JIANGXI GILARDINO BUILDING MATERIALSTECHNOLOGY CO.,LTD
ZHONGXIN ROAD, YUJIANG INDUSTRY PARK, YUJIANG COUNTY, YINGTAN CITY, JIANGXI PROVINCE.

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description	:	SPC FLOORING
SGS Ref No.	:	SDFS1905003200FF
Sample Receiving Date	:	May. 29, 2019
Test Performing Date	:	May. 29, 2019 to Jun. 12, 2019
Test Performed	:	Selected test(s) as requested by applicant
Test Result(s)	:	For further details, please refer to the following page(s)

Test Result Summary

Test(s) Requested	Result(s)	Comments
ASTM E 648-17a Standard test method for critical radiant flux of floor-covering systems using a radiant heat energy source	Class I	/
For further details, please refer to the following page(s)		

Signed for and on behalf of
Xiamen Branch, SGS-CSTC Co., Ltd.

Beck Hong
Approved Signatory

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Test conducted:

ASTM E648-17a Standard test method for critical radiant flux of floor-covering systems using a radiant heat energy source.

I. General information

Thickness	About 4.0mm
Area Density	About 8.31kg/m^2
Exposed face	Wood grain face
Precondition	Temperature: (21±3)℃ Humidity: (50±5)%, Duration: 168h
Mounting method	Fibre cement board, with its density about 1800kg/m^3, thickness about 8mm, is as the substrate.The specimens were fixed mechanically to the substrate.

II. Test results

Flame front advance			
Distance (cm)	Specimen1	Specimen 2	Specimen 3
	Time (minute: second)	Time (minute: second)	Time (minute: second)
5	5:42	5:31	6:01
10	-	-	-
15	-	-	-
20	-	-	-
25	-	-	-
30	-	-	-
35	-	-	-
40	-	-	-
45	-	-	-
50	-	-	-
55	-	-	-
60	-	-	-
65	-	-	-
70	-	-	-
75	-	-	-
80	-	-	-
85	-	-	-

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Distance (cm)	Specimen1	Specimen 2	Specimen 3
	Time (minute: second)	Time (minute: second)	Time (minute: second)
90	-	-	-
95	-	-	-
100	-	-	-
Extinguishing time	10:00	10:00	10:00
Burned distance (cm)	8	8	7
Observations	Charring	Charring	Charring

Calculation:

	Specimen1	Specimen 2	Specimen 3	Average	S	V
Critical radiant flux (W/cm^2)	1.09	1.09	1.09	1.09	0	0

Note: S-estimated standard deviation; V-coefficient of variation

RATING:

Note: ASTM E648 is solely a test procedure and, as such, has no specific pass/fail criteria of its own. The below specification criteria are cited for reference purposes only, and may or may not apply to this tested product.

The National Fire Protection Association Life Safety Code 101, Chapter 10, Section 10.2.7 “Interior Floor Finish Testing and Classification”, has a means of classifying materials with respect to critical radiant flux ratings when tested in accordance with NFPA 253, Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source, or ASTM E 648, Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.

International Building Code, Chapter 8, Interior Finishes, Section 804 “INTERIOR FLOOR FINISH”, was classified in accordance with ASTM E648 or NFPA 253. Such interior finish materials shall be grouped in the following classes in accordance with their critical radiant flux ratings.

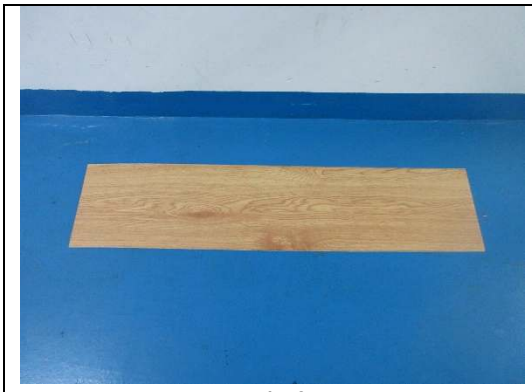
The classifications are as follows:

	Class I	Class II
Critical Radiant Flux, *watts/cm²*	≥ 0.45	≥ 0.22

Since the tested sample received a Critical Radiant Flux =1.09 *watts/cm²*, it would meet the requirement of Class I Interior Floor Finish.

Remark: This test was subcontracted to Shunde Branch, SGS-CSTC Co., Ltd.

Photo Appendix:



Sample face

Sample back

The testing report/certificate only refers to the sample(s) tested.

End of Report