

NATURES COMPOSITES TEST REPORT

SCOPE OF WORK

DYNAMIC WIND LOAD PERFORMANCE TEST OF *NCTERRA* COMPOSITE PRIVACY FENCE ASSEMBLIES

REPORT NUMBER

Q6380.01-119-19 R1

TEST DATES

12/05/23 - 12/06/23

ISSUE DATE

01/22/24

REVISED DATE

01/26/24

RECORD RETENTION END DATE

12/06/27

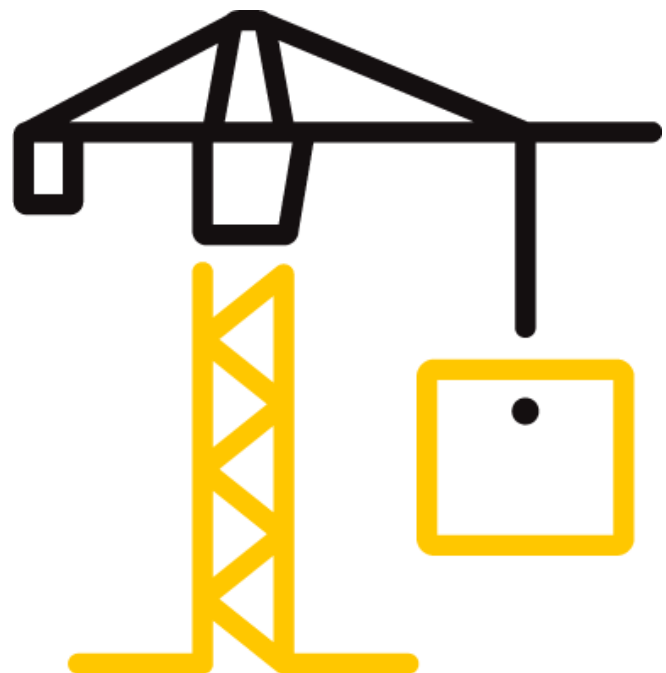
PAGES

26

DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2797 (07/12/22)

© 2017 INTERTEK



TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

Date: 01/22/24

REPORT ISSUED TO

NATURES COMPOSITES

1302 Industrial Park Avenue
Torrington, Wyoming 82240

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Natures Composites to perform dynamic wind load testing on their *NCterra* composite privacy fence systems. Results obtained are tested values and were secured through the test procedure outlined below. Testing was conducted at Intertek B&C's test facility in York, PA where testing was completed.

Intertek B&C in York, Pennsylvania has demonstrated compliance with ISO/IEC International Standard 17025 and is consequently accredited as a Testing Laboratory (TL-144) by International Accreditation Service, Inc. (IAS).

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. 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 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, or other pertinent project documentation, will be retained for the entire test record retention period.

For INTERTEK B&C:

COMPLETED BY:	Jordan M. Gault
TITLE:	Technician III
SIGNATURE:	
DATE:	01/26/24

REVIEWED BY:	Travis A. Hoover
TITLE:	Senior Manager
SIGNATURE:	
DATE:	01/26/24

JMG:tah/aas

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

Date: 01/22/24

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 by representatives from Natures Composites.

SECTION 3

EQUIPMENT

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

SECTION 4

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Jordan M. Gault	Intertek B&C
Adam J. Schrum	Intertek B&C
Shawn E. Beamer	Intertek B&C
John Mitchell	Natures Composites
Roberto Lebrija	Natures Composites

TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

Date: 01/22/24

SECTION 5

TEST PROCEDURES

One specimen of each of the following 2-panel/3-post fully assembled privacy fence sections were tested:

- 69 in wide by 69 in high *NCterra* full privacy horizontal fence
- 74 in wide by 72 in high *NCterra* commercial full privacy horizontal fence
- 74 in wide by 96 in high *NCterra* commercial full privacy horizontal fence

See drawings in Section 10 for detailed descriptions of components.

A steel test fixture was designed and fabricated to simulate a rigid post embedment. The bottom of the bottom rail was fixed 2 in above the top of the test fixture. Each wind generator outlet was located 4 ft from the face of the specimen and centered on the fence panel. Linear transducers were fixed on the midspan of the top rail, middle of each infill area, and midspan of the bottom rail for deflection measurements. See drawings in Section 10 for detailed descriptions of components and photographs in Section 9 for specimen orientation with respect to wind direction.

Wind load testing began at 30 mph and increased until failure or a maximum wind speed of 130 mph. Wind loads were performed with a relaxation period, following 50, 80, 115, and 130 mph wind loads, to record permanent set measurements.

TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

Date: 01/22/24

SECTION 6

TEST CALCULATIONS

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

$$t = 3600 / V_{fm} \quad \text{(Equation 1)}$$

where:

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

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

SECTION 7

TEST SPECIMEN DESCRIPTIONS

Test Specimen No. 1

SERIES/MODEL	6 ft <i>NCterra</i> Full Privacy Horizontal Fence
DESCRIPTION	69 in wide by 69 in high composite privacy fence
PANELS	Eleven, 6-3/8 in wide by 66 in long by 0.142 in thick Hollow T&G Pickets, per panel
POSTS	Two, 2-9/16 in wide by 93-3/16 in high by 2-5/8 in deep by 0.983 in thick Composite C Post T&G Fit, per panel. One 2-1/2 in wide by 2-1/2 in long by 5/8 in deep plastic Top Cap inserted into the routed space of the top of each Composite C Post T&G Fit and secured with one #10 x 1-3/4 in self-drilling composite screw.
TOP ALIGNMENT COMPONENT	<u>Top Cable Assembly</u> : One, 1/16 in steel 7x7 strand core cable spanning from post to post. The top cable assembly slides into grooves of the Composite C Post T&G Fit allowing the cable to rest in the grooved portion of the top Hollow T&G Picket
BOTTOM ALIGNMENT COMPONENT / GROUND CLEARANCE SPACER	<u>Base Cable Assembly (Broad Stop) to Post</u> : One, 1-5/8 in wide by 4 in tall by 7/8 in deep Support block T&G Fit located at each bottom end of the post, attached to posts with two #10 x 1-3/4 in self-drilling composite screws. The Support block T&G Fit includes a 1/16 in steel 7x7 strand core cable which spans from post to post

TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

Date: 01/22/24

Test Specimen No. 2

SERIES/MODEL	6 ft <i>NCterra</i> Commercial Full Privacy Horizontal Fence
DESCRIPTION	74 in wide by 72 in high composite privacy fence
PANELS	Eleven, 6-3/8 in wide by 66 in long by 0.142 in thick Hollow T&G Pickets, per panel
POSTS	Two, 2-9/16 in wide by 93-3/16 in high by 2-5/8 in deep by 0.983 in thick Composite C Post T&G Fit, attached to two, 5 in wide by 5 in deep by 95 in high by 1/2 in thick composite hollow posts with eight #10 x 1-3/4 in self-drilling composite screws, per panel. One 2-1/2 in wide by 2-1/2 in long by 5/8 in deep plastic Top Cap inserted into the routed space of the top of each Composite C Post T&G Fit and secured with one #10 x 1-3/4 in self-drilling composite screw.
TOP ALIGNMENT COMPONENT	<u>Top Cable Assembly</u> : One, 1/16 in steel 7x7 strand core cable spanning from post to post. The top cable assembly slides into grooves of the Composite C Post T&G Fit allowing the cable to rest in the grooved portion of the top Hollow T&G Picket
BOTTOM ALIGNMENT COMPONENT / GROUND CLEARANCE SPACER	<u>Base Cable Assembly (Broad Stop) to Post</u> : One, 1-5/8 in wide by 4 in tall by 7/8 in deep Support block T&G Fit located at each bottom end of the post, attached to posts with two #10 x 1-3/4 in self-drilling composite screws. The Support block T&G Fit includes a 1/16 in steel 7x7 strand core cable which spans from post to post

TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

Date: 01/22/24

Test Specimen No. 3

SERIES/MODEL	8 ft <i>NCterra</i> Commercial Full Privacy Horizontal Fence
DESCRIPTION	74 in wide by 96 in high (nominal) composite privacy fence
PANELS	Fifteen, 6-3/8 in wide by 66 in long by 0.142 in thick Hollow T&G Pickets, per panel
POSTS	Two, 2-9/16 in wide by 131 in high by 2-5/8 in deep by 0.983 in thick Composite C Post T&G Fit, attached to two, 5 in wide by 5 in deep by 131 in long by 1/2 in thick composite hollow posts with eight #10 x 1-3/4 in self-drilling composite screws, per panel. One 2-1/2 in wide by 2-1/2 in long by 5/8 in deep plastic Top Cap inserted into the routed space of the top of each Composite C Post T&G Fit and secured with one #10 x 1-3/4 in self-drilling composite screw.
TOP ALIGNMENT COMPONENT	<u>Top Cable Assembly</u> : One, 1/16 in steel 7x7 strand core cable spanning from post to post. The top cable assembly slides into grooves of the Composite C Post T&G Fit allowing the cable to rest in the grooved portion of the top Hollow T&G Picket
BOTTOM ALIGNMENT COMPONENT / GROUND CLEARANCE SPACER	<u>Base Cable Assembly (Broad Stop) to Post</u> : One, 1-5/8 in wide by 4 in tall by 7/8 in deep Support block T&G Fit located at each bottom end of the post, attached to posts with two #10 x 1-3/4 in self-drilling composite screws. The Support block T&G Fit includes a 1/16 in steel 7x7 strand core cable which spans from post to post

TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

Date: 01/22/24

SECTION 8

TEST RESULTS

Test Specimen No. 1 - 6 ft NCterra Full Privacy Horizontal Fence

Test Date: 12/05/23

WIND SPEED	DURATION	MAXIMUM DEFLECTION (in)					
		LEFT			RIGHT		
		TOP	MID	BOTTOM	TOP	MID	BOTTOM
30 mph	120 sec.	0.57	0.33	0.03	0.52	0.35	0.09
40 mph	90 sec.	0.99	0.47	0.10	1.08	0.58	0.15
50 mph	72 sec.	2.07	1.13	0.27	1.95	1.05	0.23
Permanent Set		0.03	0.04	0.05	0.04	0.06	0.06
60 mph	60 sec.	3.35	1.71	0.35	2.72	1.43	0.36
70 mph	51 sec.	3.40	1.87	0.55	3.04	1.72	0.43
80 mph	45 sec.	4.45	2.36	0.79	4.39	2.41	0.56
Permanent Set		0.51	0.27	0.06	0.46	0.18	0.04
90 mph	40 sec.	6.96	3.40	0.84	6.23	3.28	0.73
100 mph	36 sec.	8.01	4.27	1.26	7.66	4.15	0.91
115 mph	31 sec.	--	--	--	--	--	--
Permanent Set		--	--	--	--	--	--

Observation: Specimen failed upon reaching 115 mph target. Posts sheared at base.

Maximum Sustained Wind, $V_{fm} = 100$ mph

Equivalent 3-second gust, $V_{3s, ASD} = (1.05 \times V_{fm}) + 10.5 = 116$ mph

Equivalent 3-second gust, $V_{3s, LRFD} = \frac{V_{3s, ASD}}{\sqrt{0.6}} = 150$ mph

TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

Date: 01/22/24

Test Specimen No. 2 - 6 ft *NCterra* Commercial Full Privacy Horizontal Fence

Test Date: 12/05/23

WIND SPEED	DURATION	MAXIMUM DEFLECTION (in)					
		LEFT			RIGHT		
		TOP	MID	BOTTOM	TOP	MID	BOTTOM
30 mph	120 sec.	0.32	0.21	0.10	0.31	0.27	0.14
40 mph	90 sec.	0.55	0.35	0.16	0.50	0.41	0.18
50 mph	72 sec.	0.83	0.54	0.25	0.76	0.61	0.26
Permanent Set		0.17	0.08	0.03	0.11	0.06	0.00
60 mph	60 sec.	1.23	0.84	0.42	1.05	0.78	0.36
70 mph	51 sec.	1.53	0.96	0.46	1.42	0.95	0.40
80 mph	45 sec.	1.95	1.22	0.60	1.61	1.14	0.50
Permanent Set		0.44	0.20	0.05	0.27	0.12	0.00
90 mph	40 sec.	2.29	1.54	0.69	2.47	1.65	0.69
100 mph	36 sec.	2.67	1.88	0.84	2.57	1.67	0.79
115 mph	31 sec.	3.31	2.29	1.07	-- ¹	2.34	1.07
Permanent Set		0.75	0.33	0.09	--	0.25	0.06
120 mph	30 sec.	3.34	2.29	1.09	--	2.75	1.23
130 mph	28 sec.	4.19	2.97	1.43	--	3.14	1.43
Permanent Set		1.17	0.45	0.16	--	0.39	0.11

¹ Top right transducer fell off of the specimen.

Maximum Sustained Wind, $V_{fm} = 130$ mph

Equivalent 3-second gust, $V_{3s, ASD} = (1.05 \times V_{fm}) + 10.5 = 147$ mph

Equivalent 3-second gust, $V_{3s, LRFD} = \frac{V_{3s, ASD}}{\sqrt{0.6}} = 190$ mph

TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

Date: 01/22/24

Test Specimen No. 3 - 8 ft NCTerra Commercial Full Privacy Horizontal Fence

Test Date: 12/06/23

WIND SPEED	DURATION	MAXIMUM DEFLECTION (in)					
		LEFT			RIGHT		
		TOP	MID	BOTTOM	TOP	MID	BOTTOM
30 mph	120 sec.	0.21	0.12	0.03	0.32	0.21	0.06
40 mph	90 sec.	0.47	0.30	0.07	0.59	0.37	0.11
50 mph	72 sec.	0.91	0.50	0.13	0.97	0.64	0.16
Permanent Set		0.08	0.04	0.00	0.02	0.02	0.01
60 mph	60 sec.	1.80	0.86	0.21	1.57	1.00	0.25
70 mph	51 sec.	2.26	1.17	0.26	2.00	1.17	0.30
80 mph	45 sec.	2.62	1.52	0.30	2.71	1.63	0.42
Permanent Set		0.38	0.17	0.01	0.25	0.14	0.02
90 mph	40 sec.	3.78	2.09	0.45	3.23	2.10	0.55
100 mph	36 sec.	4.47	2.64	0.50	4.21	2.45	0.66
115 mph	31 sec.	5.60	3.25	0.65	5.13	3.14	0.78
Permanent Set		0.86	0.39	0.05	0.65	0.34	0.00
120 mph	30 sec.	6.80	3.54	0.74	6.72	4.02	1.01
130 mph	28 sec.	8.70	4.59	1.01	8.42	4.62	1.18
Permanent Set		1.16	0.51	0.27	1.26	0.52	0.03

Maximum Sustained Wind, $V_{fm} = 130$ mph

Equivalent 3-second gust, $V_{3s, ASD} = (1.05 \times V_{fm}) + 10.5 = 147$ mph

Equivalent 3-second gust, $V_{3s, LRFD} = \frac{V_{3s, ASD}}{\sqrt{0.6}} = 190$ mph

TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

Date: 01/22/24

SECTION 9 PHOTOGRAPHS



Photo No. 1

Test Setup (Front Side) - Wind Generator Relative to Test Specimen



Photo No. 2

Test Setup (Back Side)

TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

Date: 01/22/24



Photo No. 3

8 ft NCTerra Commercial Full Privacy Horizontal Fence (Front Side)



Photo No. 4

6 ft NCTerra Full Privacy Horizontal Fence (Front Side)



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

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

TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

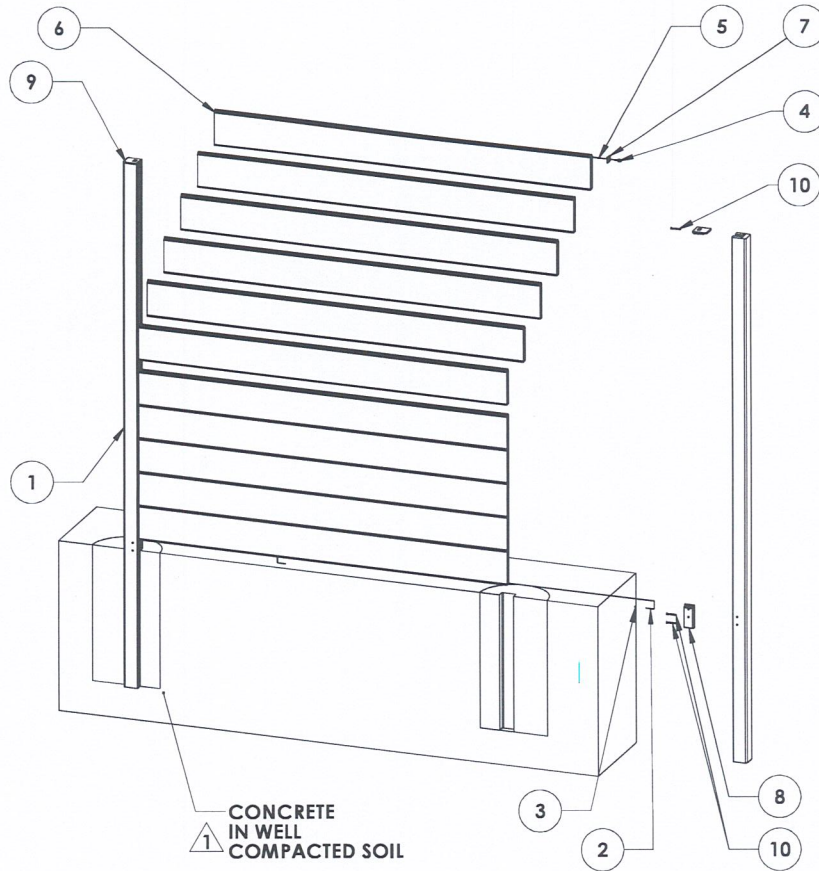
Date: 01/22/24

SECTION 10 DRAWINGS

The "As-Built" drawings for the various PVC privacy fence systems 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.

NOTES

- 1. SHOWN RECOMMENDED FOOTER. FOR STRUCTURAL LOADS, FOOTINGS SHALL BE DESIGNED BY OTHER IN ACCORDANCE WITH LOCAL CODES. IN CASES WHERE DESIGN REQUIRES DEEPER BURIAL DEPTH OF POST THE LENGTH OF THE POST SHALL BE INCREASED ACCORDINGLY.
- 2. FIRST AND/OR LAST FENCE BOARD MAY HAVE TO BE CUT TO THE CORRECT WIDTH TO FIT WITHIN FENCE PANEL DUE TO POST SPACING VARIATIONS.



1. CONCRETE IN WELL COMPACTED SOIL

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NATURES COMPOSITES, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NATURES COMPOSITES, LLC IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	07/03/2023	AFM
A	UPDATED PARTS REQUIRED	12/1/2023	AFM

intertek

Test sample complies with these details.
 Deviations are noted.

Report # Q6380.01-119-19
 Date 1/19/24 Tech uf

10	ACSCR #10x1-3/4	Screw, Composite 10x1-3/4"	6
9	200721	Top Cap T&G Fit	2
8	200720	Support Block T&G Fit	2
7	200726	Top Cable Stop	2
6	300340	Hollow T&G Picket	11
5	TBD	Wire Compression Sleeve 1/16" Aluminum	2
4	TBD	Top Wire Rope 1/16" Galvanized Steel 7x7 Strand Core	1
3	TBD	Wire Stop 1/16" Aluminum	2
2	TBD	Bottom Wire Rope 1/16" Galvanized Steel 7x7 Strand Core	1
1	300722	Composite C Post T&G Fit	2

ITEM NO.	Part NO	DESCRIPTION	QTY.
----------	---------	-------------	------

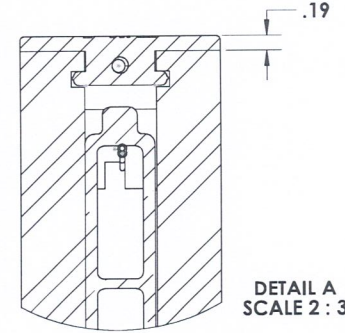
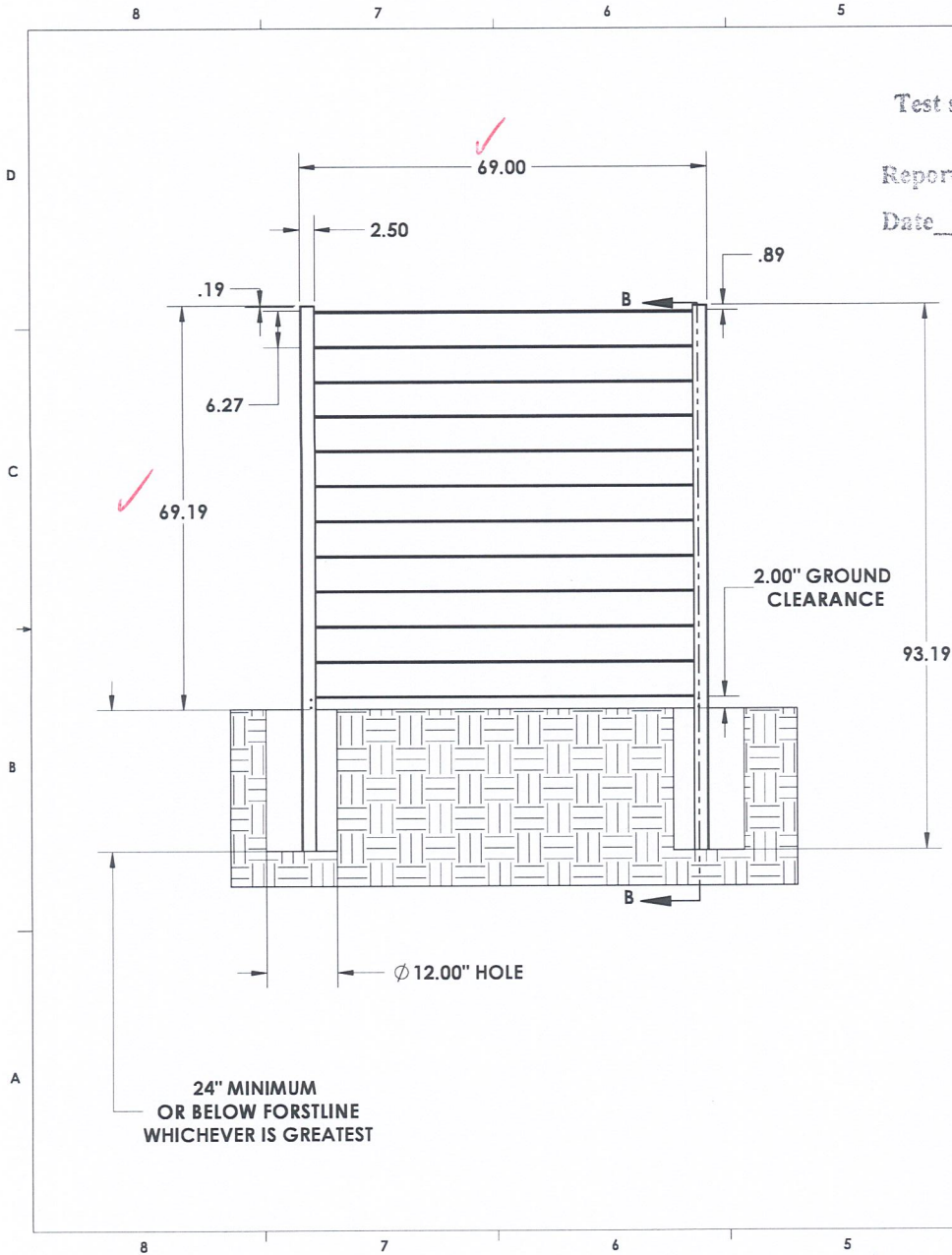
BOM Table

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	 <small>1302 Industrial Park Avenue, Fort Mill, SC 29504 (803) 547-9942 www.naturescomposites.com</small>	
DIMENSIONS ARE IN INCHES	DRAWN	A.F. MITCHELL	07/03/2023		
TOLERANCES:	ENG APPR.			TITLE:	
FRACTIONAL: ±1/16"				FULL PRIVACY COMPOSITE POST 6 FT TALL X 6 FT WIDE	
ANGULAR: MACH: 1" BEND ±5°					SIZE
TWO PLACE DECIMAL: ±.010					DWG. NO.
THREE PLACE DECIMAL: ±.005				REV	
INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			B 000 A	
MATERIAL:					
FINISH:					
DO NOT SCALE DRAWING					

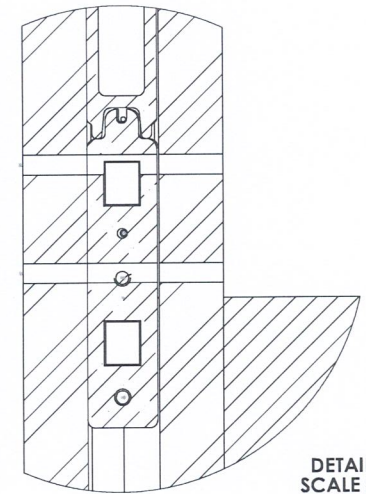
Test sample complies with these details.
Deviations are noted.

Report # Q6380.01-119-19

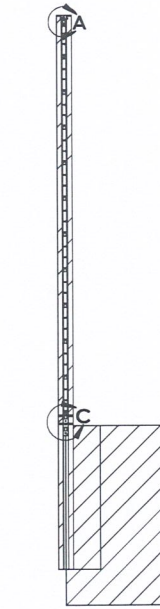
Date 1/19/24 Tech af



DETAIL A
SCALE 2 : 3



DETAIL C
SCALE 2 : 3



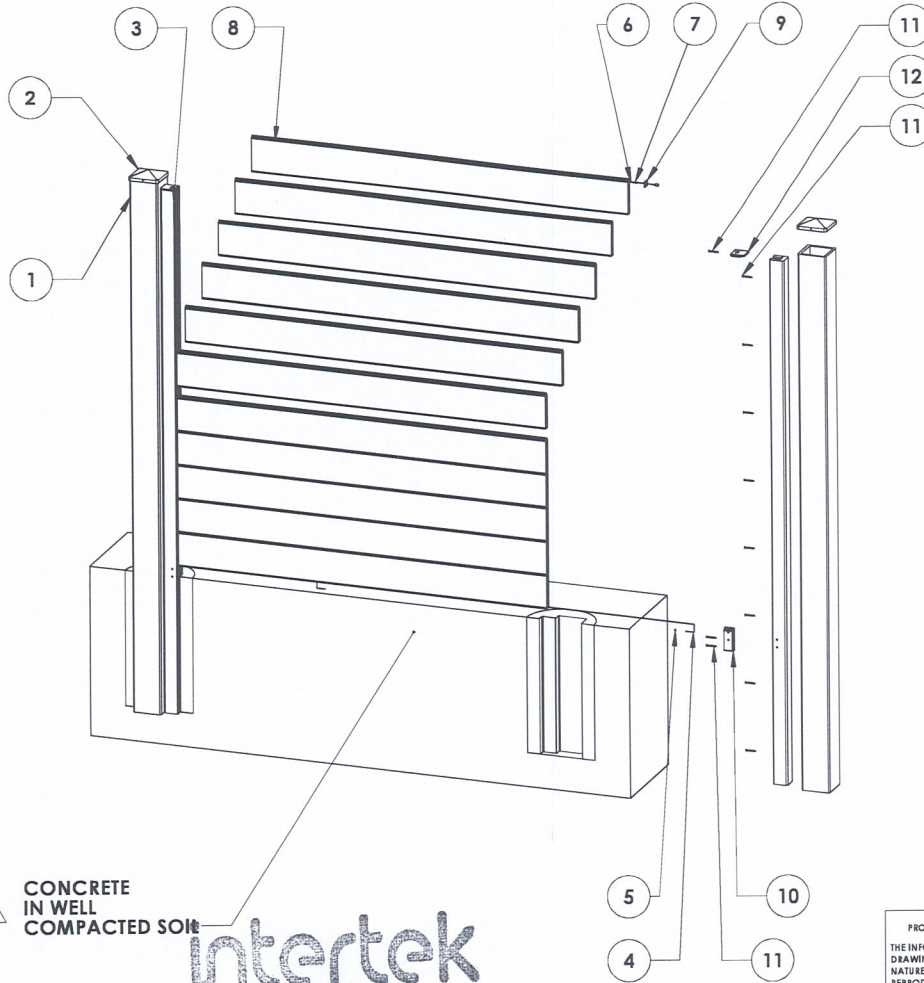
SECTION B-B

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	 <small>1302 INDUSTRIAL PARK AVENUE, SUITE 100, WILMINGTON, DE 19804 307.532.9942 WWW.NATURESCOMPOSITES.COM</small>		
DRAWN	A.F. MITCHELL	07/03/2023			TITLE:	
ENG APPR.				FULL PRIVACY COMPOSITE POST 6 FT TALL X 6 FT WIDE		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ±1/16" ANGULAR: MACH ± 1° BEND ±5° TWO PLACE DECIMAL: ±.010 THREE PLACE DECIMAL: ±.005				SIZE	DWG. NO.	REV
INTERPRET GEOMETRIC TOLERANCING PER:				B	000	A
MATERIAL: AS SPECIFIED				SHEET 2 OF 2		
FINISH: AS SPECIFIED						
DO NOT SCALE DRAWING						

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
NATURES COMPOSITES, LLC. ANY
REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
NATURES COMPOSITES, LLC IS PROHIBITED.

NOTES

1. SHOWN RECOMMENDED FOOTER. FOR STRUCTURAL LOADS, FOOTINGS SHALL BE DESIGNED BY OTHER IN ACCORDANCE WITH LOCAL CODES. IN CASES WHERE DESIGN REQUIRES DEEPER BURIAL DEPTH OF POST THE LENGTH OF THE POST SHALL BE INCREASED ACCORDINGLY.



1. CONCRETE IN WELL COMPACTED SOIL

intertek

Test sample complies with these details.

Deviations are noted.

Report # Q6380.01-119-19

Date 1/19/24 Tech [Signature]

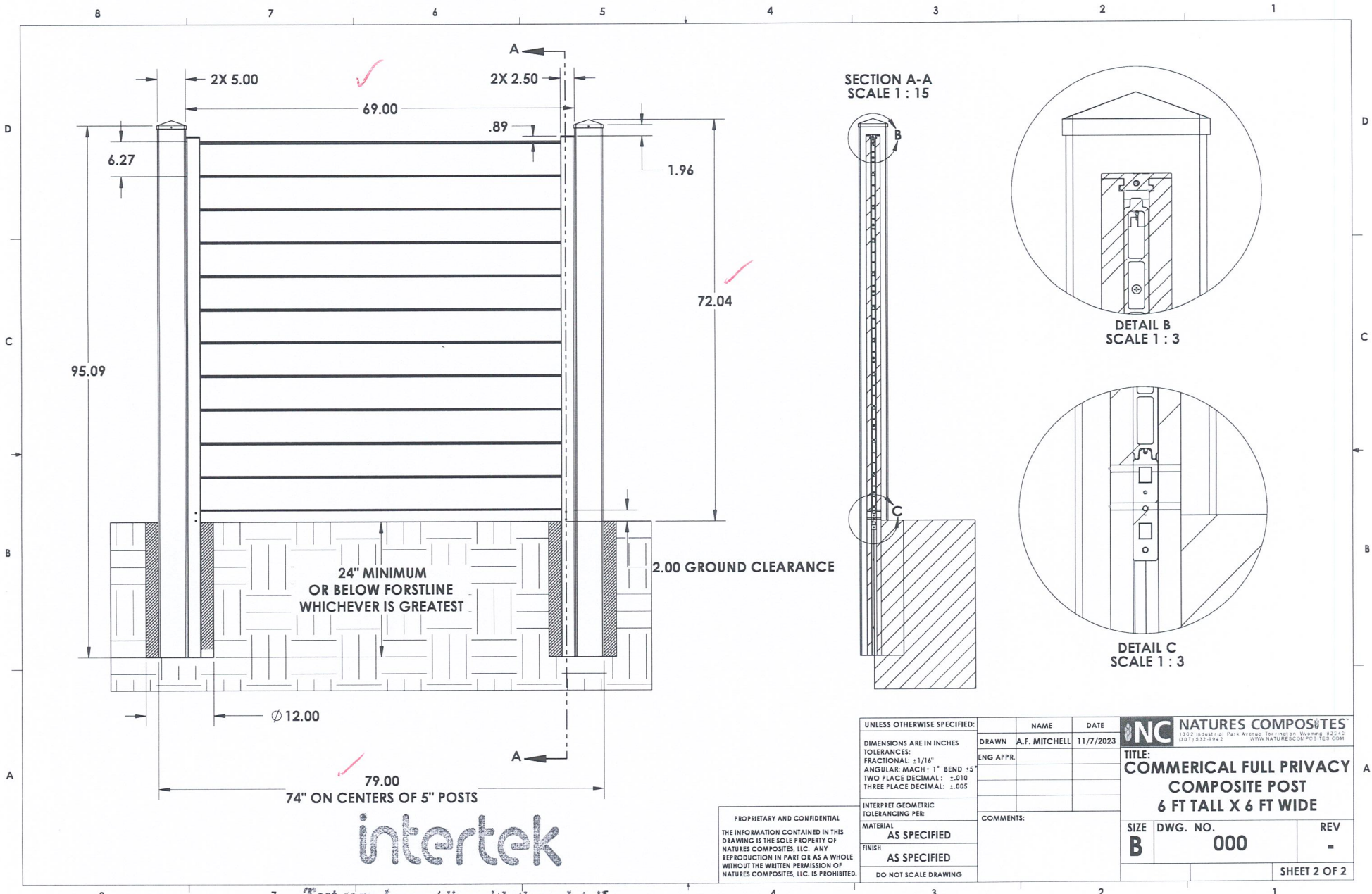
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	11/07/2023	AFM

12	200721	Top Cap T&G Fit	2
11	ACSCR#10x1-3/4	Screw, Composite 10x1-3/4"	22
10	200720	Support Block T&G Fit	2
9	200726	Top Cable Stop	2
8	300340	Hollow T&G Picket	11
7	TBD	Wire Compression Sleeve 1/16" Aluminum	2
6	TBD	Top Wire Rope 1/16" Galvanized Steel 7x7 Strand Core	1
5	TBD	Wire Stop 1/16" Aluminum	2
4	TBD	Bottom Wire Rope 1/16" Galvanized Steel 7x7 Strand Core	1
3	300722	Composite C Post T&G Fit	2
2	ACPC755POSTCAP-HORSE	POST CAP, 5 X 5	2
1	300755	5"x5" Composite Hollow Post	2
ITEM NO.	Part NO	DESCRIPTION	QTY.

BOM Table

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<p>NC NATURES COMPOSITES 1302 Industrial Park Avenue, Fort Worth, Wyoming 82449 (507) 532-9942 www.naturescomposites.com</p>						
DIMENSIONS ARE IN INCHES		DRAWN	A.F. MITCHELL		11/7/2023					
TOLERANCES:		ENG APPR.								
FRACTIONAL: ±1/16"										
ANGULAR: MACH: 1° BEND ±5°										
TWO PLACE DECIMAL: ±.010										
THREE PLACE DECIMAL: ±.005										
INTERPRET GEOMETRIC TOLERANCING PER:		COMMENTS:		<p>TITLE: COMMERCIAL FULL PRIVACY COMPOSITE POST 6 FT TALL X 6 FT WIDE</p> <table border="1"> <tr> <td>SIZE</td> <td>DWG. NO.</td> <td>REV</td> </tr> <tr> <td>B</td> <td>000</td> <td>-</td> </tr> </table>	SIZE	DWG. NO.	REV	B	000	-
SIZE	DWG. NO.	REV								
B	000	-								
MATERIAL:		AS SPECIFIED								
FINISH:		AS SPECIFIED								
DO NOT SCALE DRAWING										

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NATURES COMPOSITES, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NATURES COMPOSITES, LLC. IS PROHIBITED.



24" MINIMUM
OR BELOW FORSLINE
WHICHEVER IS GREATEST

2.00 GROUND CLEARANCE

Ø 12.00
79.00
74" ON CENTERS OF 5" POSTS

SECTION A-A
SCALE 1 : 15

DETAIL B
SCALE 1 : 3

DETAIL C
SCALE 1 : 3

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DRAWN	A.F. MITCHELL		11/7/2023
ENG APPR.			
DIMENSIONS ARE IN INCHES			
TOLERANCES:			
FRACTIONAL: ±1/16"			
ANGULAR: MACH: 1° BEND ±5°			
TWO PLACE DECIMAL: ±.010			
THREE PLACE DECIMAL: ±.005			
INTERPRET GEOMETRIC TOLERANCING PER:			
MATERIAL:	AS SPECIFIED	COMMENTS:	
FINISH:	AS SPECIFIED		
DO NOT SCALE DRAWING			

NC NATURES COMPOSITES
1332 NORDAL RD, P.O. BOX 101, FORT COCKERHAM, GA 30742
(307) 532-9943 WWW.NATURESCOMPOSITES.COM

TITLE:
**COMMERCIAL FULL PRIVACY
COMPOSITE POST
6 FT TALL X 6 FT WIDE**

SIZE	DWG. NO.	REV
B	000	-

SHEET 2 OF 2

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NATURES COMPOSITES, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NATURES COMPOSITES, LLC IS PROHIBITED.

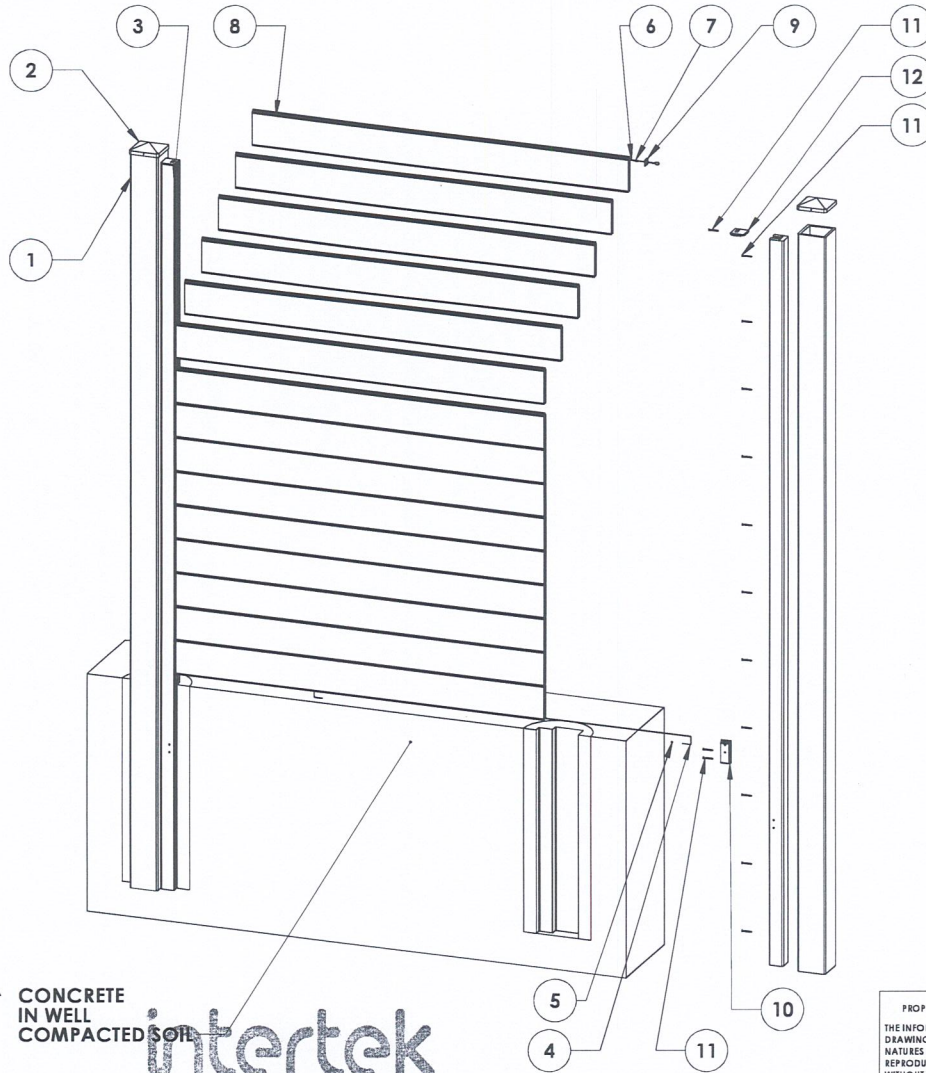
intertek

Test sample complies with these details.
Deviations are noted.

Report # Q6380.01-119-19
Date 1/19/24 Tech zcb

NOTES

1 SHOWN RECOMMENDED FOOTER. FOR STRUCTURAL LOADS, FOOTINGS SHALL BE DESIGNED BY OTHER IN ACCORDANCE WITH LOCAL CODES. IN CASES WHERE DESIGN REQUIRES DEEPER BURIAL DEPTH OF POST THE LENGTH OF THE POST SHALL BE INCREASED ACCORDINGLY.



CONCRETE IN WELL COMPACTED SOIL



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NATURES COMPOSITES, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NATURES COMPOSITES, LLC. IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
X	INITIAL RELEASE	11/14/2023	AFM

12	200721	Top Cap T&G Fit	2
11	ACSCR#10x1-3/4	Screw, Composite 10x1-3/4"	28
10	200720	Support Block T&G Fit	2
9	200726	Top Cable Stop	2
8	300340	Hollow T&G Picket	15
7	TBD	Wire Compression Sleeve 1/16" Aluminum	2
6	TBD	Top Wire Rope 1/16" Galvanized Steel 7x7 Strand Core	1
5	TBD	Wire Stop 1/16" Aluminum	2
4	TBD	Bottom Wire Rope 1/16" Galvanized Steel 7x7 Strand Core	1
3	300722	Composite C Post T&G Fit	2
2	ACPC755POSTCAP-HORSE	POST CAP, 5 X 5	2
1	300755	5"x5" Composite Hollow Post	2
ITEM NO.	Part NO	DESCRIPTION	QTY.

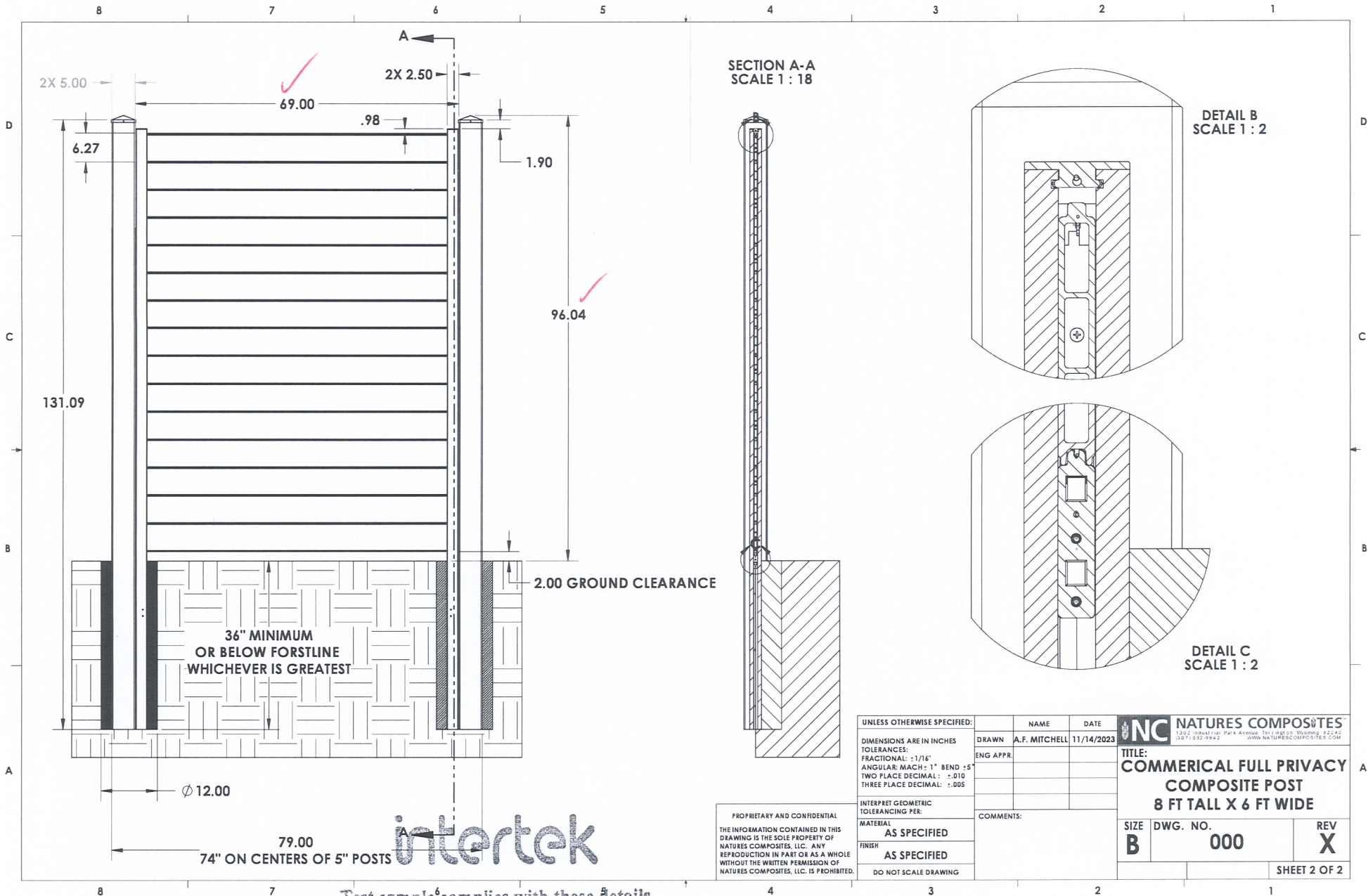
BOM Table

UNLESS OTHERWISE SPECIFIED:	NAME	DATE	 1392 Industrial Park Avenue, Torrington, Wyoming 82240 307.733.9942 www.naturescomposites.com
DIMENSIONS ARE IN INCHES	DRAWN A.F. MITCHELL	11/14/2023	
TOLERANCES:	ENG APPR.		TITLE: COMMERCIAL FULL PRIVACY COMPOSITE POST 8 FT TALL X 6 FT WIDE
FRACTIONAL: ±1/16"			
ANGULAR: MACH ±1° BEND ±5°			
TWO PLACE DECIMAL: ±.010			SIZE: DWG. NO. REV B 000 X
THREE PLACE DECIMAL: ±.005			
INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:		SHEET 1 OF 2
MATERIAL	AS SPECIFIED		
FINISH	AS SPECIFIED		
DO NOT SCALE DRAWING			

Test sample complies with these details.
Deviations are noted.

Report # Q6380.01-119-19

Date 1/19/24 Tech wb



Test sample complies with these details.
Deviations are noted.

Report # Q6380.01-119-19

Date 1/19/24 Tech UG

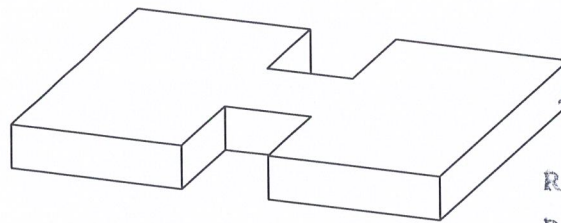
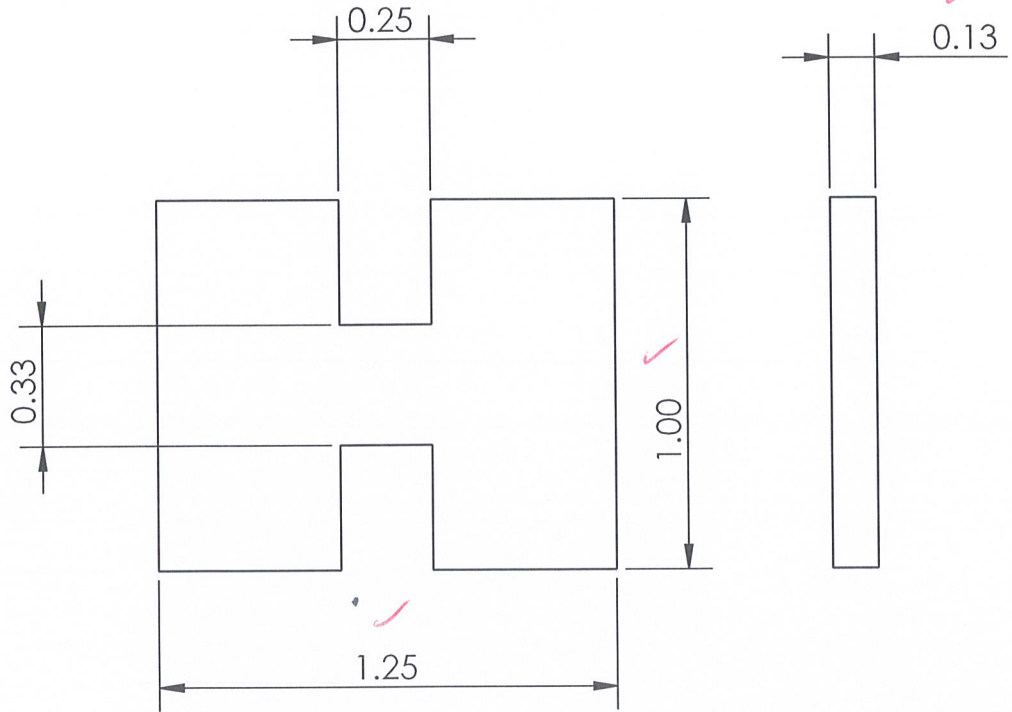


2

1

Notes:

- 1. MATERIAL: STEEL I.A.W. ASTM A109 or A36
- 2. BREAK ALL SHARP EDGES



intertek

Test sample complies with these details.
Deviations are noted.

Report # Q6380.01-119-19

Date 4/19/24 Tech ef

A

A

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NATURES COMPOSITES, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NATURES COMPOSITES, LLC. IS PROHIBITED.

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: $\pm 1/16"$
 ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 5^\circ$
 TWO PLACE DECIMAL $\pm .010"$
 THREE PLACE DECIMAL $\pm .005"$

MATERIAL: AS NOTED
 FINISH: AS NOTED
 DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
ENG APPR.		

COMMENTS:

NC NATURES COMPOSITES
1322 INDUSTRIAL PARK AVENUE, TORRINGTON WY 82040 | 307-333-8942 | WWW.NATURESCOMPOSITES.COM

Top Cable Stop

SIZE **A** DWG. NO. **200030** REV. **A**
 SHEET 1 OF 1

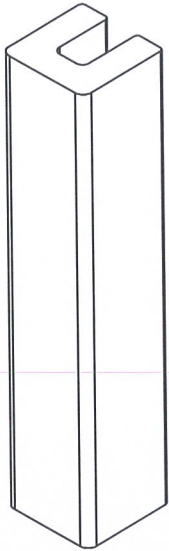
2

1

2

1

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	8/30/2022	JTM
A	INCREASE POST SIZE	2/7/2023	JTM



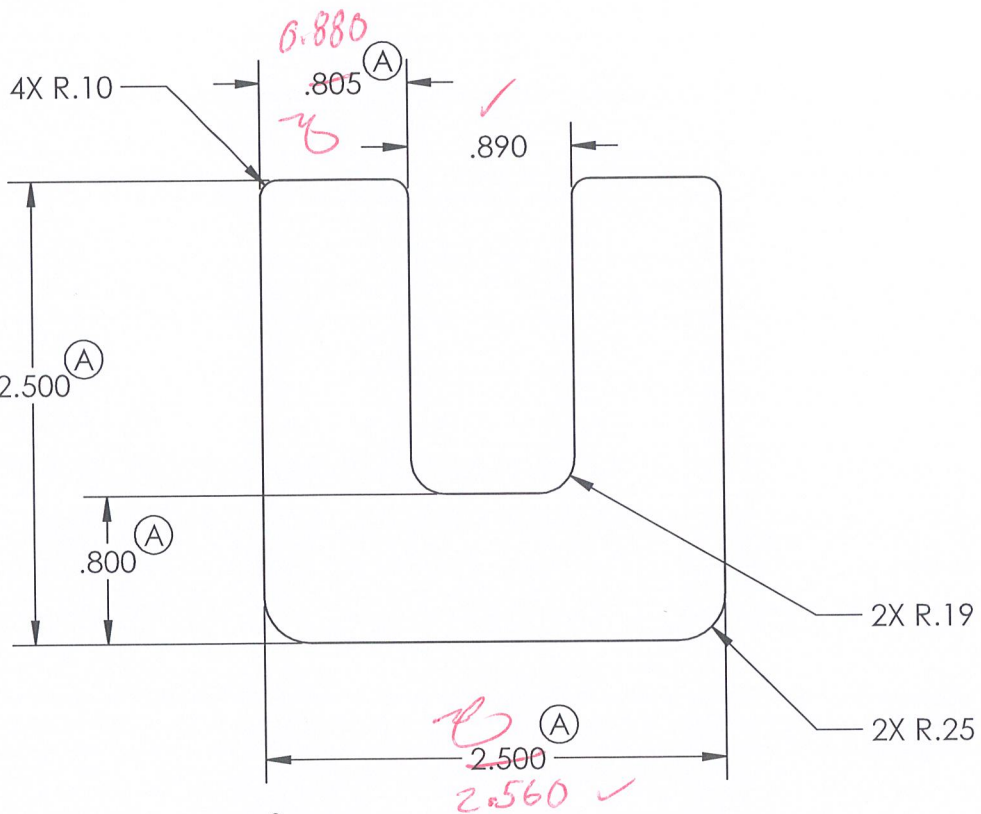
ISOMETRIC VIEW

intertek

Test sample complies with these details.
Deviations are noted.

Report # Q6380.01-119-19

Date 1/19/24 Tech zj



PROPERTIES:

CROSS-SECTIONAL AREA: 4.717 IN²

WEIGHT: 2.26 LBS/FT

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NATURES COMPOSITES, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NATURES COMPOSITES, LLC. IS PROHIBITED.

DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16" ANGULAR: MACH ±1° BEND ±5° TWO PLACE DECIMAL ±.010" THREE PLACE DECIMAL ±.005"	NAME	DATE
	DRAWN J.T. MITCHELL	08/22/2022
	ENG APPR. J.T. MITCHELL	08/22/2022
	COMMENTS:	
MATERIAL		
WOOD COMPOSITE		
FINISH		
DO NOT SCALE DRAWING		

	1322 Industrial Park Avenue, Torrington, Wyoming 82240 (307) 532-2942 www.naturescomposites.com	
	<h2>CHANNEL</h2>	
SIZE A	DWG. NO. 300722	REV. A
		SHEET 1 OF 1

2

1

2

1

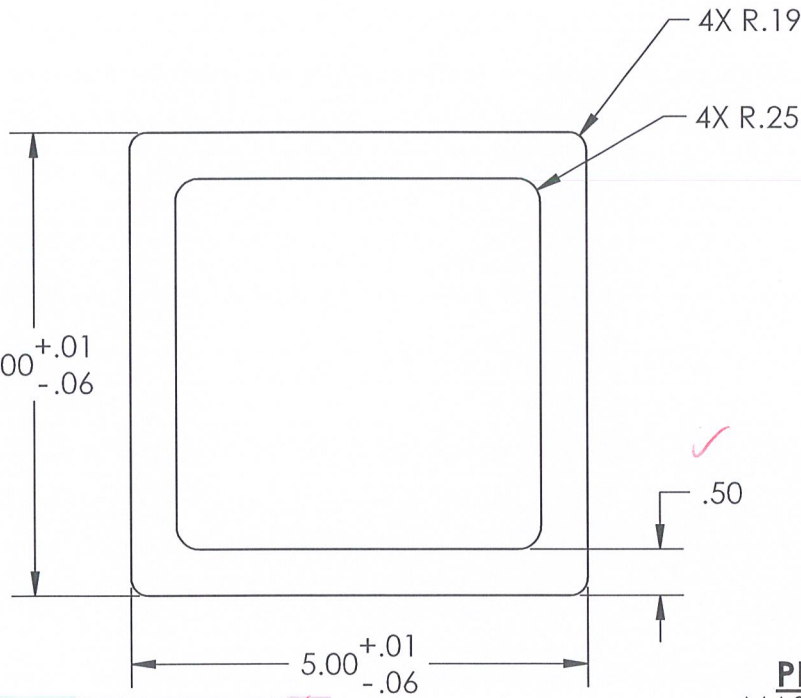
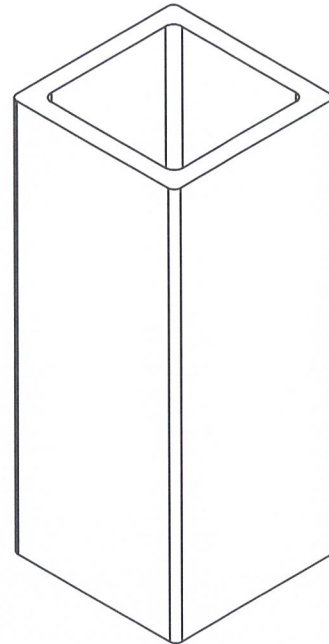
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	03/24/2015	JTM

intertek

Test sample complies with these details.
Deviations are noted.

Report # 06380.01-119-19

Date 1/19/24 Tech WJ



PHYSICAL PROPERTIES
 MASS = 4.33 LBS/LINEAR FOOT
 CROSS SECTIONAL AREA = 9.02 IN²

B

B

A

A

DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16" ANGULAR: MACH ±1° BEND ±5° TWO PLACE DECIMAL ±.010" THREE PLACE DECIMAL ±.005"	NAME	DATE	NATURES COMPOSITES™ <small>1302 Industrial Park Avenue, Torrington, Wyoming 82240 (307) 562-6942 www.naturescomposites.com</small>
	DRAWN	J.T. MITCHELL 03/24/2015	
	ENG APPR.	J.T. MITCHELL 03/24/2015	
MATERIAL	COMMENTS:		TERRA POST 5" X 5" WITH .5" WALL
SEE PRODUCT FORMULATION SHEET			
FINISH			
NON EMBOSSED	SIZE	DWG. NO.	REV.
DO NOT SCALE DRAWING	A	300755	-
			SHEET 1 OF 1

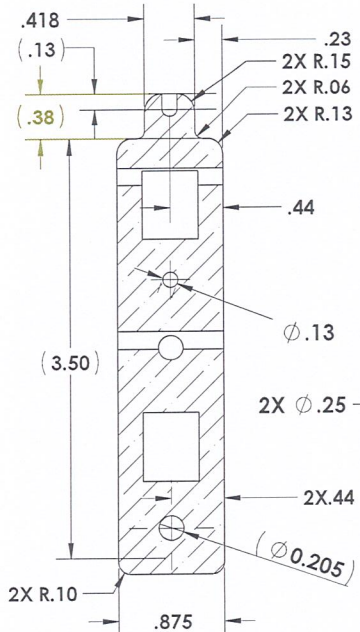
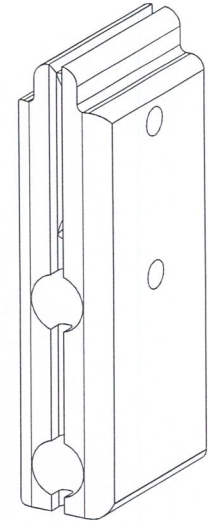
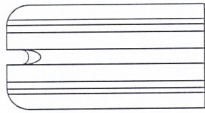
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NATURES COMPOSITES, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NATURES COMPOSITES, LLC. IS PROHIBITED.

2

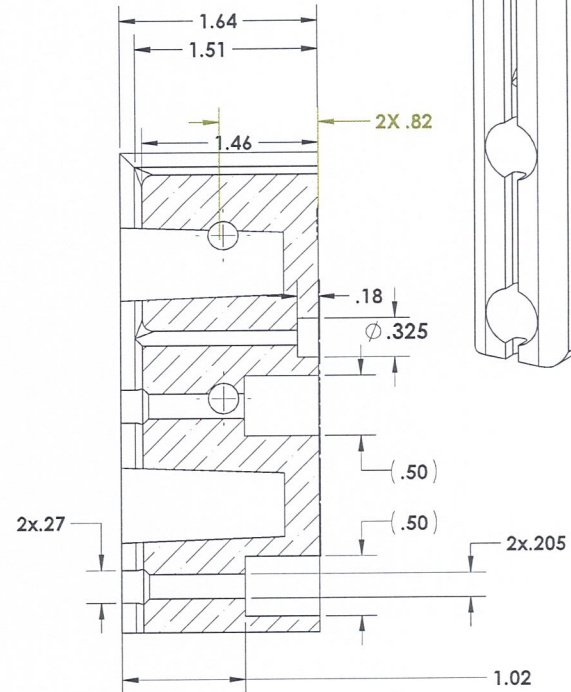
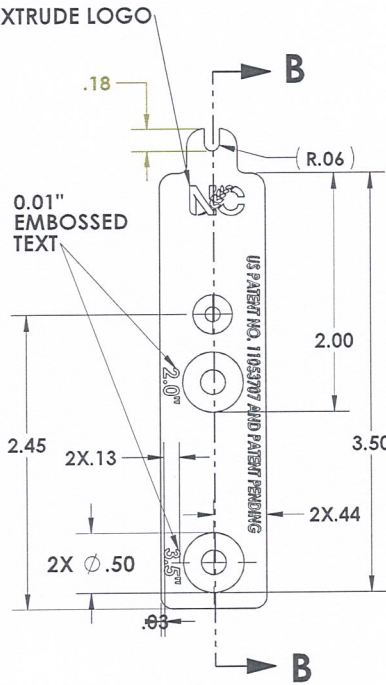
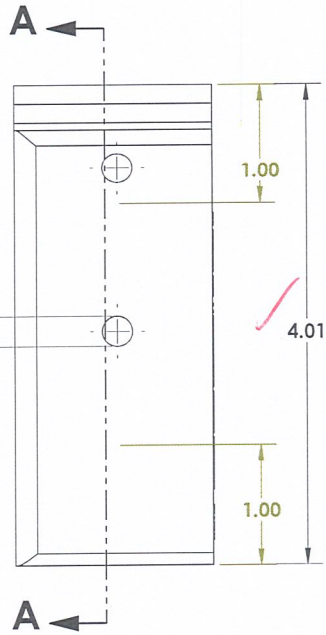
1

Test sample complies with these details.
Deviations are noted.

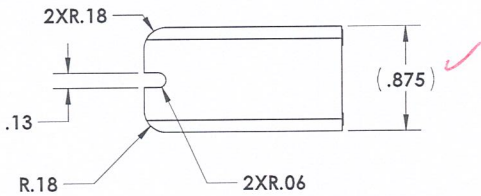
Report # 26380.01-119-19
Date 1/19/24 Tech zy



SECTION A-A



SECTION B-B



UNLESS OTHERWISE SPECIFIED:		NAME	DATE	NATURES COMPOSITES <small>1332 INDUSTRIAL PARK AVENUE, TOWNINGTON NY 12161 (518) 453-8947</small>	
DIMENSIONS ARE IN INCHES		DRAWN	A. MITCHELL		05/15/2023
TOLERANCES:		ENG APPR.	A. MITCHELL	05/15/2023	TITLE:
FRACTIONAL: ±1/16"					SUPPORT BLOCK CABLE ADAPTIVE
ANGULAR: MACH ± 1° BEND ± 5°					
TWO PLACE DECIMAL: ±.010					
THREE PLACE DECIMAL: ±.005					SIZE
INTERPRET GEOMETRIC TOLERANCING PER:		COMMENTS:			DWG. NO.
MATERIAL					B
BLACK ABS					200720
FINISH					REV
DO NOT SCALE DRAWING					D
					SHEET 1 OF 1

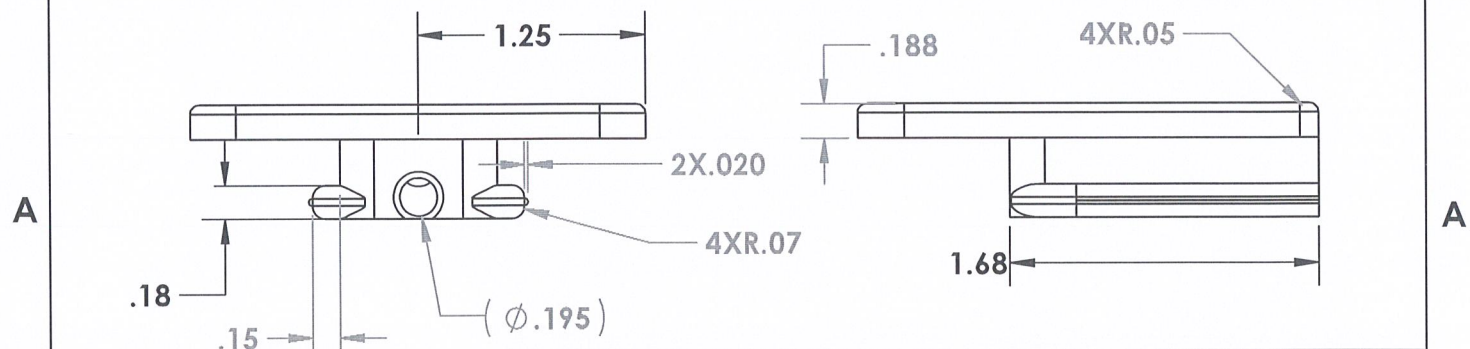
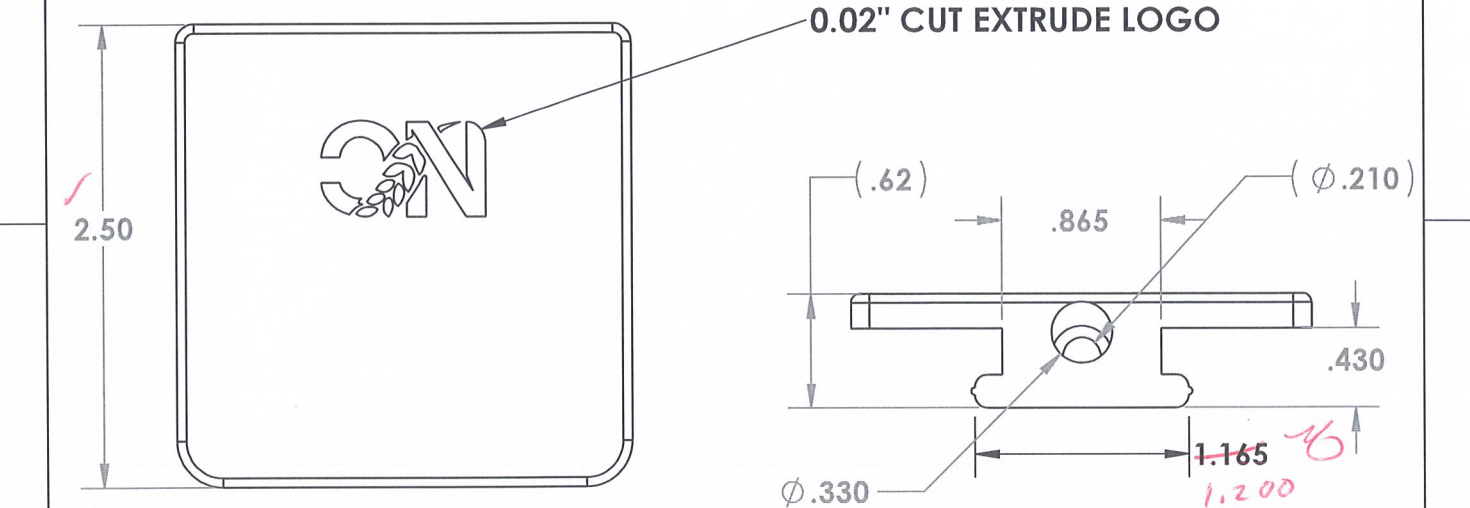
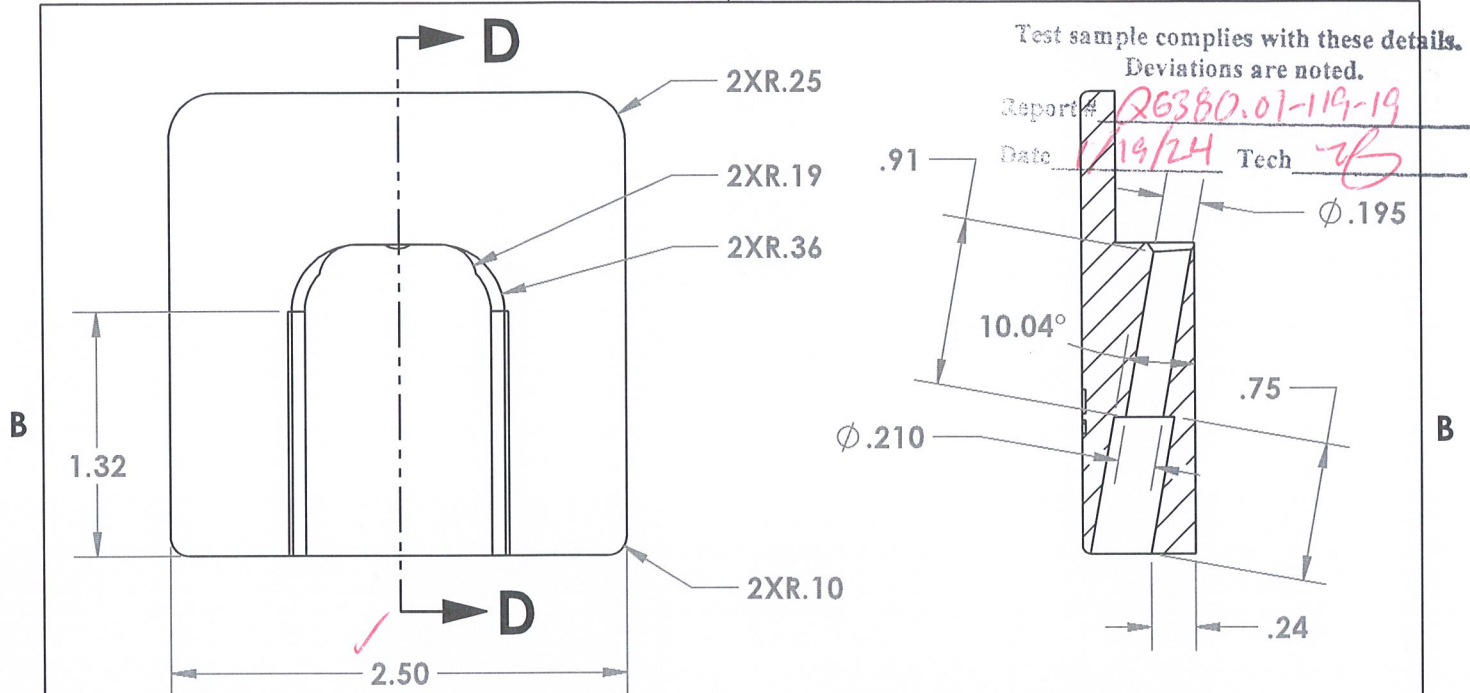
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NATURES COMPOSITES, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NATURES COMPOSITES, LLC, IS PROHIBITED.


Test sample complies with these details.

Deviations are noted.

Report# *26380.01-119-19*

Date *1/19/24* Tech *[Signature]*



DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16"$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 5^\circ$ TWO PLACE DECIMAL $\pm .010"$ THREE PLACE DECIMAL $\pm .005"$	NAME	DATE	 NATURES COMPOSITES <small>1302 INDUSTRIAL PARK AVENUE, TORRINGTON, WY 82240 307-532-9942</small>	
	DRAWN	AFM		5/15/2023
	ENG APPR.	AFM		
	COMMENTS:			
MATERIAL	BLACK ABS		TOP CAP HOLLOW T&G SYSTEM	
FINISH	MATTE			
DO NOT SCALE DRAWING				
SIZE	DWG. NO.	REV.		
A	200721	C		
			SHEET 1 OF 1	

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NATURES COMPOSITES, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NATURES COMPOSITES, LLC. IS PROHIBITED.



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

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

TEST REPORT FOR NATURES COMPOSITES

Report No.: Q6380.01-119-19 R1

Date: 01/22/24

SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	01/22/24	N/A	Original Report Issue
1	01/26/24	12	Replaced Photo No. 4