SAIGE LONGLIFE DECKING LIMITED

TEST REPORT

SCOPE OF WORK
Saige Subframe System Pressure Test of Saige Class B Fire Resistant Hollow Decking Boards

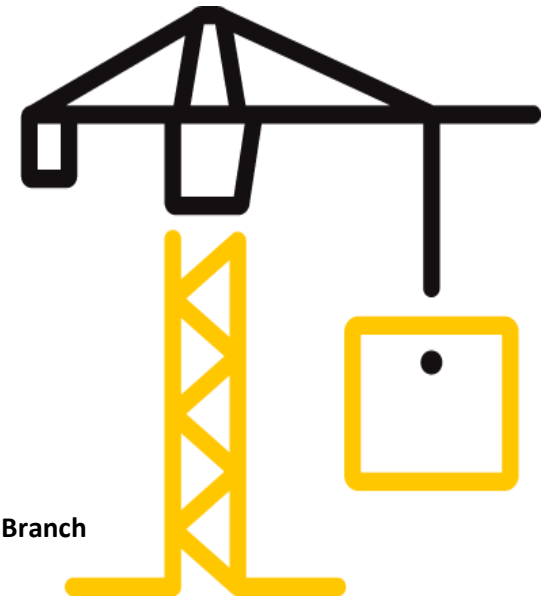
REPORT NUMBER
231219002SHF-001

TEST DATE(S)
2023-12-19 ~ 2023-12-28

ISSUE DATE
2024-01-19

PAGES
10

DOCUMENT CONTROL NUMBER
LFT-APAC-SHF-OP-10k(September 1, 2022)
© 2022 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 professionality 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 offical 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.

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch
Plant 5, No. 6958 Daye Road, Fengxian District, Shanghai, China
Tel: +86 21-61136116 Fax: 021-61189921
Website: www.intertek.com

Test Report

Issue Date: 2024-01-19 Intertek Report No. 231219002SHF-001

Applicant: SAIGE LONGLIFE DECKING LIMITED

Address: VICARAGE BARNS LOWER QUINTON STRATFORD UPON AVON WARWICKSHIRE CV378SG ENGLAND

Attn: York

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Saige Subframe System Pressure Test of Saige Class B Fire Resistant Hollow Decking Boards	**Brand**	/
Sample Description	Good Condition	**Sample Amount**	30 sets
		Received Date	2023-12-12 & 2023-12-13

Sample ID	Model	Specification
S231219002SHF.001	143*23	350mm,400mm, 450mm,500mm, 550mm,600mm

Test Methods And Standards

Test Standard	In house method
Specification Standard	/
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.

Report Authorized

Name: Daniel Zhang Name: Will Tan

Title: Reviewer Title: Project Engineer

Test Report

Issue Date: 2024-01-19 Intertek Report No. 231219002SHF-001

Test Items, Method and Results:

Test Item: Load Test

Test Method: In house method (Provided by applicant)

Test Procedure:

1. Mount the decking boards on beams by fastners, the distance between the beams' center is 350mm.
2. Rotate the pedestals, until the height is 185mm;
3. Install the decking boards and beams on the pedestals;
4. Adjust to the specified span, put a steel plate with 100mm diameter on the center, a pre-load of 100N was applied and deflection shall be set at zero. After pre-load, load was applied at 2.5mm/min to 5mm deflection, then record the force.
5. Test two sets of mounted boards with beams, the two sets used the same pedestals.
6. When the span changes, replace the pedestals.

Test Results:

Centres or Spans (mm)	Load at deflection to 5mm using 25mm beams (N)	
	Sample 1	Sample 2
350 (DIM X)	2988	3068
400 (DIM X)	2850	3117
450 (DIM X)	2633	2657
500 (DIM X)	2474	2625
550 (DIM X)	2299	2315
600 (DIM X)	2100	2214

Centres or Spans (mm)	Load at deflection to 5mm using 50mm beams (N)	
	Sample 1	Sample 2
350 (DIM X)	2998	3185
400 (DIM X)	2927	2902
450 (DIM X)	2976	2909
500 (DIM X)	3000	2770
550 (DIM X)	2921	2718
600 (DIM X)	2921	3152

Test Report

Issue Date: 2024-01-19 Intertek Report No. 231219002SHF-001

Test Sets:

Fig.1 Test set with 25mm beams

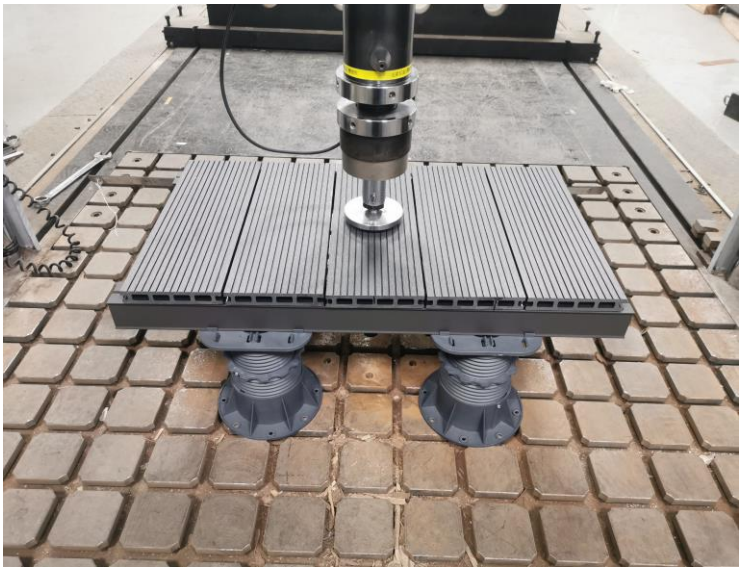


Fig.2 Test set with 50mm beams

Test Report

Issue Date: 2024-01-19 Intertek Report No. 231219002SHF-001

Test Curves (using 25mm beams):

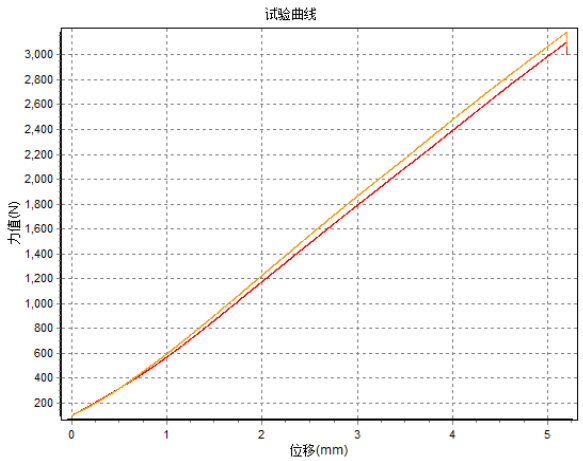


Fig.3 Center 350mm

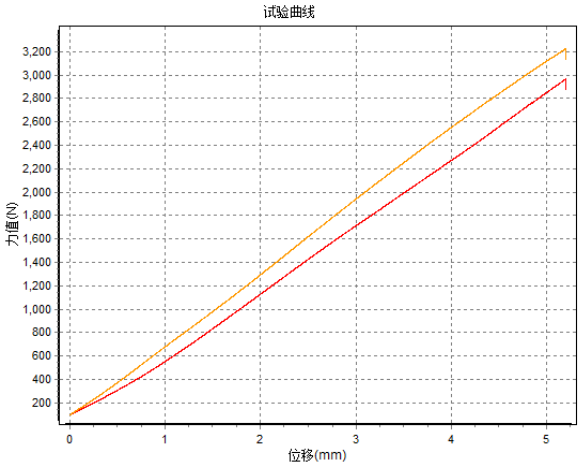


Fig.4 Center 400mm

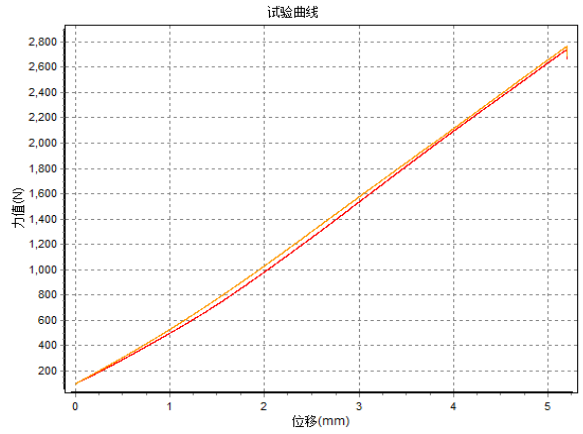


Fig.5 Center 450mm

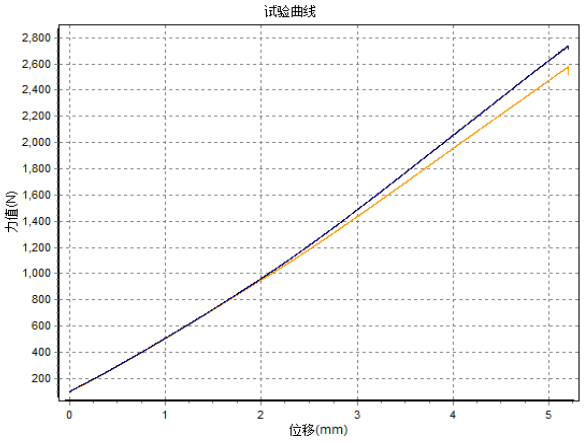


Fig.6 Center 500mm

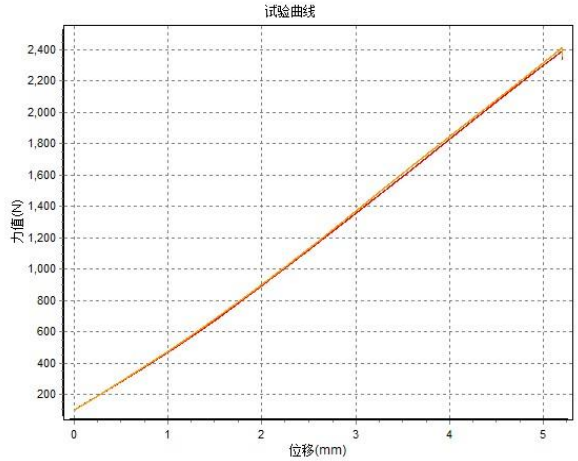


Fig.7 Center 550mm

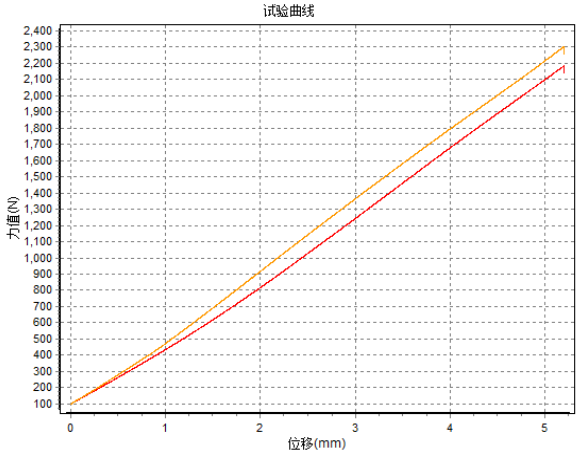


Fig.8 Center 600mm

Test Report

Issue Date: 2024-01-19 Intertek Report No. 231219002SHF-001

Test Curves (using 50mm beams):

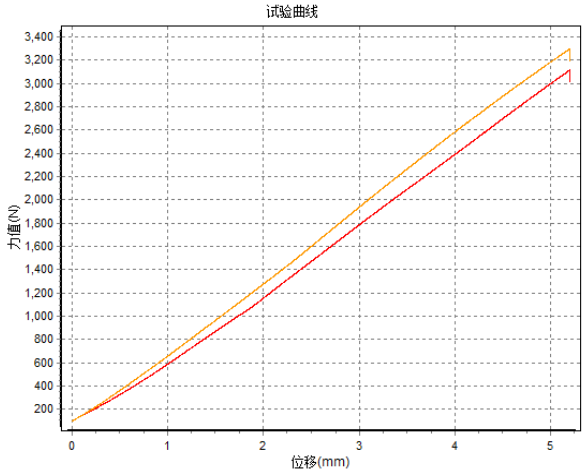


Fig.9 Center 350mm

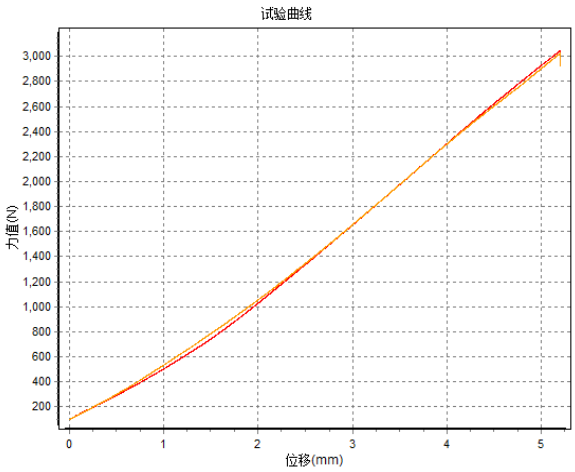


Fig.10 Center 400mm

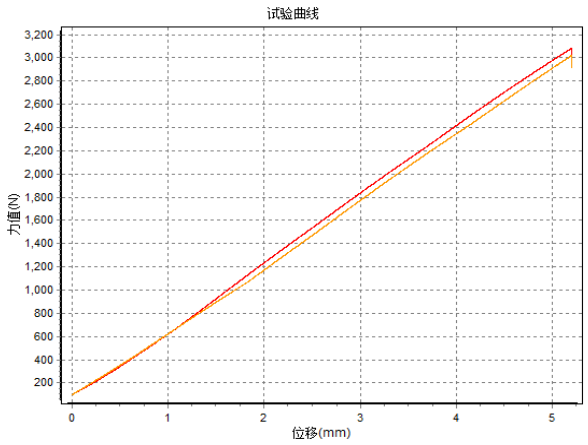


Fig.11 Center 450mm

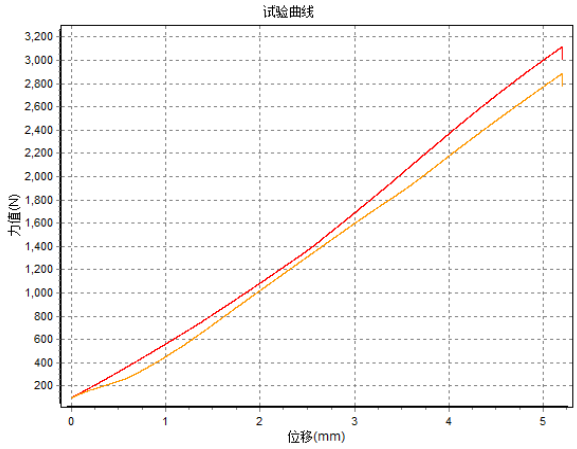


Fig.12 Center 500mm

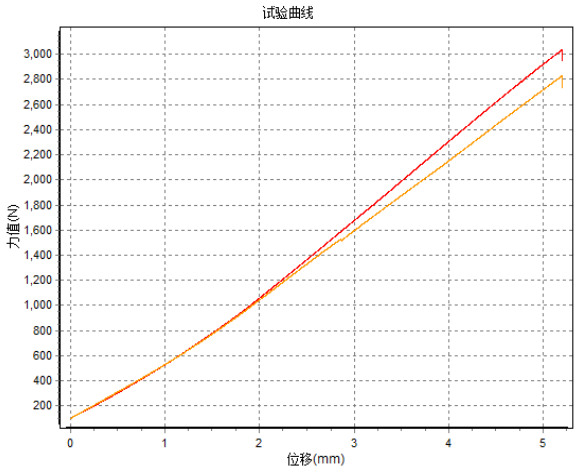


Fig.13 Center 550mm

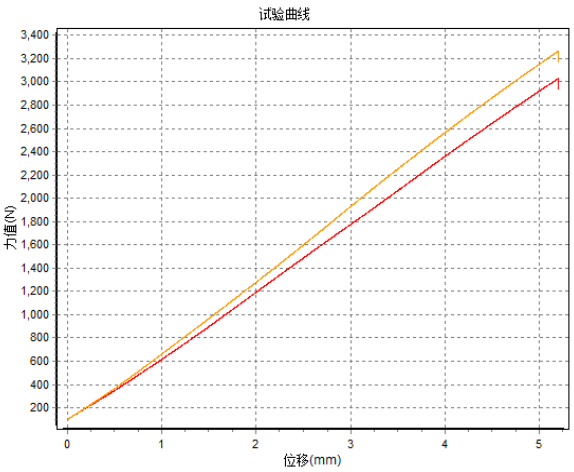
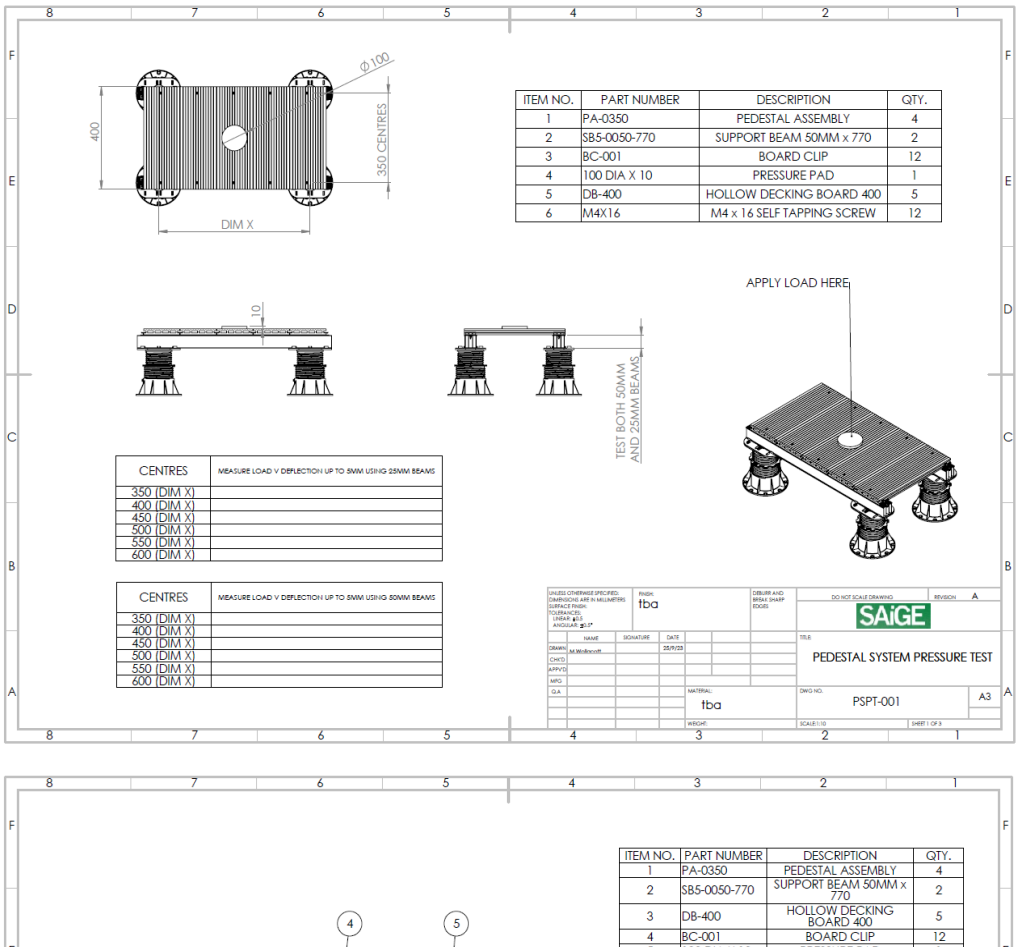


Fig.14 Center 600mm

Test Report

Issue Date: 2024-01-19 Intertek Report No. 231219002SHF-001

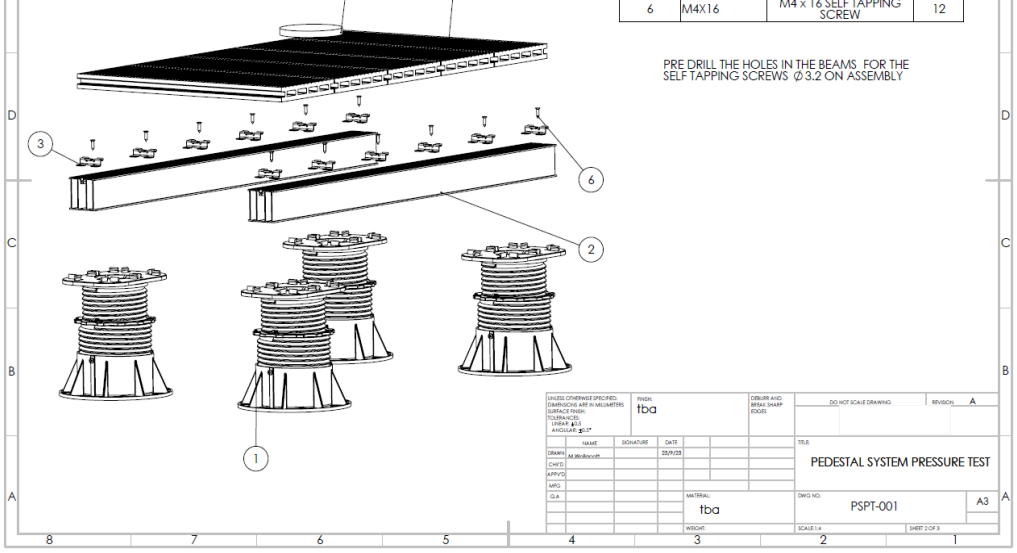
Drawings (Provided by applicant):



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	PA-0350	PEDESTAL ASSEMBLY	4
2	SB5-0050-770	SUPPORT BEAM 50MM x 770	2
3	BC-001	BOARD CLIP	12
4	100 DIA X 10	PRESSURE PAD	1
5	DB-400	HOLLOW DECKING BOARD 400	5
6	M4X16	M4 x 16 SELF TAPPING SCREW	12

CENTRES	MEASURE LOAD V DEFLECTION UP TO 5MM USING 25MM BEAMS
350 (DIM X)	
400 (DIM X)	
450 (DIM X)	
500 (DIM X)	
550 (DIM X)	
600 (DIM X)	

CENTRES	MEASURE LOAD V DEFLECTION UP TO 5MM USING 50MM BEAMS
350 (DIM X)	
400 (DIM X)	
450 (DIM X)	
500 (DIM X)	
550 (DIM X)	
600 (DIM X)	



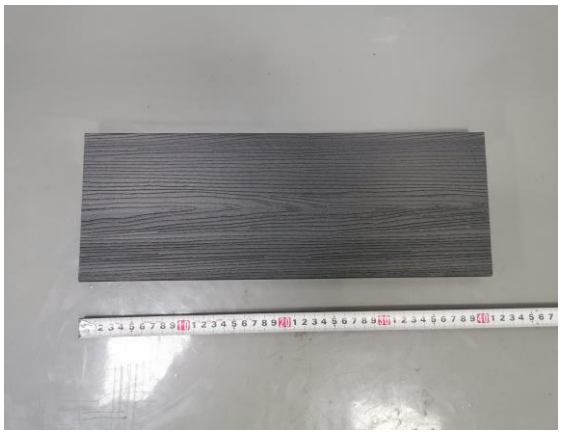
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	PA-0350	PEDESTAL ASSEMBLY	4
2	SB5-0050-770	SUPPORT BEAM 50MM x 770	2
3	DB-400	HOLLOW DECKING BOARD 400	5
4	BC-001	BOARD CLIP	12
5	100 DIA X 10	PRESSURE PAD	1
6	M4X16	M4 x 16 SELF TAPPING SCREW	12

Test Report

Issue Date: 2024-01-19 Intertek Report No. 231219002SHF-001

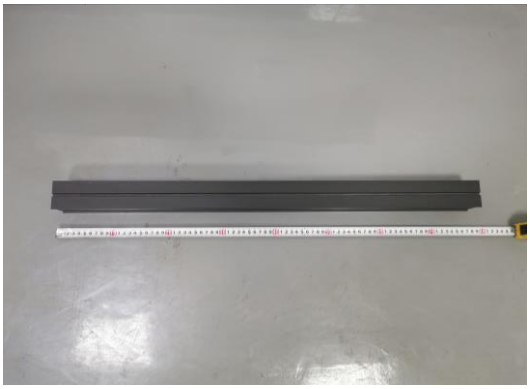
Appendix A: Sample Received Photo

Decking Boards (Test side)

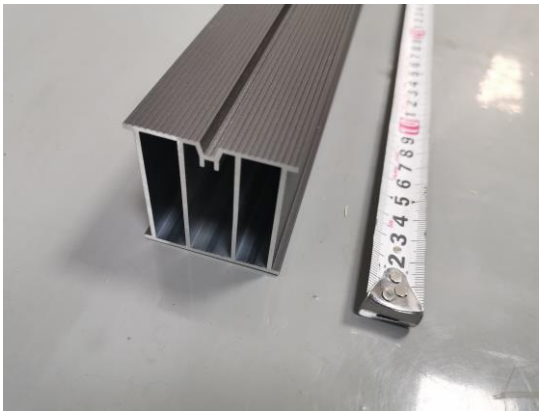


Decking Boards (Back side)

Decking Boards (Section view)



50mm beam



50mm beam (Section view)

25mm beam

Test Report

Issue Date: 2024-01-19 Intertek Report No. 231219002SHF-001

Appendix A: Sample Received Photo (Cont'd)

25mm beam (Section view)

Pedestal

Fastners

Revision:

NO.	Date	Changes
231219002SHF-001	2024-01-19	First issue