SHANDONG LVSEN WOOD-PLASTIC COMPOSITE CO.,LTD

TEST REPORT

SCOPE OF WORK
WPC Co-extruded Hollow Decking

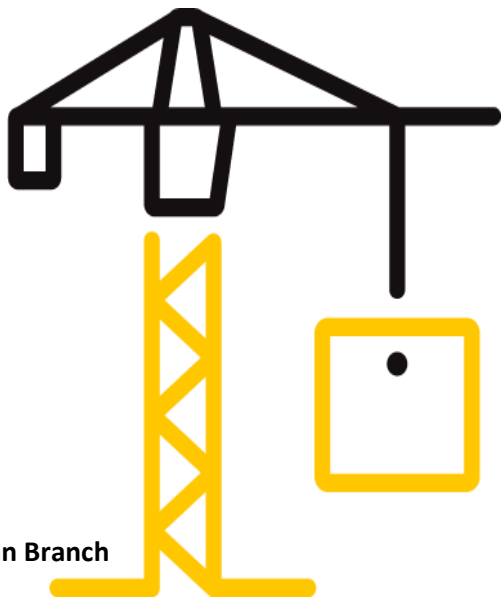
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250402010SHF-001

TEST DATE(S)
2025-04-02 - 2025-04-22

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2025-04-22

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Original Issue Date: 2025-04-22 Intertek Report No. 250402010SHF-001

Applicant: SHANDONG LVSEN WOOD-PLASTIC COMPOSITE CO.,LTD

Address: NANLING VILLAGE, GAOQIAO TOWN, YISHUI COUNTY, LINYI CITY, SHANDONG PROVINCE, CHINA

Attn: Yun Zhang

Manufacturer: SHANDONG LVSEN WOOD-PLASTIC COMPOSITE CO.,LTD

Address: NANLING VILLAGE, GAOQIAO TOWN, YISHUI COUNTY, LINYI CITY, SHANDONG PROVINCE, CHINA

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

Product Information

Product Name	Model	Specification
WPC Co-extruded Hollow Decking	LSC0-03	140x22 mm
Sample ID	**Sample Amount**	**Sample Received Date**
S250402010SHF.001~002	12 pcs	2025-03-27
Sample Description		**Brand**
About 140 x 22mm, see sample photo in Appendix A for detail		Lvsenwood

Test Methods And Standards

Test Standard	EN ISO 9239-1:2010 and EN ISO 11925-2:2020
Specification Standard	EN 13501-1:2018
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

Sally Xie Caspian Shen

Name: Sally Xie Name: Caspian Shen

Title: Reviewer Title: Project Engineer

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Test Report

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Test Items, Method and Results：

EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

1.1 CRITICAL HEAT FLUX TEST

The test was conducted in accordance with EN ISO 9239-1:2010. This test evaluates the wind-opposed burning behaviour and spread of flame of horizontally mounted floorings exposed to a heat flux radiant gradient in a test chamber, when ignited with pilot flames.

1.2 IGNITABILITY TEST

The test was conducted in accordance with EN ISO 11925-2:2020. This test evaluates the ignitability of a product under exposure to a small flame.

1.3 CLASSIFICATION CRITERIA

The classification was determined in accordance with EN 13501-1:2018. The class B_{fl} with its corresponding fire performance is given in the table below.

Table - Classes of reaction to fire performance for flooring.

Class	Test Method(s)	Classification criteria	Additional classifications
B_{fl}	EN ISO 9239-1 [a] and	Critical flux [b] ≥ 8.0 kW/m^2	Smoke production [c]
	EN ISO 11925-2 [d] Exposure = 15 s	F_S ≤ 150 mm within 20 s	-

Note:

a. Test duration = 30 min.

b. Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame within 30 min).

c. s1 = Smoke ≤ 750 % minutes; s2 = not s1.

d. Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.

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Test Items, Method and Results：

2 RESULTS AND OBSERATIONS

Method	Parameter	Result
EN ISO 9239-1:2010	Critical flux (transverse), kW/m^2	≥11
	Critical flux (longitudinal), kW/m^2	≥11
	Smoke production, % minutes	100
EN ISO 11925-2:2020 Exposure = 15 s	$F_S \leq 150$ mm within 20 s	Yes

3 CLASSIFICATION

The classification has been carried out in accordance with EN 13501-1.

Fire behaviour		Smoke production	
B_{fl}	-	s	*1*

Reaction to fire classification: B_{fl}-*s1*

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Test Items, Method and Results：

4 Test Photos of EN ISO 9239-1



Before test



After test

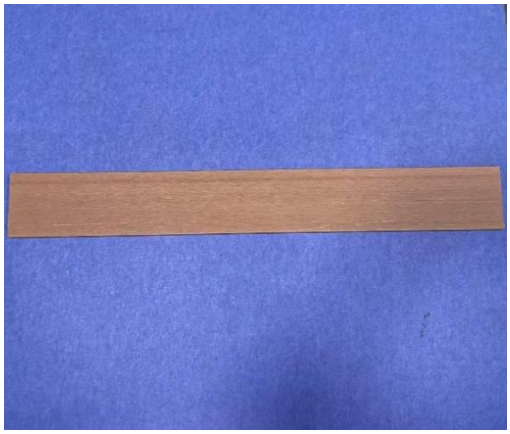
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Appendix A: Sample Received Photo



Front view (test side)



Back view

Revision:

NO.	Date	Changes
250402010SHF-001	2025-04-22	First issue