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TEST REPORT

REPORT NUMBER

180611002SHF-BP-2

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2018-07-05

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Test Report

Intertek Report No. 180611002SHF-BP-2

Applicant: LEADVISION INTERNATIONAL LTD

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Attn: Grace

Applicant: LEADVISION INTERNATIONAL LTD

Applicant Address: 80, chemin Richelieu, Saint-Mathias, Qc, Canada J3L 0L5

Attn: Marc D'Amico

SUBJECT: Performance testing

WPC CLADDING

Dear Sir.

This test report 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
S180611002SHF.001~008	YZS14814A-G	3660*148*14mm

SAMPLE RECEIEVED: 2018-06-04

TESTED FROM: 2018-06-11 TO 2018-07-05

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LFT-APAC-SHF-OP-10a Version: 8-April-2018



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Test Items, Method and Results:

Test Item: Flexural properties

Sample Condition: 40 hours at a temperature of 23±2°C and relative humidity of 50±5%

Test Span: 120mm, required by applicant

Test Items	Test Method	Test Results		
Flournal Dranautica	ASTM D7031-11 Section 5.5	Flexural strength (MOR):	22.3	MPa
Flexural Properties	ASTM D6109-13	Flexural Stiffness (MOE):	2613	MPa



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Test Items, Method and Results:

Test Item: Creep recovery

Sample Condition: 40 hours at a temperature of 23±2°C and relative humidity of 50±5%

Test Span: 120mm, required by applicant

Test Items	Test Method	Test Results		
Creep recovery	ASTM D7031-11 Section 5.10	Creep recovery:	96	%



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Test Items, Method and Results:

Test Item: Freeze-thaw resistance

Sample Condition: Three cycles of water submersion, freezing and thawing.

Test Span: 120mm, required by applicant

Test Items	Test Method	Test Results		
Franza tha w Pasistanca	ASTM D7031-11 Section 5.20	Flexural strength (MOR):	14.1	MPa
Freeze-thaw Resistance	ASTM D6109-13	Flexural Stiffness (MOE):	1982	MPa

Note:

Exposure cycle condition:

- 1) Submerge underwater for 24 hours
- 2) Place in a freezer at-29°C for 24 hours
- 3) Return to room temperature for 24 hours



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Test Items, Method and Results:

Test Item: Resistance to artificial weathering - Fluorescent UV lamps

Test Sample: WPC CLADDING

Test Method: ASTM G154-16 Cycle 1

Light Source: UVA-340

The Exposure cycle:

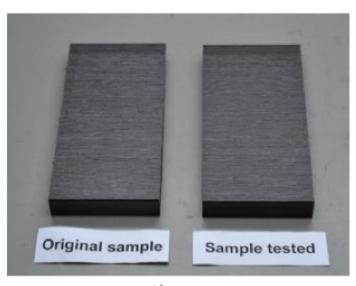
1) 8 hours dry, Irradiance: 0.89 W/m 2 /nm at 340 nm, Black-panel temperature: 60 °C \pm 3 °C

2) 4 hours condensation, Irradiance: UV lamps off, Black-panel temperature: 50 $^{\circ}$ C \pm 3 $^{\circ}$ C

Test Duration: 300 hours

Test Result:

Exposure time	ΔL*	Δa*	Δb*	ΔΕ*	Grey scale	Observation
300 hours	-0.79	-0.02	0.06	0.79	14-5	Partshowed slight color change



After test



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Test Items, Method and Results:

Test Item: Specific gravity

Sample Condition: 40 hours at a temperature of $23\pm2^{\circ}$ C and relative humidity of $50\pm5\%$

Test Items	Test Method	Test Results
Specific Gravity	ASTM D7031-11 Section 5.14 ASTM D2395-17	1.197 g/cm ³



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Test Items, Method and Results:

Test Item: Moisture content

Sample Condition: 40 hours at a temperature of 23±2°C and relative humidity of 50±5%

Test Items		Test Method	Test Results
Moisture o	ontent	ASTM D7031-11 Section 5.15 ASTM D4442-16	0.36%



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Test Items, Method and Results:

Test Item: Moisture absorption and thickness swell

Test Condition: Submersion in water at 23°C

Submersion Time: 24h

Test Items	Test Method	Test Results		
Moisture Absorption	ASTM D7031-11 Section 5.19	Water absorption:	0.44	%
and Thickness Swell	ASTM D1037-12 Section 23	Thickness swell:	0.14	%



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Test Items, Method and Results:

Test Item: Coefficient of Linear Thermal Expansion

Test Method: ASTM D696-16

Conditioning: Condition the test specimens at 23±2°Cand 50±10 % relative humidity for

not less than 40 h

Test Sample: WPC CLADDING

Specimen Size: 80×10×10 mm (length × width × thickness)

Temperature Range: From -30°C (-22°F) to 30°C (86°F)

Test Result:

Test Item	Result		
Coefficient of Linear Thermal Expansion	Mean value:	42.9	×10 ⁶ mm/mm/°C



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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: Torres Qi

Title: Reviewer Title: Project Engineer

Revision:

l	NO.	DATE	CHANGES	AUTHOR	REVIEWER
	180611002SHF-BP-2	2018-07-05	Firstissue	Kyle Wang	Torres Qi

Kyle Wang