set 0.40 0.43 0.30 0.36 40 sec 7.83 8.92 6.11 7.71 36 sec 9.23 9.97 7.98 8.93 33 sec 10.90 11.17 10.76 9.34 32 sec 11.24 12.26 9.37 11.19 Permanent Set 0.81 0.99 0.77 1.22	MAXIMUM DEFLECTION (inches) Top Mid Bottom DURATION Left Right Left Right Left 60 sec 3.67 4.27 3.24 4.17 1.89 51 sec 4.47 5.38 3.84 4.74 2.73 45 sec 6.05 6.78 5.56 6.07 3.21 Permanent Set 0.40 0.43 0.30 0.36 0.20 40 sec 7.83 8.92 6.11 7.71 3.93 36 sec 9.23 9.97 7.98 8.93 4.74 33 sec 10.90 11.17 10.76 9.34 6.17 32 sec 11.24 12.26 9.37 11.19 6.21 Permanent Set 0.81 0.99 0.77 1.22 0.95

Observation: Specimen failed while trying to achieve 130 mph.

Maximum Sustained Wind, $V_{fm} = 120 \text{ mph}$

Equivalent 3-second gust, $V_{3s} = (1.05 \text{ x } V_{fm}) + 10.5 = 137 \text{ mph}$

PXPR-LAT-6X8 - Ashton - Configuration No. 3 (aluminum post reinforcement)

Test Date: 10/27/17

WIND SPEED	DURATION	MAX	IMUM DE	FLECTION (inches)				
		Тор		Mid	Mid		Bottom	
		Left	Right	Left	Right	Left	Right	
60 mph	60 sec	5.81	6.01	5.10	4.98	3.11	3.40	
70 mph	51 sec	7.03	7.44	6.26	6.23	3.88	4.25	
80 mph	45 sec	7.64	7.55	6.31	6.28	4.14	4.25	
0 mph	Permanent Set	0.26	0.23	0.19	0.21	0.15	0.25	
90 mph	40 sec	8.35	9.98	7.51	8.38	5.15	6.26	
100 mph	36 sec	10.65	10.99	9.40	9.48	6.70	6.80	
110 mph	33 sec	11.49	12.55	10.03	11.49	7.41	8.66	
115 mph	32 sec	12.86	13.65	11.48	12.11	8.59	9.07	
0 mph	Permanent Set	0.95	1.10	1.01	1.45	1.16	1.80	

Observation: Specimen failed while trying to achieve 120 mph.

Maximum Sustained Wind, V_{fm} = 115 mph

Equivalent 3-second gust, $V_{3s} = (1.05 \text{ x } V_{fm}) + 10.5 = 131 \text{ mph}$

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PXPR-SQLAT-6X8 - Scottsdale - Configuration No. 4 (aluminum post reinforcement)

Test Date: 10/27/17

. 664 2446. 20/2//2/								
WIND SPEED	DURATION	MAX	IMUM DE	FLECTION	(inches			
		Тор	Тор		Mid		Bottom	
		Left	Right	Left	Right	Left	Right	
60 mph	60 sec	7.84	5.29	6.64	4.62	4.57	3.07	
70 mph	51 sec	9.15	6.53	7.67	5.46	6.05	3.56	
80 mph	45 sec	10.88	7.27	9.53	6.13	7.53	4.11	
0 mph	Permanent Set	0.96	0.39	0.66	0.35	0.80	0.28	
90 mph	40 sec	8.31	8.68	6.53	8.01	8.04	5.94	
100 mph	36 sec	9.53	9.60	7.87	8.80	8.04	6.60	
110 mph	33 sec	11.95	10.95	10.36	9.84	8.04	7.73	
115 mph	32 sec	12.41	12.40	10.36	11.45	8.04	8.98	
0 mph	Permanent Set	1.03	0.87	0.75	1.14	0.89	1.38	
120 mph	30 sec	14.22	14.07	13.33	15.75	9.40	17.07	

Observation: Specimen failed while trying to achieve 130 mph.

Maximum Sustained Wind, V_{fm} = 120 mph Equivalent 3-second gust, V_{3s} = (1.05 x V_{fm}) + 10.5 = 137 mph

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TEST REPORT FOR WEATHERABLES

Report No.: H6923.01-119-19 R0

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SECTION 9

PHOTOGRAPHS



Photo No. 1
Wind Generator Outlet Relative to Test Specimen



Photo No. 2
Typical Dynamic Wind Load Setup



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TEST REPORT FOR WEATHERABLES

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Photo No. 3
Fence Failure / Configuration 1b - *Tremont*



Photo No. 4
Fence Failure / Configuration 2 - Mason



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TEST REPORT FOR WEATHERABLES

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Date: 01/15/18



Photo No. 5
Fence Failure (Left Side Disengaged) / Configuration 3 - Ashton



Photo No. 6
Fence Failure / Configuration 4- Scottsdale



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TEST REPORT FOR WEATHERABLES

Report No.: H6923.01-119-19 R0

Date: 01/15/18

SECTION 10

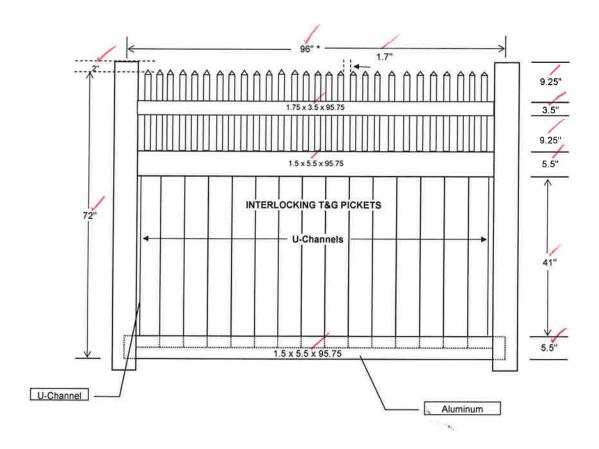
DRAWINGS

The "As-Built" drawings for the various PVC privacy fences 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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Tremont 6x8

Use a small teardrop of glue in the inside corners of cap.



1

Material List							
Qty	Item	Dimension	WRHS USE ONLY				
1	Top Rail	1-3/4" x 3-1/2 "x 95-3/4"*	1-3/4" X 3-1/2" X 8' Rail				
1	Mid Rail	1-1/2" x 5-1/2" x 95-3/4"*	1-1/2" x 5-1/2" X 8' Rail				
1	Bottom Rail	1-1/2" x 5-1/2" x 95-3/4"*	1-1/2" x 5-1/2" X 8' Rail				
1	Aluminum	1-1/4" x 1-3/4" x 95-3/4"	1-1/4" x 1-3/4" x 8'				
2	U-Channel	1-1/8" x 1-1/4" x 41"*	48-1/2" U Channel				
15	Picket	7/8" x 6" x 44-1/2"*	7/8" X 6" X 52" T&G				
28	Spindle	7/8" x 1-1/2 "x 20-1/4"	7/8" x 1-1/2" x 47" Pickets				
28	Picket Cap	7/8" x 1-1/2 "	7/8" x 1-1/2" Spade Cap				

- * Actual measurements may vary
- * Panel should be installed 2" off ground

Updated 01/31/2011

PWPR-OT-6X8UG

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Test sample complies with these details.

Deviations are noted.

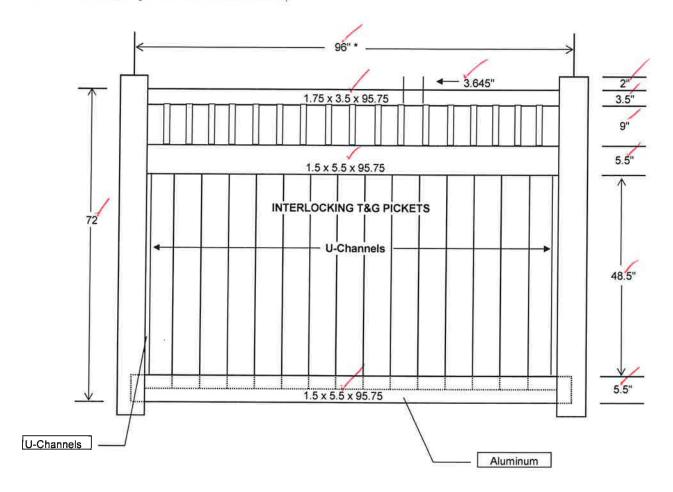
Report # #6923.01-119-19

Date 1/12/18 Tech ING

Mason 6x8

Note: If re-ordering additional product, please compare your existing specs with our current specs for any changes or updates. Apply a small amount of adhesive to backside of U-Channels (against post) to hold in place if needed.

Use a small teardrop of glue in the inside corners of cap.



	Material List							
Qty Item Dimension WRHS USE ONLY								
1	Top Rail	1-3/4"x 3-1/2" x 95-3/4"*	1-3/4" X 3-1/2" X 8' Rail					
1	Mid Rail	1-1/2"x 5-1/2" x 95-3/4"*	1-1/2" x 5-1/2" X 8' Rail					
1	Bottom Rail	1-1/2"x 5-1/2 "x 95-3/4"*	1-1/2" x 5-1/2" X 8' Rail					
1	Aluminum	1-1/4"x 1-3/4" x 95-3/4"*	1-1/4" x 1-3/4" x 8'					
2	U Channels	1-1/8"x 1-1/4" x 48-1/2"*	48-1/2" U Channel					
17	Spindles	7/8"x 1-1/2 "x 14 1/4"*	7/8" x 1-1/2" x 59" Pickets					
15	Pickets	7/8"x 6" x 52"*	7/8" X 6" X 52" T&G					

- * Actual measurements may vary
- * Panel should be installed 2" off ground

Updated 01/31/2011

1

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PWPR-CT-6X8

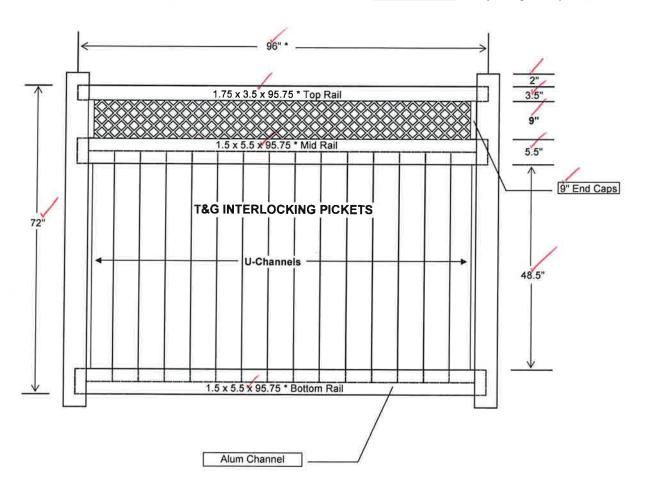
Test sample complies with these details.

Deviations are noted.

Report #	H	69:	23.0	1-1	19-19	
Date	12/	18	Tech	I	NG	

Ashton - Privacy with Lattice 6' High x 8' Wide Section

Note: If re-ordering additional product, please compare your existing specs with our current specs for any changes or updates.



UPDATED 5/02/08

1

PWPR-LAT-6X8UG				
Qty	Item	Dimension		
1	Top Rail	1.75" x 3.5" x 95.75"		
1	Mid Rail	1.5" x 5.5" x 95.75"		
1	Bott Rail	1.5" x 5.5" x 95.75"		
1	Alum Channel	Fits 1.5" x 5.5" x 95.75"		
2	U Channels	1.25" x 48.5"		
2	Lattice End Caps	.75 x 1.125 x 9*		
1	Lattice	12" x 90"		
15	Pickets	.875" x 6" x 52"		

^{*}Actual measurements may vary.

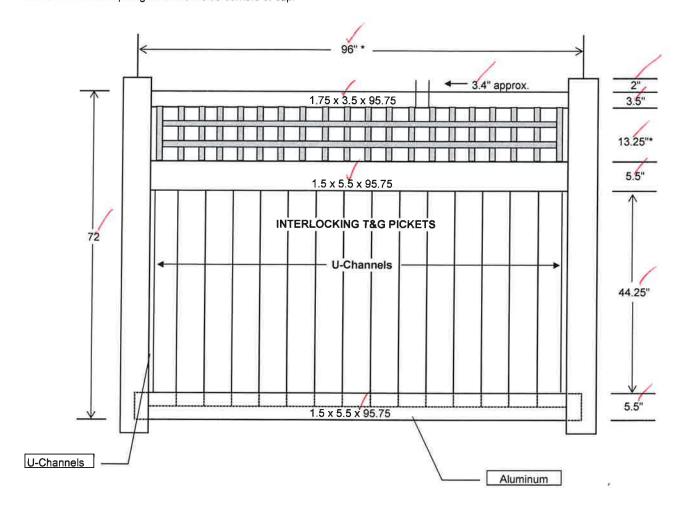
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Test sample complies with these details. Deviations are noted.

SCOTTSDALE 6' X 8'

Note: If re-ordering additional product, please compare your existing specs with our current specs for any changes or updates. Apply a small amount of adhesive to backside of U-Channels (against post) to hold in place if needed.

Use a small teardrop of glue in the inside corners of cap.



1

	Material List					
Qty	(Item	Dimension	WRHS USE ONLY			
1	Top Rail	1-3/4"x 3-1/2" x 95-3/4"*	1-3/4"x 3-1/2" x 8' Rail			
1	Mid Rail	1-1/2"x 5-1/2" x 95-3/4"*	1-1/2"x 5-1/2" x 8' Rail			
1	Bottom Rail	1-1/2"x 5-1/2 "x 95-3/4"*	1-1/2"x 5-1/2" x 8' Rail			
1	Aluminum	1-1/4"x 1-3/4" x 95-3/4"*	1-1/4"x 1-3/4" x 8"*			
2	U Channels	1-1/8"x 1-1/4" x 44-1/4"*	48-1/2" U Channel			
15	T&G Pickets	7/8"x 6" x 47-1/2"*	7/8"x 6" x 52" T&G			
2	Pickets	7/8"x 1-1/2 "x 89-1/2"*	7/8"x 1-1/2 "x 16'			
2	End Spindles	1-1/4" x 1-1/4" x 16-3/4"*	1-1/4" x 1-1/4" x 192"			
18	Spindles	1-1/4" x 1-1/4" x 16-3/4"*	1-1/4" x 1-1/4" x 192"			

- * Actual measurements may vary
- * Panel should be installed 2" off ground

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Updated 01/31/2011

Test sample complies with these details.

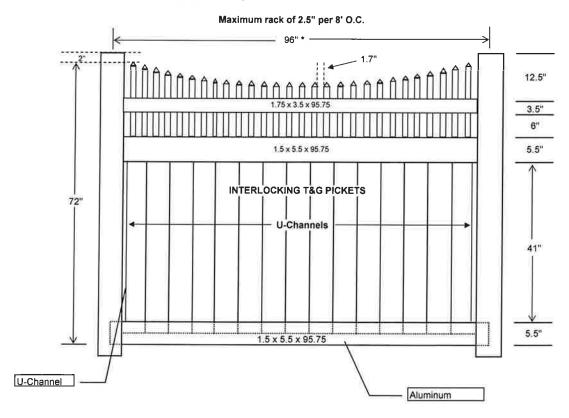
Deviations are noted.

Report # H6923.01-119-19

Date 1/12/18 Tech ING

PWPR-SQLAT-6X8UG

Use a small teardrop of glue in the inside corners of cap.



Material List					
Qty Item		Dimension	IWRHS USE ONLY		
1	Top Rail	1-3/4" x 3-1/2 "x 95-3/4"*	1-3/4 "x 3-1/2" x 8' Rail		
1	Mid Rail	1-1/2" x 5-1/2" x 95-3/4"*	1-1/2" x 5-1/2" x 8' Rail		
1	Bottom Rail	1-1/2" x 5-1/2" x 95-3/4"*	1-1/2" x 5-1/2" x 8' Rail		
1	Aluminum	1-1/4" x 1-3/4" x 95-3/4"	1-1/4" x 1-3/4" x 8'		
2	U Channels	1-1/8" x 1-1/4" x 41"	48-1/2" U Channel		
15	T&G Picket	7/8" x 6" x 44-1/2"*	7/8 "x 6 "x 52" T&G		
2	Spindle	7/8" x 1-1/2 "x 20-1/4"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8" x 1-1/2" x 19-1/2"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8 "x 1-1/2 "x 18-7/8"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8" x 1-1/2" x 18-1/8"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8" x 1-1/2" x 17-1/2"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8" x 1-1/2 "x 16-7/8"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8" x 1-1/2" x 16-1/4"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8" x 1-1/2" x 15-3/4"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8" x 1-1/2" x 15-1/4"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8" x 1-1/2" x 14-3/4"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8" x 1-1/2" x 14-3/8"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8" x 1-1/2" x 14"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8" x 1-1/2" x 13-7/8"	7/8" x 1-1/2" x 59" Picket		
2	Spindle	7/8 "x 1-1/2" x 13-3/4"	7/8" x 1-1/2" x 59" Picket		
28	Picket Caps	7/8" x 1-1/2 "	7/8 "x 1-1/2" Spade Cap		

^{*}Actual measurements may vary

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Test sample complies with these details.

Deviations are noted.

Report # H6923.01-119-19
Date 1/12/18 Tech IWG

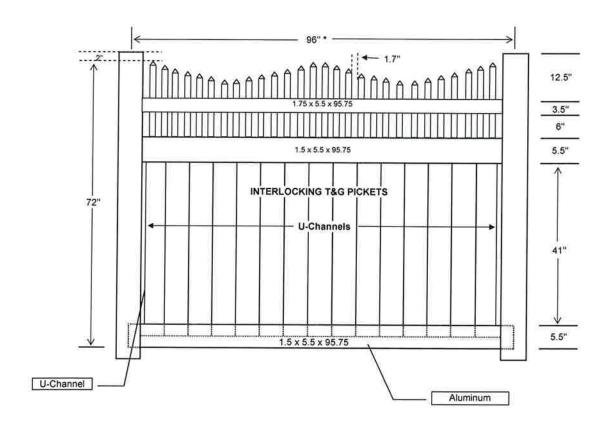
Not tested but qualified by Tremont PVC privacy fence.

PWPR-OTS-6X8

^{*}Panel should be installed 2" off ground

LOUISVILLE 6' x 8'

Use a small teardrop of glue in the inside corners of cap.



1

Material List				
Qty Item	Item Dimension		WRHS USE ONLY	
1	Top Rail	1-3/4" x 3-1/2 "x 95-3/4"*	1-3/4 "x 3-1/2" x 8' Rail	
1	Mid Rail	1-1/2" x 5-1/2" x 95-3/4"*	1-1/2" x 5-1/2" x 8' Rail	
1	Bottom Rail	1-1/2" x 5-1/2" x 95-3/4"*	1-1/2" x 5-1/2" x 8' Rail	
1	Aluminum	1-1/4" x 1-3/4" x 95-3/4"	1-1/4" x 1-3/4" x 8'	
2	U-Channel	1-1/8" x 1-1/4" x 41"*	48-1/2" U Channel	
15	Picket	7/8" x 6" x 44-1/2"*	7/8 "x 6 "x 52" T&G	
4	Spindle	7/8" x 1-1/2 "x 20-1/4"	7/8" x 1-1/2" x 59" Picket	
4	Spindle	7/8" x 1-1/2" x 19"*	7/8" x 1-1/2" x 59" Picket	
4	Spindle	7/8 "x 1-1/2 "x 17-5/8"	7/8" x 1-1/2" x 59" Picket	
4	Spindle	7/8" x 1-1/2" x 16-3/8"	7/8" x 1-1/2" x 59" Picket	
4	Spindle	7/8" x 1-1/2" x 15"	7/8" x 1-1/2" x 59" Picket	
4	Spindle	7/8" x 1-1/2 "x 14-3/8"	7/8" x 1-1/2" x 59" Picket	
4	Spindle	7/8" x 1-1/2" x 13-3/4"	7/8" x 1-1/2" x 59" Picket	
28	Picket Cap	7/8" x 1-1/2 "	7/8 "x 1-1/2" Spade Cap	

^{*}Actual measurements may vary

Updated 01/31/2011

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Test sample complies with these details.

Deviations are noted.

Report # #6923.01-119-19

Date 1/12/18 Tech Tab G

PWPR-OTS2-6X8UG

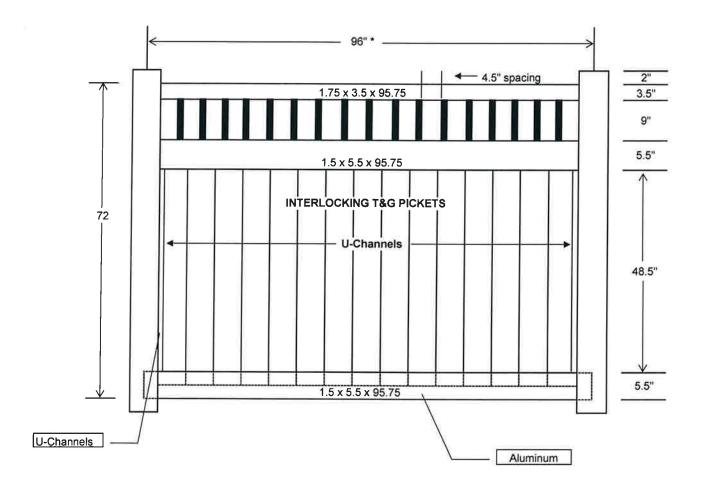
Not tested, but qualified by Tremont PVC privacy fence.

^{*}Panel should be installed 2" off ground

Bradford 6x8

Note: If re-ordering additional product, please <u>compare your existing specs with our current specs</u> for any changes or updates. Apply a small amount of adhesive to backside of U-Channels (against post) to hold in place if needed.

Use a small teardrop of glue in the inside corners of cap.



Material List					
Qty	Item	Dimension	WRHS USE ONLY		
1	Top Rail	1-3/4"x 3-1/2" x 95-3/4"*	1-3/4" X 3-1/2" X 8' Rail		
1	Mid Rail	1-1/2"x 5-1/2" x 95-3/4"*	1-1/2" x 5-1/2" X 8' Rail		
1	Bottom Rail	1-1/2"x 5-1/2 "x 95-3/4"*	1-1/2" x 5-1/2" X 8' Rail		
1	Aluminum	1-1/4"x 1-3/4" x 95-3/4"*	1-1/4" x 1-3/4" x 8'		
2	U Channels	1-1/8"x 1-1/4" x 48-1/2"*	48-1/2" U Channel		
17	Spindles	.75" Round Black Spindle	.75" Round Black Spindle		
15	Pickets	7/8"x 6" x 52"*	7/8" X 6" X 52" T&G		

^{*} Actual measurements may vary

intertek

Updated 11/10/2014

1

Test sample complies with these details.

Deviations are noted.

Report # H6923.01-119-19

Date 1/12/18 Tech TWG

PWPR-CTRND-6X8

Not tested, but qualified by Mason PVC privacy fence.

^{*} Panel should be installed 2" off ground

intertek

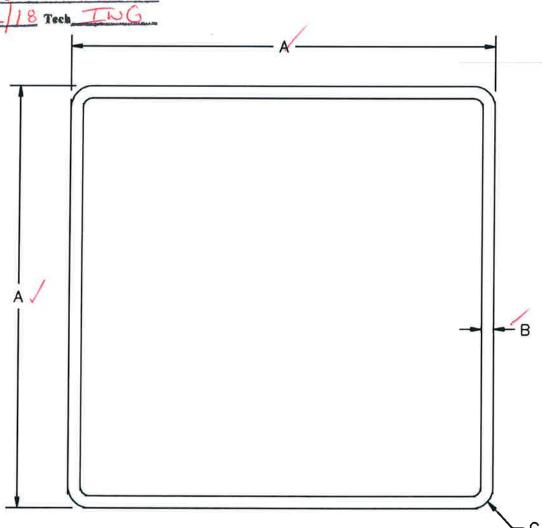
USA Vinyl, LLC

Test sample compiles with these details.

Deviations are noted.

5"x5" POST

Report # H6923.01-119-19

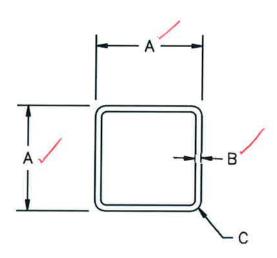


- A. WIDTH OUTSIDE = 5.000 ± 0.012
- B. NOMINAL WALL THICKNESS = 0.145±0.010
- C. OUTSIDE CORNER RADIUS = 0.250

WEIGHT PER FOOT - - - = 1.700 LBS. OVERALL LENGTHS - - - = 5', 6', 6.5', 7', 7.5', 8', 8.5', 9', 9.5' 10', 12', 16'

USA Vinyl, LLC

1 1/4"x1 1/4" PICKET



- A. WIDTH OUTSIDE = 1.250 ± 0.015
- B. NOMINAL WALL THICKNESS = 0.071 ± 0.006
- C. OUTSIDE CORNER RADIUS = 0.125

WEIGHT PER FOOT - - - = 0.206 LBS. OVERALL LENGTHS - - - = 16' (BUNDLED)

intertek

Test sample complies with these details.

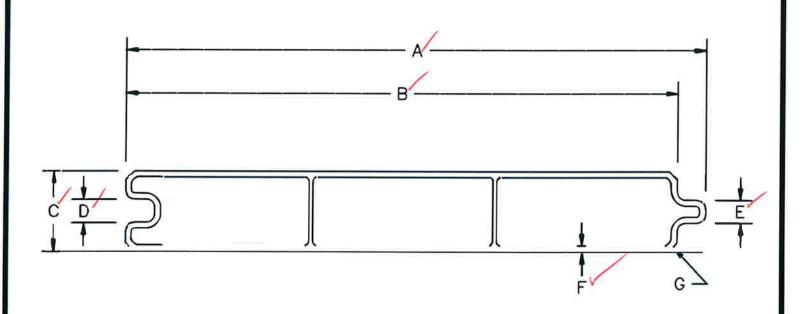
Deviations are noted.

Report# #6923.01-119-19

Date 1/12/18 Tech TWG

USA Vinyl, LLC

7/8"x6" TONGUE & GROOVE PICKET



- A. OVERALL WIDTH OUTSIDE = 6.312 ± 0.020
- B. INTERLOCKED WIDTH OUTSIDE = 6.000 ± 0.020
- C. WIDTH OUTSIDE = 0.875 ± 0.015
- D. GROOVE WIDTH = 0.260 ± 0.005
- E. TONGUE WIDTH = 0.240 ± 0.005
- F. NOMINAL WALL THICKNESS = 0.065±0.005
- \square CORNER CHAMFER = 0.093x0.093

WEIGHT PER FOOT - - - = 0.634 LBS. OVERALL—LENGTHS - - - = 16' (BUNDLED)

intertek

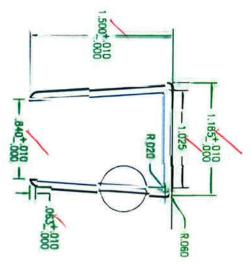
Test	sam ple	complies	with	these	details.
	D.			hete	

Report # H6923.01-119-19

Date 1/2/18 Tech Th09

DRAWING-STATUS SCALE 2X 9 H Date 1/12/18 Tech TWG

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OUTERWALL THICKNESS .080"

CAP-STOCK THICKNESS .010" MIN

intertek

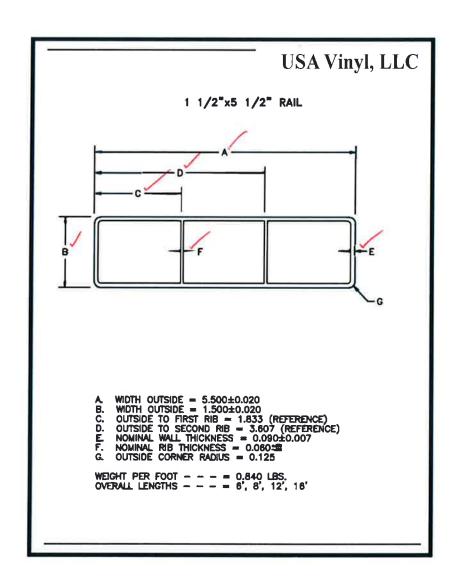
Report # Test sample complies with these details. Deviations are noted. H6923.01-119-19

TOLERANCE - DECEMIL AND FABRICATION - W.O.S.

FABRICATION ± 1/16

MI LINGSHOP 125 USA Vinyl, LLC

DIE NAME FILE-NAME	BATHERSO : AB NIMOD	SHEET NO. SHEET/	MATERIAL: MATERIAL	DMG. MO. DRAWING	THE U-CHANNEL	
		DATE: 9/28/12	SOME 1:1	REV: REVISION	ASSY NO. ASSEMBLY	



intertek

Test sample complies with these details.

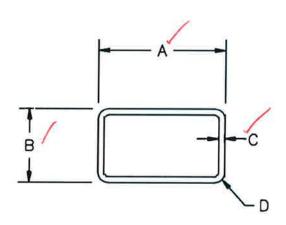
Deviations are noted.

Report # H6923.01-119-19

Date 1/12/18 Tech TWG

USA Vinyl, LLC

7/8"x1 1/2" PICKET



- WIDTH OUTSIDE = 1.500 ± 0.008
- WIDTH OUTSIDE = 0.875 ± 0.005
- NOMINAL WALL THICKNESS = 0.071 ± 0.006
- OUTSIDE CORNER RADIUS = 0.125

WEIGHT PER FOOT - - - = 0.196 LBS. OVERALL LENGTHS - - - = 16' (BUNDLED)

intertek

Test sample complies with these details.

Deviations are noted.

Report # H6923, 01-119-19

Tech_ThG

intertek

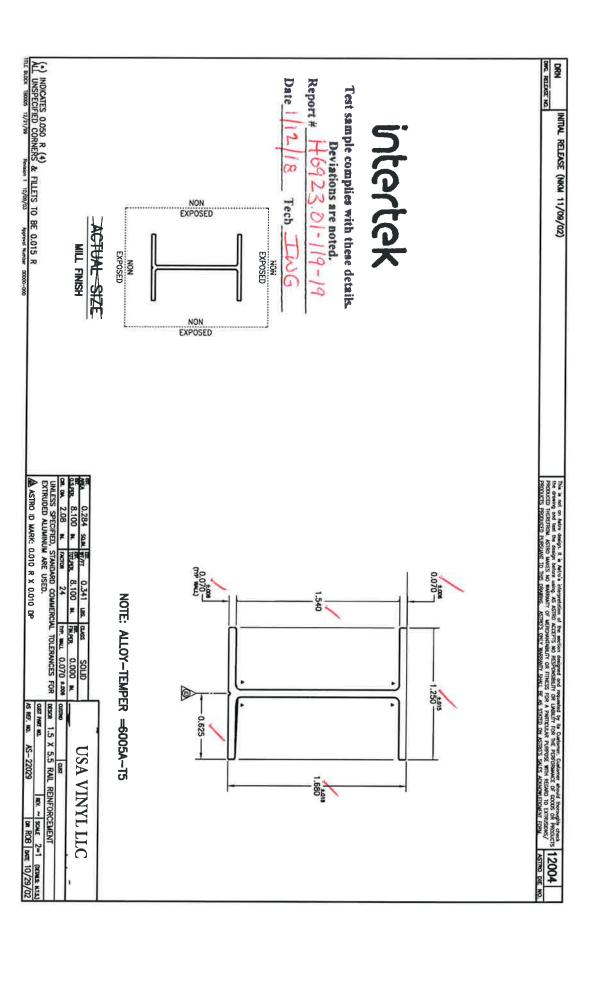
Test sample complies with these details.

Deviations are noted.

Report # H6923.01-119-19

Tech ING

DRN DWG. ROLEASE NO. INITIAL RELEASE (NKM 12/09/02) NON EXPOSED ACTUAL SIZE NON NON NON EXPOSED ASTRO ID WARK: 0.010 R X 0.010 DP 4.620 -1.000 1.000 NOTE: ALLOY-TEMPER =6005A-T5 TOLERANCES FOR 0.110 4.620 2.620-4.620-DESCR 5X5 POST REINFORCEMENT USA VINYL LLC 1.000 1.000 -SOME 1=1 (SCHIR KTS)
DR JCV (SWE 12/03/02 2.610 2.010 12079





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

TEST REPORT FOR WEATHERABLES

Report No.: H6923.01-119-19 R0

Date: 01/15/18

SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	01/15/18	N/A	Original Report Issue