NEW OZ BUILDING MATERIAL GROUP PTY LTD

TEST REPORT

REPORT NUMBER
171211002SHF-BP-1

ISSUE DATE
2017-12-22

PAGES
9

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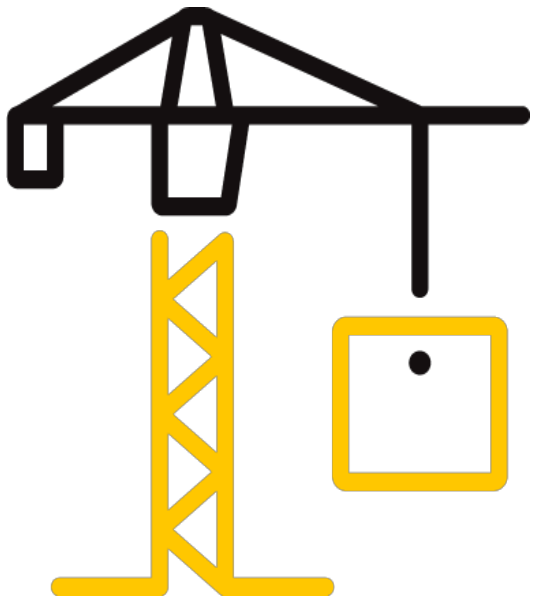

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Test Report

Issue Date: 2017-12-22 Intertek Report No. 171211002SHF-BP-1

Applicant: NEW OZ BUILDING MATERIAL GROUP PTY LTD

Applicant Address: 262 Parramatta Road, Granville NSW 2142

Attn: Andy Chen

SUBJECT: Performance testing
Stone Floor 8mm

Dear Sir,
This test report for represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

TEST METHODS AND STANDARDS
Refer to the next following Pages.

SAMPLE ID	MODEL	SPECIFICATION
S171211002SHF.001~005	Stone Floor 8mm	1210×180×8/0.5mm

SAMPLE RECEIEVED: 2017-12-08, 2017-12-15
TESTED FROM: 2017-12-11 TO 2017-12-22

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Test Items, Method and Results:

Test Item: Water Absorption

Test Method: ASTM D570-98(2010) ^{e1}, Section 7.1

Conditioning: Condition the test specimens at (23±2)°C and (50±5)% relative humidity for at least 24h

Test Condition:

	Temperature (°C)	Duration (h)
Dry in oven:	50	24
Immersion in water:	23	24
Redry in oven:	50	24

Test Result:

Parameter	Specimen 1	Specimen 2	Specimen 3
Water absorption, (%)	0.01	0.01	0.01
Average value, (%)	0.01		

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Test Items, Method and Results:

Test Item: Three-cycle soak test

Test Method: ANSI/HPVA HP-1-2009, Section 4.6

Test Condition:

Step 1	Submerg in water at temperature:	24	°C
	Duration:	4	h
Step 2	Dry in oven at temperature:	52	°C
	Duration:	19	h

Total cycles: 3

Test Result:

Specimen	Delamination	Measure the delamination (mm)			Verdict
		Length	Width	Depth	
1	No	N/A	N/A	N/A	Pass
2	No	N/A	N/A	N/A	
3	No	N/A	N/A	N/A	
4	No	N/A	N/A	N/A	
5	No	N/A	N/A	N/A	
6	No	N/A	N/A	N/A	

Note:

1. N/A = Not applicable
2. If no delamination occurs, result shows N/A

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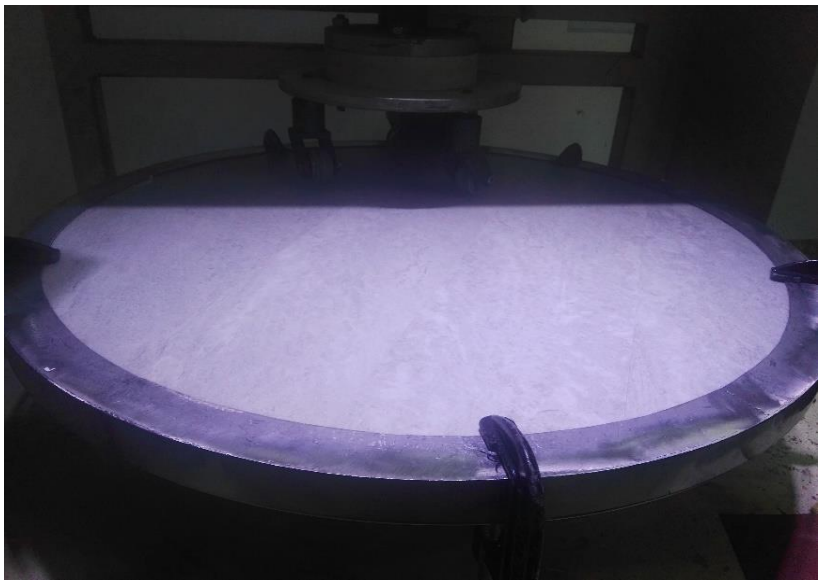
Test Items, Method and Results:

NALFA LF 01-2011: Laminate Flooring Specifications and Test Methods

Test items	Test Methods	Test Results
Castor Chair Resistance	NALFA LF 01-2011 Section 3.9	After 35000 cycles, there was no visible damage.

Performance properties-minimum performance values				
Usage Level	Residential	Light Commercial	Commercial	Heavy Commercial
Property				
Castor Chair Resistance	25000 cycles no effect	25000 cycles no effect	25000 cycles no effect	35000 cycles no effect

Test Photos:



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Test Items, Method and Results:

Test Item: Dimensional stability
Test Method: ASTM F2199-09(2014)
Conditioning:
Temperature: 23 °C
Humidity: 50 %
Duration: 24 h
Measure the initial length
Test Condition:
Temperature: 82 °C
Duration: 6 h
Reconditioning:
Temperature: 23 °C
Humidity: 50 %
Duration: 24 h
Measure the final length

Test Result:

Specimen	Dimensional stability (%)	
	Length direction/Machine direction	Width direction/Across machine direction
1	0.01	0.02
2	0.01	0.02
3	-0.03	0.00
Average	-0.02	0.01
Max.	-0.03	0.02

Note:
1. Dimensional stability = (final length - initial length)×100/initial length
A negative value indicates shrinkage, and a positive value indicates expansion .

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Test Items, Method and Results:

Test Item: Dimensional stability
Test Method: In house method
Conditioning:
Temperature: 23 °C
Humidity: 50 %
Duration: 24 h
Measure the initial length
Test Condition:
Temperature: -35 °C
Duration: 6 h
Reconditioning:
Temperature: 23 °C
Humidity: 50 %
Duration: 24 h
Measure the final length

Test Result:

Specimen	Dimensional stability (%)	
	Length direction/Machine direction	Width direction/Across machine direction
1	0.00	0.01
2	0.00	0.00
3	0.02	0.00
Average	0.01	0.00
Max.	0.02	0.01

Note:
1. Dimensional stability = (final length - initial length)×100/initial length
A negative value indicates shrinkage, and a positive value indicates expansion .

intertek
Total Quality. Assured.

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Test Items, Method and Results:

Test Item: Soluble elements analysis in non-surface coating materials
Test Method: With reference to section 4.3.5.2(2)(b) of the ASTM standard consumer safety specification on toy safety F963-16, acid extraction method was used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Test Result (ppm)	Detection Limit (ppm)	Limit in ASTM F963 (ppm)
Soluble Barium (Ba)	ND	5	1000
Soluble Lead (Pb)	ND	5	90
Soluble Cadmium (Cd)	ND	5	75
Soluble Antimony (Sb)	ND	5	60
Soluble Selenium (Se)	ND	5	500
Soluble Chromium (Cr)	ND	5	60
Soluble Mercury (Hg)	ND	5	60
Soluble Arsenic (As)	ND	2.5	25

Note:
ppm = parts per million = mg/kg
ND = Not detected (less than the detection limit)

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APPENDIX: SAMPLE RECEIVED PHOTO

REPORT AUTHORIZED

When signed with physical or electronic signature, the contents of this report have been prepared and approved per Intertek's quality process in accordance with ISO 17025.

Name: Sun Sun	Name: Mason Wang	Name: Tod Qian
Title: Approver	Title: Reviewer	Title: Project Engineer

Revision:

NO.	DATE	CHANGES	AUTHOR	REVIEWER
171211002SHF-BP-1	2017-12-22	First issue	Tod Qian	Mason Wang