Guardian Building Products Ltd

TEST REPORT

SCOPE OF WORK
Square Hole Deck

REPORT NUMBER
201217002SHF-001

TEST DATE(S)
2020-12-17 - 2020-12-24

ISSUE DATE
2020-12-24

PAGES
7

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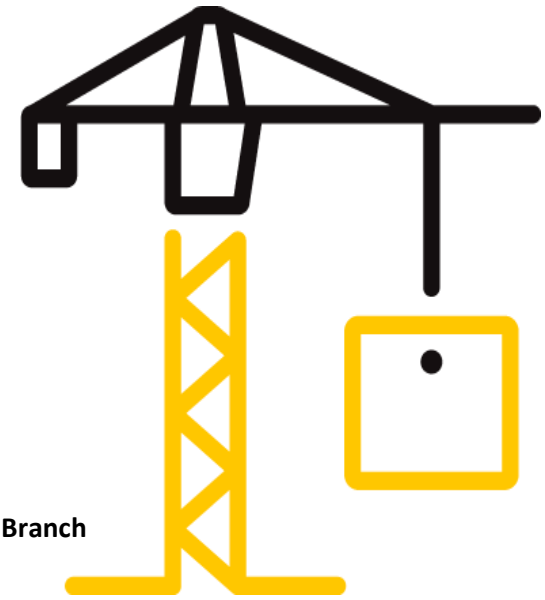

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Issue Date: 2020-12-24 Intertek Report No. 201217002SHF-001

Applicant: Guardian Building Products Ltd

Address: Unit 2-3 DUNSTALL PARK ROAD OFF, DERBY DE24 8HJ, UK

Attn: Bruce

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

Product Information

Product Name	Square Hole Deck	**Brand**	/
Sample Description	Good Condition	**Sample Amount**	25 pcs
		Received Date	2020-12-10

Sample ID	**Model**	**Specification**
S201217002SHF.001~002	Square Hole Deck	146mmX23mm

Test Methods And Standards

Test Standard	EN ISO 9239-1:2010 and EN ISO 11925-2:2010
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 relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

Report Authorized

Sally Xie Jay Gong

Name: Sally Xie Name: Jay Gong

Title: Reviewer Title: Project Engineer

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Test Report

Issue Date: 2020-12-24 Intertek Report No. 201217002SHF-001

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 11925-2:2010. 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 C_{fl} with its corresponding fire performance is given in the table below.

Table - Class of reaction to fire performance for flooring.

Class	Test Method(s)	Classification criteria	Additional classifications
C_{fl}	EN ISO 9239-1 [a] and	Critical flux [b] ≥ 4.5 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 Report

Issue Date: 2020-09-17 Intertek Report No. 200907012SHF-001

Test Items, Method and Results：

2 RESULTS AND OBSERATIONS

Method	Parameter	Result
EN ISO 9239-1:2010	Critical flux (transverse), kW/m^2	8.8
	Critical flux (longitudinal), kW/m^2	7.0
	Smoke production, % minutes	53
EN ISO 11925-2:2010 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	
C_{fl}	-	s	*1*

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

Test Report

Issue Date: 2020-09-17 Intertek Report No. 200907012SHF-001

Test Items, Method and Results：

4 Test Photos of EN ISO 9239-1

Before test

After test

Test Report

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Appendix A: Sample Received Photo

Front view (test side)

Back view

Section view

Revision:

NO.	Date	Changes	Author	Reviewer
201217002SHF-001	2020-12-24	First issue	Jay Gong	Sally Xie