

## TEST REPORT

No.: AJFTS25005369R01\_EN

Date: Aug 25,2025

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HANWEI ARTIFICIAL GRASS (CHANGZHOU) CO., LTD

888 NANDIAN ROAD, JINTAN DISTRICT, CHANGZHOU, JIANGSU, CHINA

**Sample Description** : ARTIFICIAL GRASS  
**Style/Item No.** : /  
**Manufacturer** : HANWEI ARTIFICIAL GRASS (CHANGZHOU) CO., LTD  
**Country of Origin** : CHINA  
**Country of Destination** : AUSTRALIA

The above sample(s) data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

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**SGS Ref. No.** : SHHL2508046156SD  
**Sample Receiving Date** : Aug 08,2025  
**Testing Period** : Aug 08,2025 to Aug 21,2025  
**Test Required** : AS ISO 9239.1-2003(R2016) Reaction to fire tests for floorings —Part 1: Determination of the burning behaviour using a radiant heat source.  
**Test result(s)** : See attached sheet

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd Anji Branch



Eva Zhang  
Approved signatory



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**I. Test conducted**

This test was conducted as per AS ISO 9239.1-2003(R2016) Reaction to fire tests for floorings —Part 1: Determination of the burning behaviour using a radiant heat source.

**II. Sample details**

Sample Description	Artificial Grass
Color	Green
Thickness	30.0mm
Area density	2.7 kg/m <sup>2</sup>
Specimen size	1050mm×230mm×30.0mm
Test surface	Lawn surface

**Conditioning:**

Prior to testing, the sample was conditioned to constant mass at temperatures of 23±2°C and at a relative humidity of 50±5% for at least 48 h, until constant mass is achieved.

**Mounting of Test Assembly:**

Fibre cement board, with its density approximate 1800kg/m<sup>3</sup>, thickness approximate 9mm, is as the substrate. The test specimens are fixed mechanically to the substrate. No joint in the specimens.

**III. Test results**

Distance (mm)	S1 (//)	S2 (⊥)	S3 (//)	S4 (//)
	Time (min: s)	Time (min: s)	Time (min: s)	Time (min: s)
50	3:15	3:26	3:19	3:11
100	3:48	4:00	3:54	3:42
150	4:18	4:42	4:24	4:21
200	4:46	5:11	4:56	4:51
250	6:23	6:53	6:18	6:32
300	7:11	7:41	7:06	7:26
350	9:37	11:26	9:44	9:51
400	12:06	--	12:36	13:02
450	--	--	--	--
500	--	--	--	--
550	--	--	--	--
600	--	--	--	--



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650	--	--	--	--
700	--	--	--	--
750	--	--	--	--
800	--	--	--	--
850	--	--	--	--
900	--	--	--	--
950	--	--	--	--
1000	--	--	--	--
All flame-out time (min:s)	27:21	25:42	26:57	27:31
Test duration (min:s)	30:00	30:00	30:00	30:00
The final maximum flame spread distance (mm)	440	380	430	420

	S1 (//)	S2 (⊥)	S3 (//)	S4 (//)
Flame front distance at 10 min (mm)	360	330	360	360
Flame front distance at 20 min (mm)	440	380	430	420
Flame front distance at 30 min (mm)	440	380	430	420
Heat Flux at 10 minutes, HF-10 (kW/m <sup>2</sup> )	6.0	6.8	6.0	6.0
Heat Flux at 20 minutes, HF-20 (kW/m <sup>2</sup> )	4.6	5.6	4.8	5.0
Heat Flux at 30 minutes, HF-30 (kW/m <sup>2</sup> )	4.6	5.6	4.8	5.0
CHF (Critical heat flux at extinguishment) (kW/m <sup>2</sup> )	4.6	5.6	4.8	5.0
<b>Results of the smoke measurement</b>				
The integral of the smoke (%×min)	238.0	221.6	234.6	230.5
Max. light attenuation (%)	26.8	21.2	25.2	23.7

**Summary of results:**

	S1 (//)	S2 (⊥)	S3 (//)	S4 (//)	Average
The integral of the smoke (%×min)	238.0	221.6	234.6	230.5	234.4
CHF (kW/m <sup>2</sup> )	4.6	5.6	4.8	5.0	4.8

Note: ⊥-Width direction; // --Length direction



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### Statement:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

### Photo Appendix:



SGS authenticate the photo on original report only

\*\*\*End of Report\*\*\*



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