

SAIGE LONGLIFE DECKING LIMITED

TEST REPORT

SCOPE OF WORK

Saige Subframe System Pressure Test of Saige Rustic Decking Boards

REPORT NUMBER

231219002SHF-002

TEST DATE(S)

2023-12-19 ~ 2023-12-28

ISSUE DATE

2024-01-19

PAGES

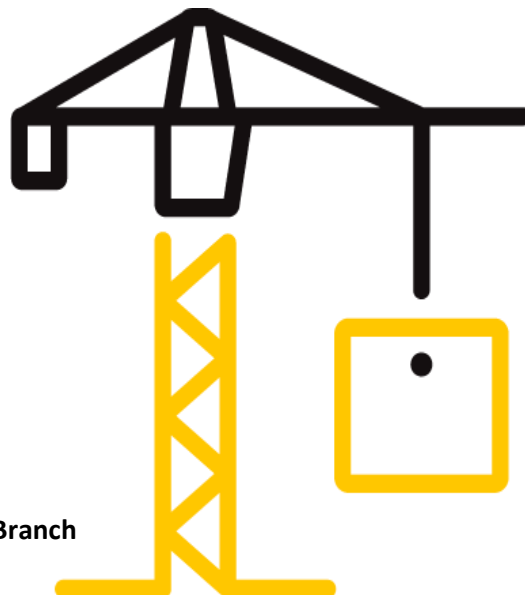
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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10k(September 1, 2022)

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

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Test Report

Issue Date: 2024-01-19 Intertek Report No. 231219002SHF-002
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 Rustic Decking Boards	Brand	/
Sample Description	Good Condition	Sample Amount	30 sets
		Received Date	2023-12-12 & 2023-12-13
Sample ID	Model	Specification	
S231219002SHF.002	140*23	350mm,400mm, 450mm,500mm, 550mm,600mm	



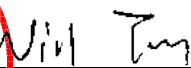
Test Methods And Standards

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 Title: Reviewer

Name: Will Tan Title: Project Engineer

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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 fasteners, 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)	4526	4569
400 (DIM X)	4358	4247
450 (DIM X)	4247	4434
500 (DIM X)	3864	3894
550 (DIM X)	3394	3553
600 (DIM X)	3104	3188

Centres or Spans (mm)	Load at deflection to 5mm using 50mm beams (N)	
	Sample 1	Sample 2
350 (DIM X)	5143	4985
400 (DIM X)	4763	4990
450 (DIM X)	4813	4568
500 (DIM X)	4465	4508
550 (DIM X)	4370	4384
600 (DIM X)	3920	4162

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Test Sets:



Fig.1 Test set with 25mm beams



Fig.2 Test set with 50mm beams

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Test Curves (using 25mm beams):

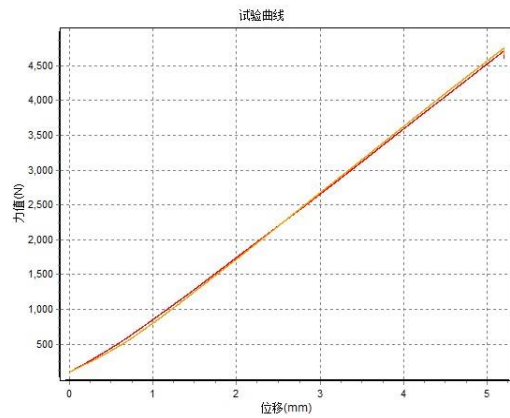


Fig.3 Center 350mm

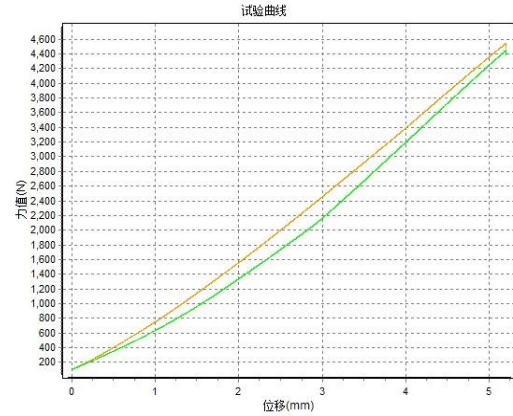


Fig.4 Center 400mm

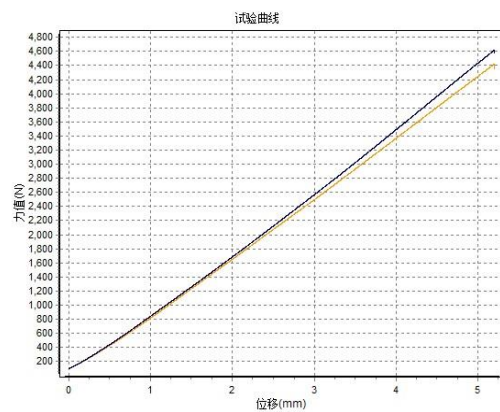


Fig.5 Center 450mm

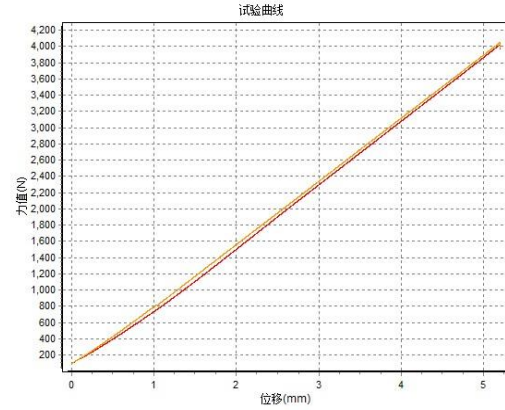


Fig.6 Center 500mm

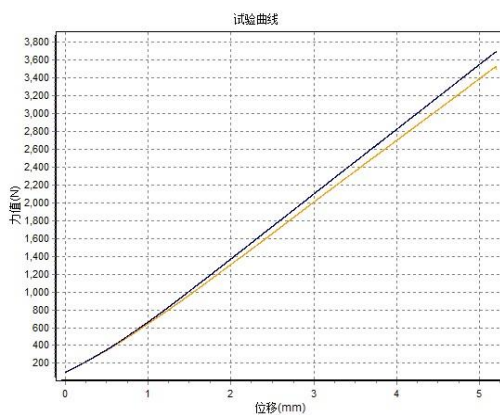


Fig.7 Center 550mm

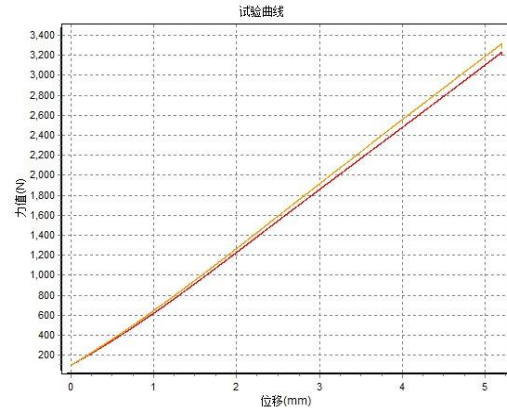


Fig.8 Center 600mm

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Test Curves (using 50mm beams):

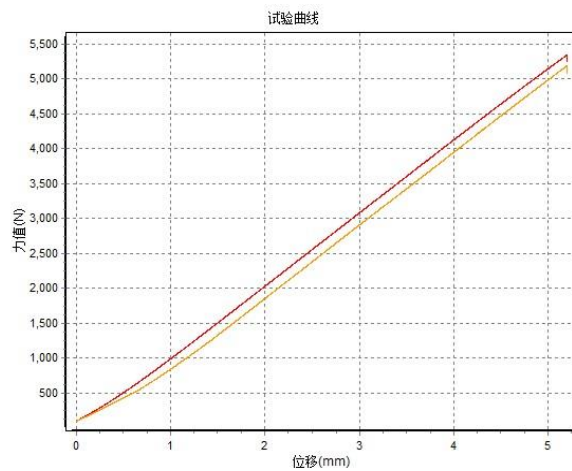


Fig.9 Center 350mm

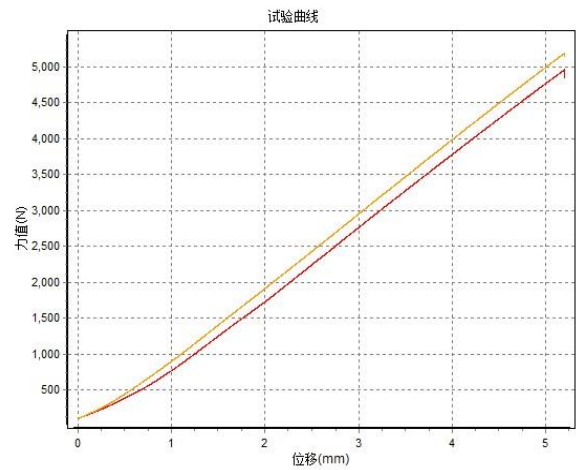


Fig.10 Center 400mm

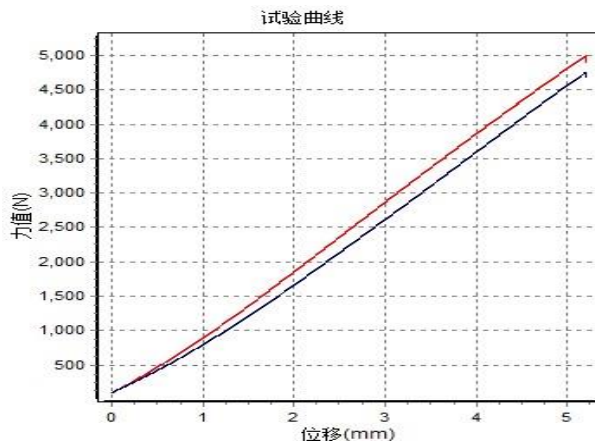


Fig.11 Center 450mm

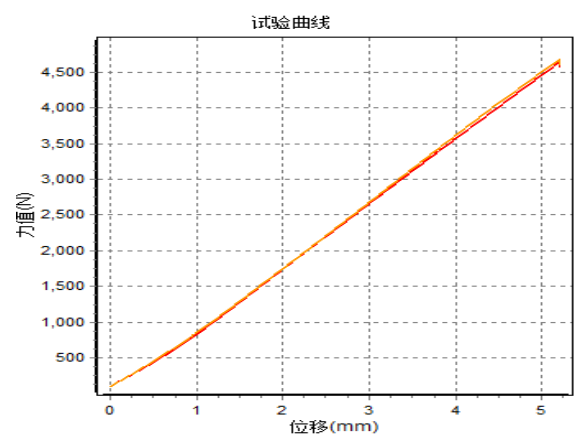


Fig.12 Center 500mm

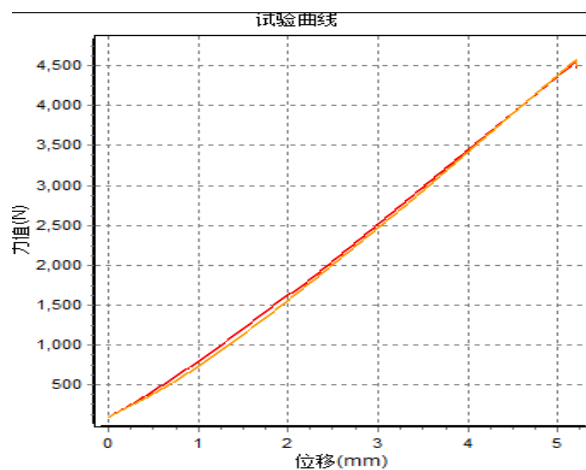


Fig.13 Center 550mm

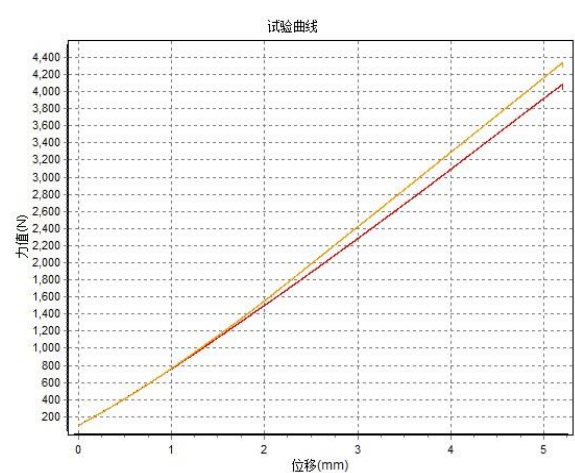
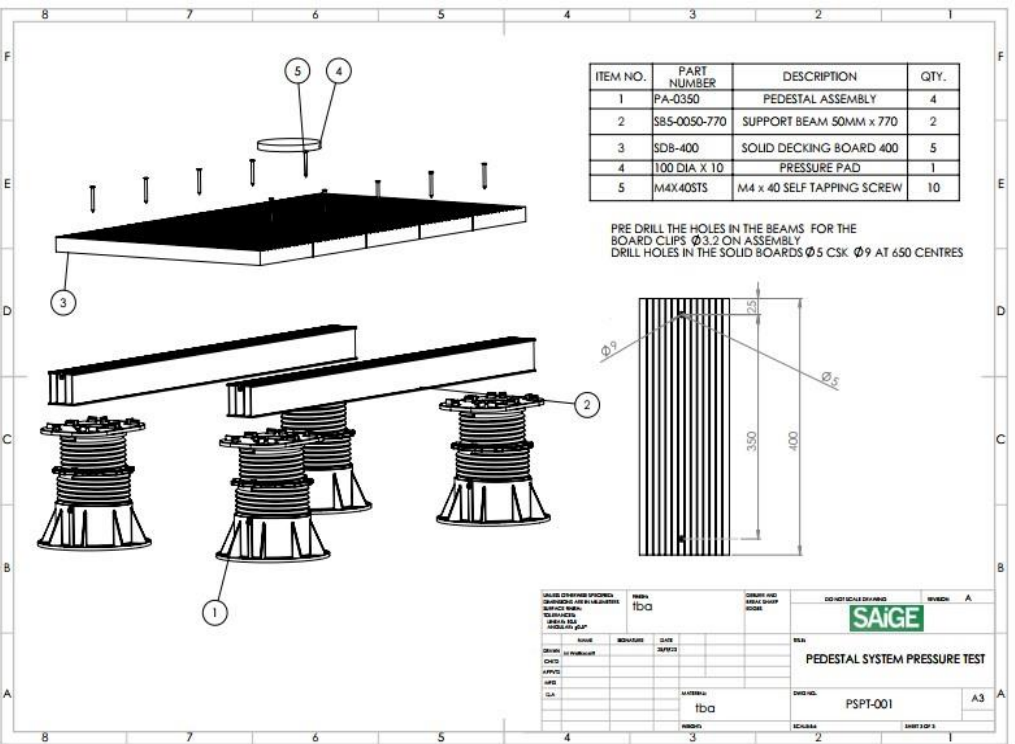
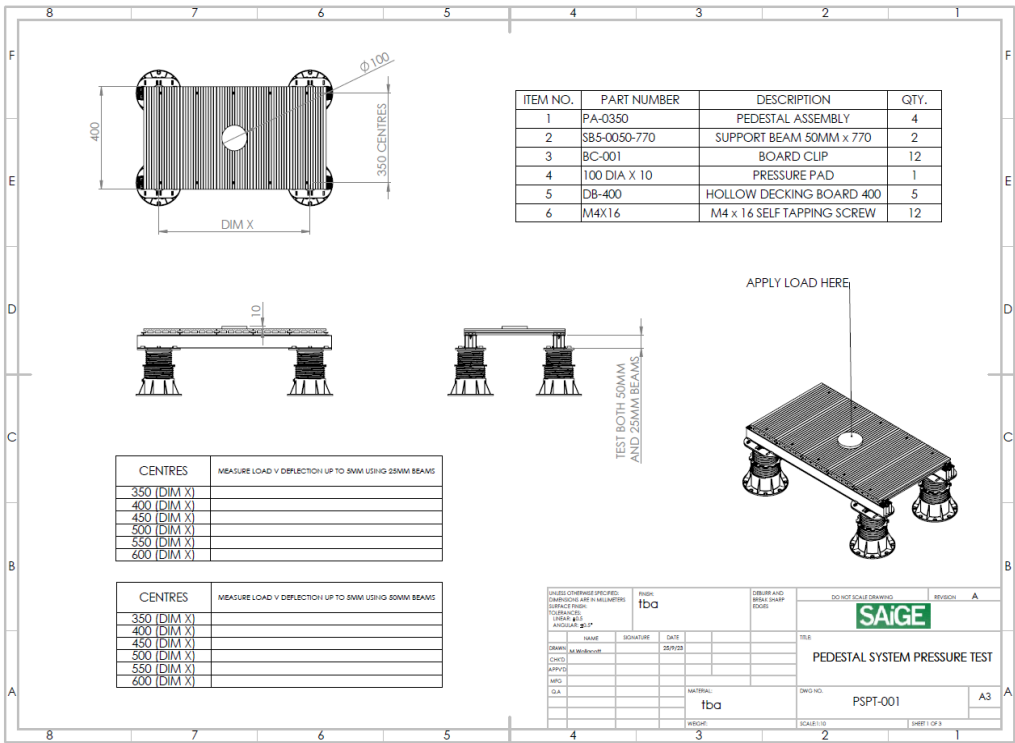


Fig.14 Center 600mm

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Drawings (Provided by applicant):



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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

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Appendix A: Sample Received Photo (Cont'd)



25mm beam (Section view)



Pedestal



Fastner

Revision:

NO.	Date	Changes
231219002SHF-002	2024-01-19	First issue