

NEWTECHWOOD CORPORATION

TEST REPORT

SCOPE OF WORK

Vertical Fencing (Inground Installation)

REPORT NUMBER

250415005SHF-001

TEST DATE(S)

2025-04-17

ORIGINAL ISSUE DATE

2025-04-24

PAGES

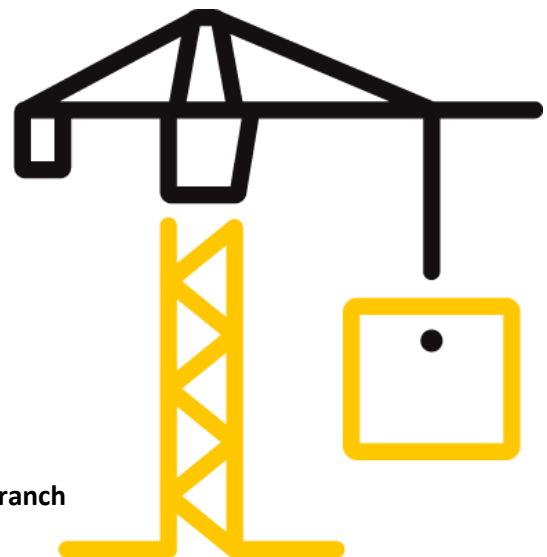
10

DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10k(January 13, 2025)

© 2025 INTERTEK

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

Statement

- 1.This report is invalid without company's special seal for testing on the assigned page.
- 2.This report is invalid without an authorized person's signature.
- 3.This report is invalid if altered.
- 4.Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Don't copy this report in partial without any official approval in written by our company. This report is invalid without re-stamping the special seal for testing in copying report.
- 5.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. 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.
- 6.Except for the obligation, responsibility and liability (if any) for the appropriateness and professionalism of afore-mentioned testing itself within the scope and amount of the testing fee received, Intertek does not and will not accept any other obligation or liability.
- 7.If the Client has any questions about the test results, Intertek B&C should be informed within the storage period of the samples. The sample storage period ends 5 working days after the official report issue date. Samples of certification program are retained for the period required by the certification rules. The samples storage period shall be calculated according to the issue date of the original report in the case of quoting results and modifying reports.
- 8.Intertek B&C will service this report for the entire test record retention period. The test record retention period ends 6 years after this report original issue date. The test record retention period for certification program is 10 years. Test records and other pertinent project documentation will be retained for the entire test record retention period.
- 9.The report was digital signed by Shang Hai, Intertek Group plc, please using Adobe Acrobat Reader to verify the authenticity.

Test Report

Original Issue Date: 2025-04-24

Intertek Report No. 250415005SHF-001

Applicant: NewTechWood Corporation
Address: 15912 International Plaza Dr.Houston, TX 77032
Attn: Cliff Lam
Manufacturer: NewTechWood Corporation
Address: Wutang Section, 12 Tuo, Daling, Huizhou, Guangdong, China
Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
Vertical Fencing (Inground Installation)	FN18-06601	L1880 x W80 x H1900 (mm)
Sample ID	Sample Amount	Sample Received Date
S250415005SHF.001	1 Package	2025-04-15
Brand	Sample Description	
NewTechWood	Received sample was in good condition.	

Test Methods And Standards

Test Standard	In House Method
Specification Standard	In House Method
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1. This report does not involve sampling. The report only reflects conformity of the tested items of the samples provided by the testing applicant. Representativeness and authenticity of the submitted samples are responsibilities of the testing applicant.
2. Wind speed for each wind generator was calibrated according to AAMA 501.1-17. Deflections were measured with displacement transducers accurate to 0.01 in.

Report Authorized



 Name: Fred Bao Name: Gio Liu
 Title: Reviewer Title: Project Engineer

Test Report

Original Issue Date: 2025-04-24

Intertek Report No. 250415005SHF-001

Test Items, Method and Results:

1. List of official observers

Fred Bao	Intertek B&C
Gio Liu	Intertek B&C
John Wang	Intertek B&C

2. Test procedure

One specimen was tested. Each fence panel measured approximately 1880 mm long by 80 mm width. See drawings in Appendix A for detailed descriptions of assembly and components.

Wind load testing began at 50 mph for specimens and increased until failure or a maximum wind speed of 110 mph.

Wind loads were performed with a recovery period, following client specified wind loads, to record permanent set measurements.

3. Wind Load Testing Method

As required by the Applicant, the duration of the applied wind load at each wind speed was determined by using the following equation:

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

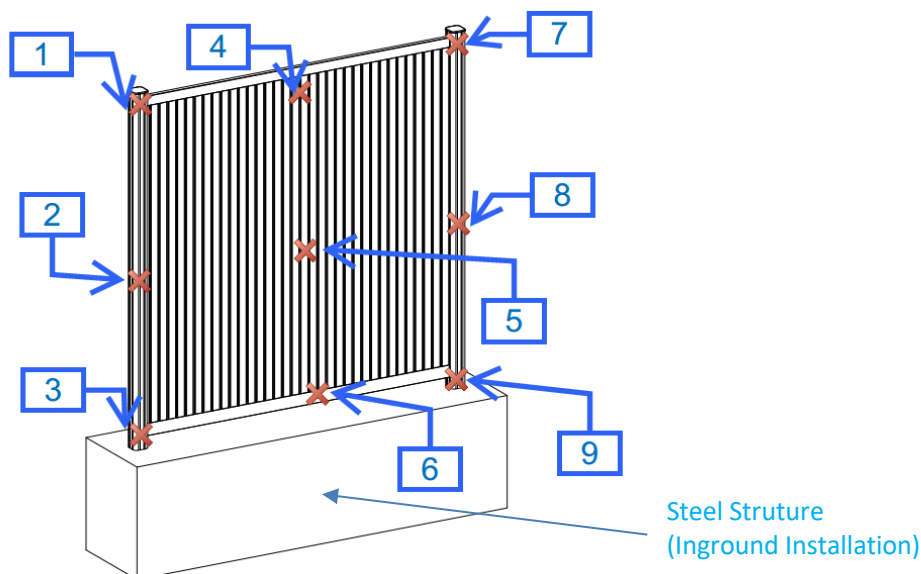
where:

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.

4. The position of transducers



Test Report

Original Issue Date: 2025-04-24

Intertek Report No. 250415005SHF-001

5. Test Results

Wind Speed	Duration	Maximum Deflection (inches)								
		1	2	3	4	5	6	7	8	9
50 mph	72 sec	0.41	0.19	0.01	0.76	0.84	0.28	0.39	0.16	0.01
0 mph	Permanent Set	0.03	0.01	<0.01	0.05	0.01	0.02	0.03	0.01	<0.01
56 mph	65 sec	0.49	0.21	0.01	0.93	1.03	0.36	0.48	0.19	0.01
0 mph	Permanent Set	0.02	0.01	<0.01	0.04	0.02	0.02	0.02	0.01	<0.01
63 mph	57 sec	0.54	0.24	0.01	1.00	1.08	0.37	0.53	0.21	0.02
0 mph	Permanent Set	0.02	0.01	<0.01	0.04	0.01	0.02	0.02	0.01	<0.01
69 mph	52 sec	0.69	0.29	0.01	1.25	1.31	0.45	0.65	0.29	0.02
0 mph	Permanent Set	0.01	<0.01	<0.01	0.03	0.02	0.02	0.01	<0.01	<0.01
77 mph	47 sec	1.04	0.41	0.02	1.91	2.04	0.60	0.98	0.43	0.03
0 mph	Permanent Set	0.02	0.02	<0.01	<0.01	0.04	0.01	0.02	0.01	<0.01
90 mph	40 sec	1.41	0.69	0.04	2.55	2.69	0.99	1.41	0.61	0.04
0 mph	Permanent Set	0.06	0.04	<0.01	0.04	0.07	<0.01	0.06	0.03	<0.01
110 mph	33 sec	Specimen sustained maximum wind load of 110 mph and no damage was observed after test. ¹								
0 mph	Permanent Set									

Note 1: The deflections of the sample exceeded the measurement ranges of the deflection gauges during the testing was conducted at wind speed of 110 mph. Thus, as confirmed by the Applicant, the deflections of the sample at the wind speed of 110 mph and the permanent sets at 0 mph were not requested to record or reported.

Test Report

Original Issue Date: 2025-04-24

Intertek Report No. 250415005SHF-001

Appendix A: Test Photos and Sample Drawings:

A.1 Test Photos



Photo No.1 The specimen before wind load testing



Photo No.2 The specimen under wind load testing

Test Report

Original Issue Date: 2025-04-24

Intertek Report No. 250415005SHF-001



Photo No.3 The specimen after wind load testing

Test Report

Original Issue Date: 2025-04-24

Intertek Report No. 250415005SHF-001

A.2 Sample Drawings

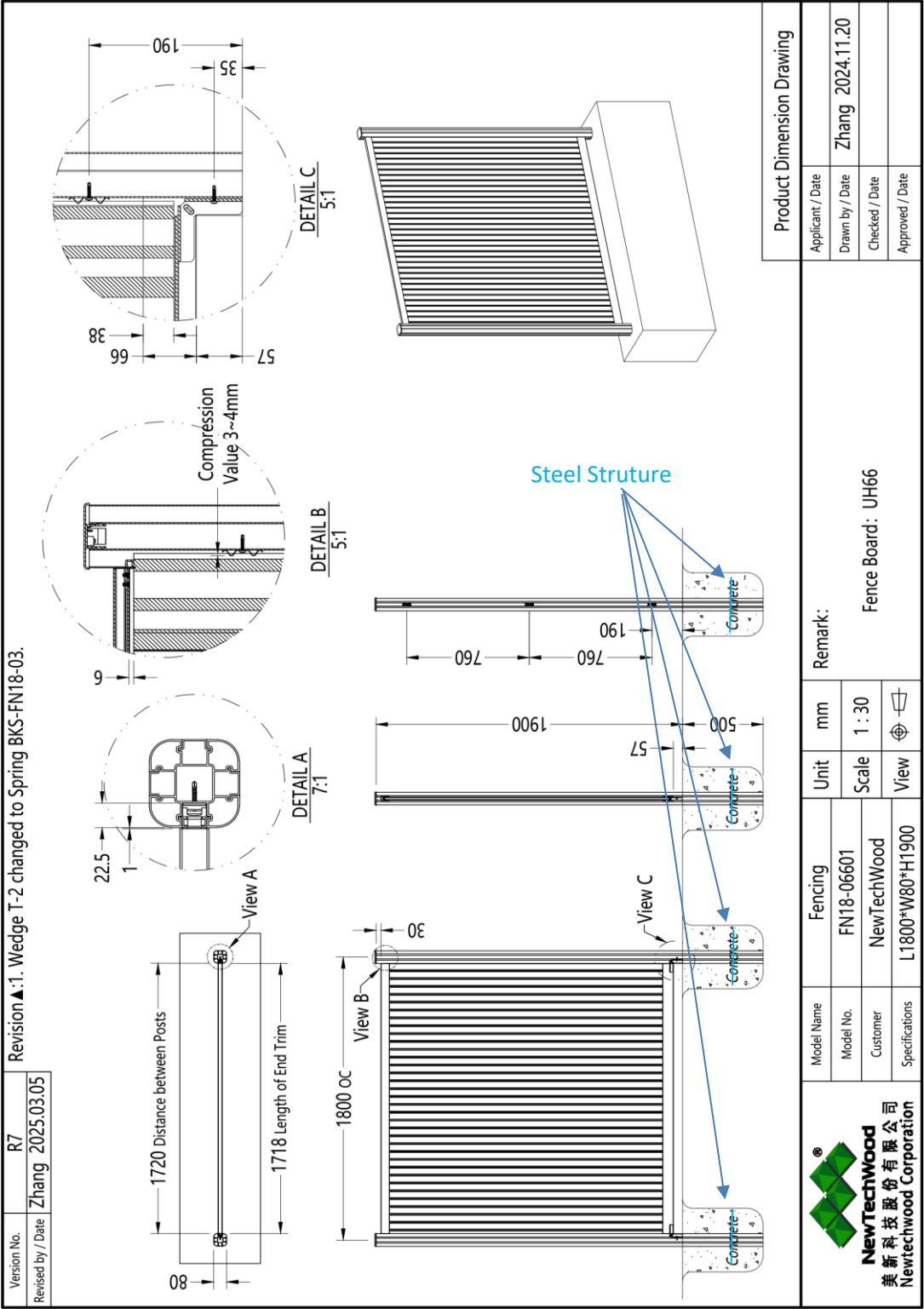


Photo No.4 The drawings of test specimen

Test Report

Original Issue Date: 2025-04-24

Intertek Report No. 250415005SHF-001

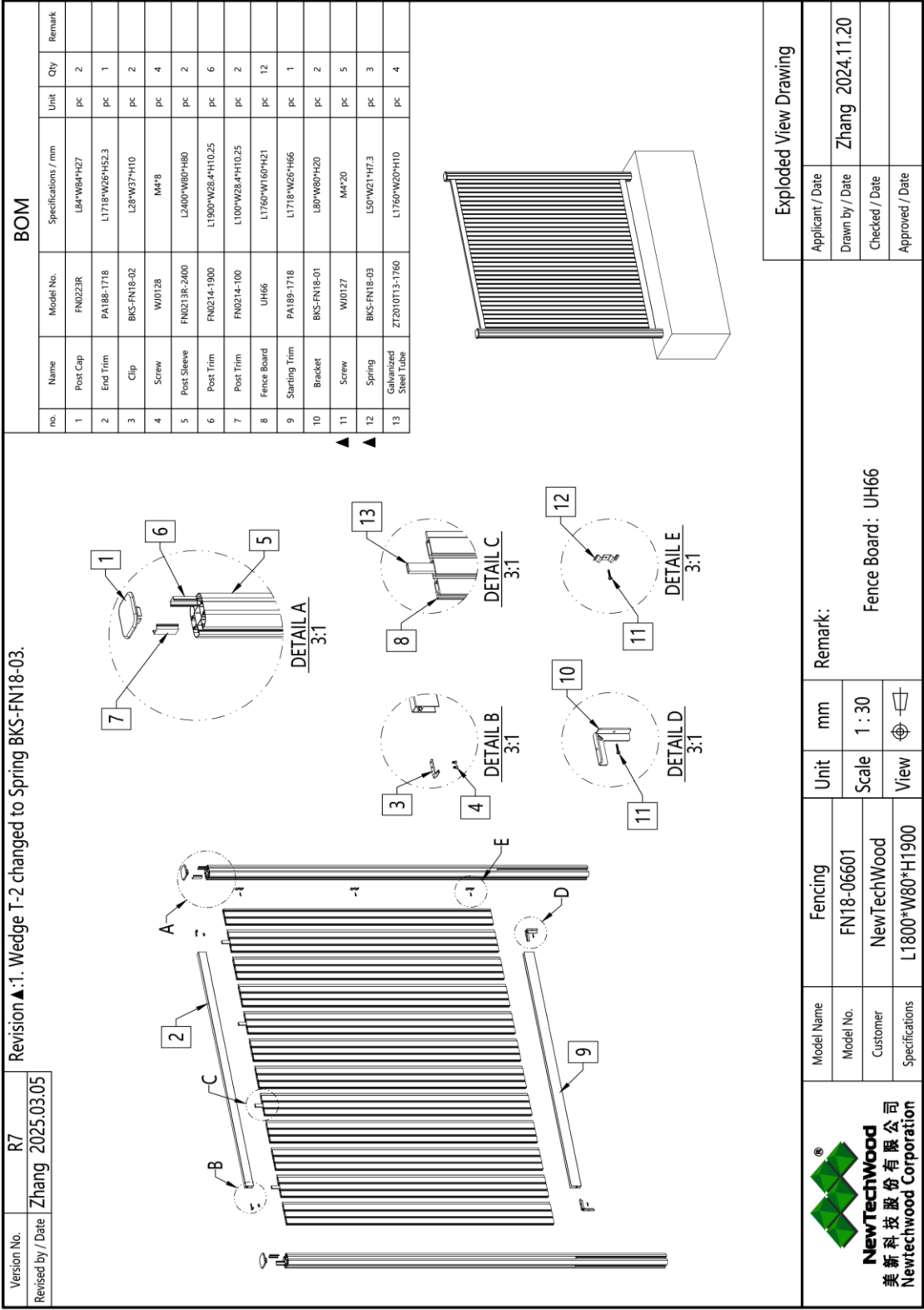


Photo No.5 The installation drawings of test specimen

Test Report

Original Issue Date: 2025-04-24

Intertek Report No. 250415005SHF-001

Appendix B: Sample Received Photo



Revision:

NO.	Date	Changes
250415005SHF-001	2025-04-24	First issue