

NEWTECHWOOD CORPORATION

TEST REPORT

SCOPE OF WORK

Vertical Fencing (Surface Mount)

REPORT NUMBER

250415005SHF-002

TEST DATE(S)

2025-04-17

ORIGINAL ISSUE DATE

2025-04-24

PAGES

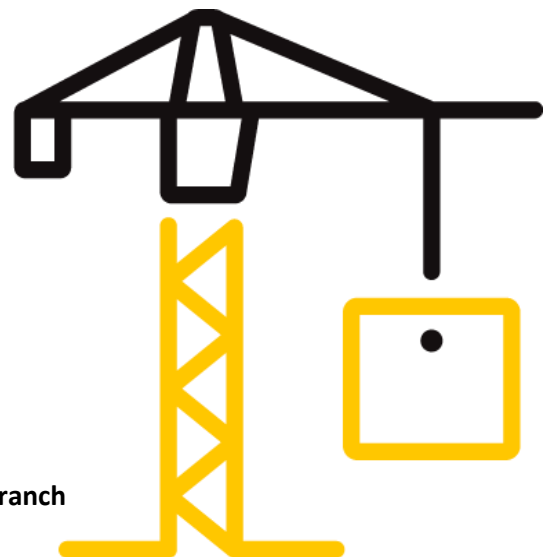
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DOCUMENT CONTROL NUMBER

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

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

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Test Report

Original Issue Date: 2025-04-24

Intertek Report No. 250415005SHF-002

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 (Surface Mount)	FN18-06603	L1880 x W80 x H1900 (mm)
Sample ID	Sample Amount	Sample Received Date
S250415005SHF.002	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

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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 77 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:

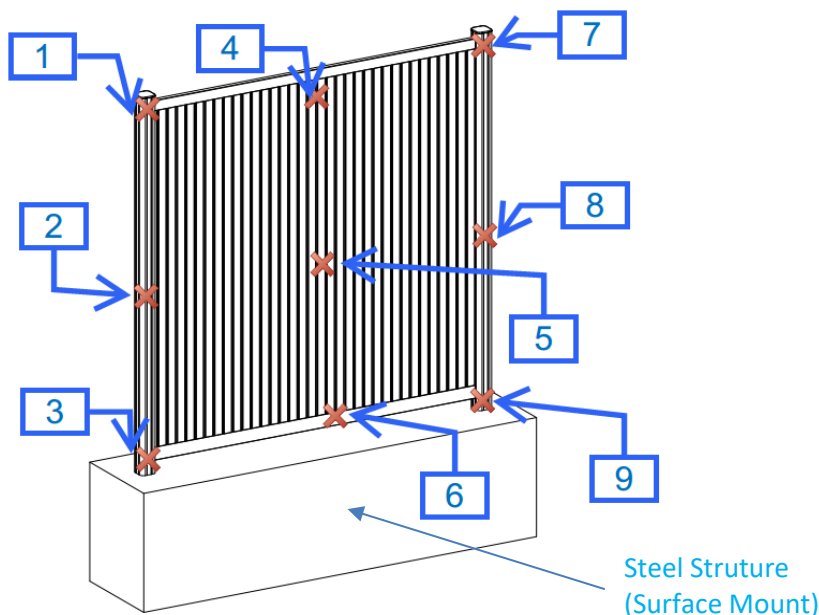
$$t = 3600 / V_{fm} \quad (\text{Equation 1})$$

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



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5. Test Results

Wind Speed	Duration	Maximum Deflection (inches)								
		1	2	3	4	5	6	7	8	9
50 mph	72 sec	0.77	0.34	0.01	1.19	0.97	0.33	0.80	0.33	0.01
0 mph	Permanent Set	0.30	0.15	<0.01	0.34	0.17	0.04	0.33	0.16	<0.01
56 mph	65 sec	0.96	0.42	0.01	1.41	1.15	0.42	0.95	0.40	0.01
0 mph	Permanent Set	0.30	0.15	<0.01	0.35	0.17	0.05	0.33	0.16	<0.01
63 mph	57 sec	1.06	0.48	0.01	1.59	1.30	0.44	1.02	0.41	0.01
0 mph	Permanent Set	0.29	0.14	<0.01	0.34	0.16	0.04	0.33	0.15	<0.01
69 mph	52 sec	1.40	0.61	0.01	2.03	1.66	0.57	1.43	0.56	0.01
0 mph	Permanent Set	0.27	0.13	<0.01	0.32	0.15	0.04	0.31	0.15	<0.01
77 mph	47 sec	1.82	0.79	0.01	2.55	2.05	0.70	1.76	0.72	0.01
0 mph	Permanent Set	0.22	0.11	0.01	0.27	0.13	0.04	0.28	0.13	<0.01

Result: The specimen could resist the maximum wind load at wind speed of 77 mph, and no damage on the specimen was observed after test

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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

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Photo No.3 The specimen after wind load testing

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A.2 Sample Drawings

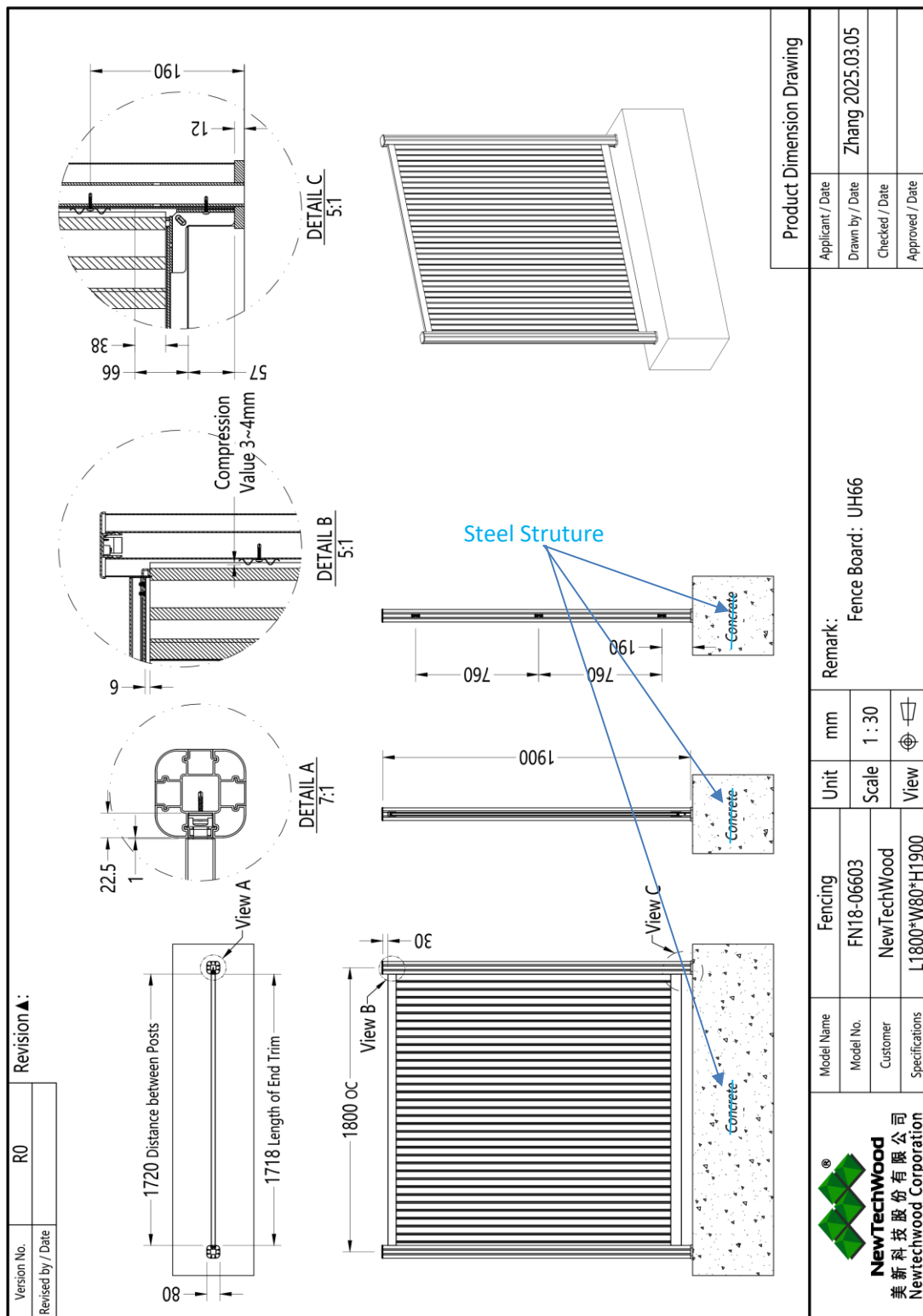


Photo No.4 The drawings of test specimen



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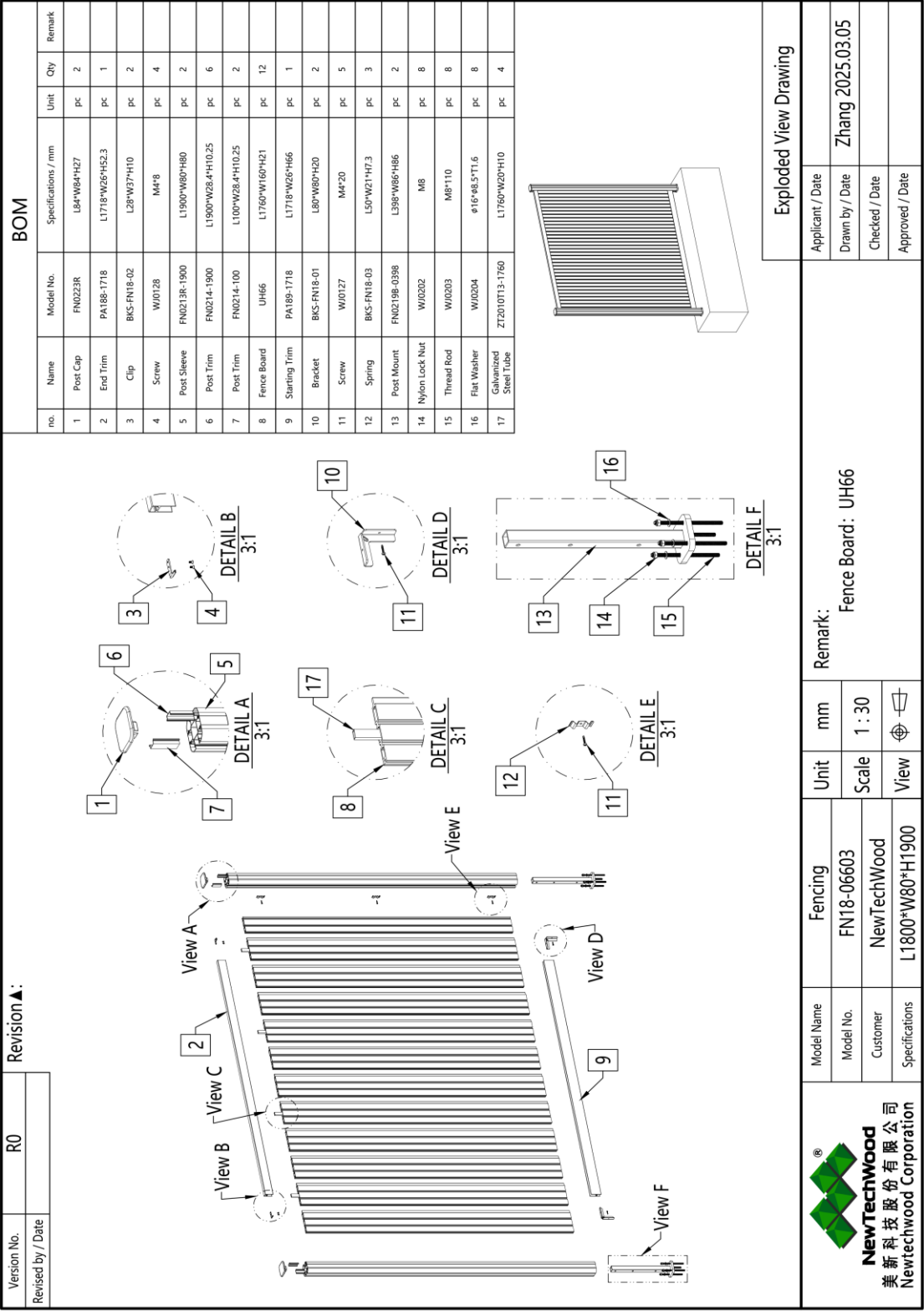


Photo No.5 The installation drawings of test specimen

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Appendix B: Sample Received Photo



Revision:

NO.	Date	Changes
250415005SHF-002	2025-04-24	First issue