

## TEST REPORT

No. : GZIN1906033304CM

Date : Aug 16, 2019

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CUSTOMER NAME: ARMSTRONG FLOORING PTY LTD.  
ADDRESS: 29-39 MILLS ROAD, BRAESIDE, VICTORIA 3195, AUSTRALIA

Sample Name : TIMBERLINE-TRANSLATIONS  
Product Specification : EN ISO 10582, ISO 9239-1 & AS/NZS 3837  
Manufacturer : Sourced by Armstrong Flooring Pty Ltd.  
Material and Mark : Resilient PVC Flooring

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

Date of Receipt : Jun 28, 2019  
Testing Start Date : Jun 28, 2019  
Testing End Date : Jul 16, 2019  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. GZ Branch Testing  
Center

Tobby Yang  
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center (Economic & Technical Development District)

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## I. Test Conducted

This test was conducted in accordance with AS/NZS 3837:1998(*Incorporating Amendment No.1*) Method of Test for Heat and Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter, under the horizontal orientation and Heat flux 50 kW/m<sup>2</sup>.

## II. Sample Description and Conditioning

Sample Name / Color	A sample of panel / Walnut
Precondition	The samples have been preconditioned at 23°C and 50% RH for 48 hours until the sample mass varied less than 0.1 gram.

## III. Test Result

Specimen No.	1	2	3	Avg
Test orientation	Horizontal			
Thickness / mm	3.0	3.1	3.0	3.0
Heat flux / (kW/m <sup>2</sup> )	50	50	50	50
Initial mass / g	27.6	27.9	27.5	27.7
Remained mass / g	8.2	8.0	8.0	8.1
Percentage of the total mass pyrolyzed / (%)	70.3	71.3	70.9	70.8
Sample mass loss (kg/m <sup>2</sup> )	2.15	2.21	2.17	2.2
Average rate of specimen mass loss per unit area/(g/m <sup>2</sup> .s) <sup>1)</sup>	1.9	1.2	1.7	1.6
Flashing or transitory flaming time at / s	-	-	-	-
Time to sustained flaming / s	16	16	16	16
Peak HRR /(kW/m <sup>2</sup> )	348.5	349.1	356.8	351.5
Time to Peak HRR / s	36	44	46	42
Average HRR(60s) /(kW/m <sup>2</sup> )	279.9	270.9	291.8	280.9
Average HRR(180s) /(kW/m <sup>2</sup> )	167.1	171.4	171.1	170.1
Average HRR(300s) /(kW/m <sup>2</sup> )	110.0	113.6	113.0	112.2
Total heat release /(MJ/m <sup>2</sup> )	39.0	45.8	43.0	42.6
Average Δhc,eff /(MJ/kg)	18.1	20.5	19.7	19.4
Average specific extinction area /(m <sup>2</sup> / kg)	632.7	582.8	623.3	612.9
Test duration <sup>2)</sup> /s	1140	1822	1306	1422.7
Additional observations <sup>3)</sup>	-	-	-	-

Remark: 1. The orifice constant is 0.04283; the exhaust flow rate is 0.024 m<sup>3</sup>/s; 3 specimens are tested under the same conditions.



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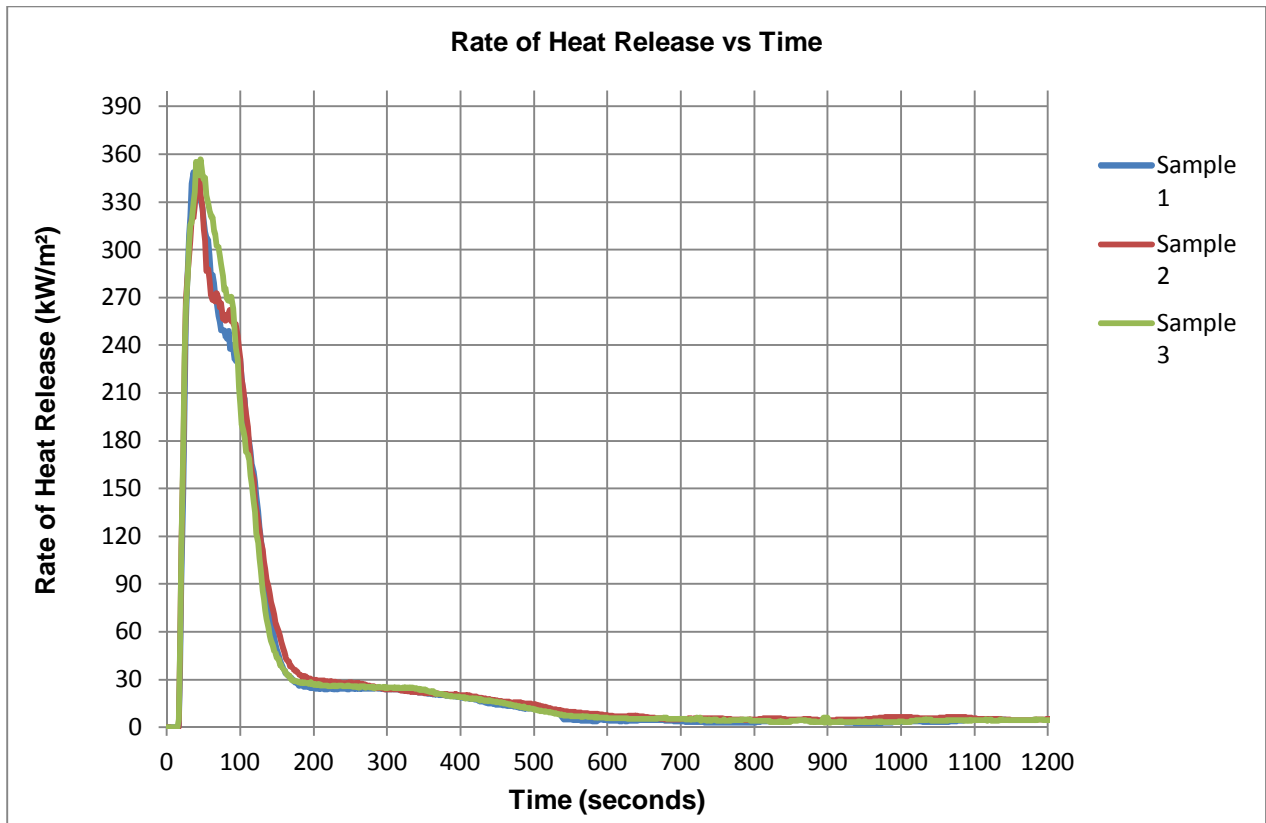
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2. The HRR curves of specimens are given bellow.

- 1) Computed over the period between ignition and the end of the test.
- 2) Collect all data until—(i) 2 min after any flaming or other signs of combustion cease;  
(ii) the average mass loss over a 1 min period has dropped below 150 g/m<sup>2</sup>; or  
(iii) 60 min have elapsed, whichever occurs first.
- 3) Observe and record physical changes to the sample such as melting, swelling and cracking.

**Curves:**



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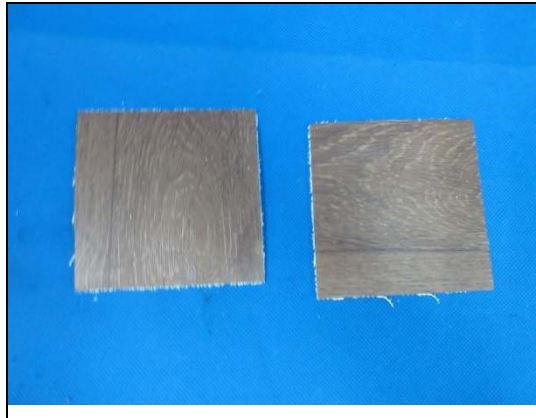
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### STATEMENT:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for the assessment of performance under real fire conditions.

### **Photo Appendix:**



SGS authenticate the photo on original report only

Note: The above test was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch

\*\*\*\*\* End of report\*\*\*\*\*



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Laboratory

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