

Bellaterra: July 4<sup>th</sup>, 2016

File number: **16/12446-1044 Part 2**

Petitioner: **FLINT FLOOR, S.L.**  
C/Ronda, 38  
08105 Sant Fost de Campsentelles  
Barcelona

## **CLASSIFICATION REPORT**

### **1.- PRODUCT CHARACTERISTICS**

Product's commercial reference: **FLINT HI FLOOR**

Compacted High pressure pressed laminate (HPL) composed by melaminic paper layers and phenolic paper substrate (internal layer).

Total thickness: 5,4±0,2 mm.

The product has 3 layers:

- Layer 1:  
Composition: Overlay + decorative paper impregnated with melamine resin.  
Thickness: 0,40 mm  
Aspect: Rough
- Layer 2:  
Composition: Kraft paper impregnated with phenolic resin.  
Thickness: 4,90 mm  
Density: 1,43 g/cm<sup>3</sup>  
Colour: Brown  
Aspect: Smooth
- Layer 3:  
Composition: Aluminium barrier.  
Thickness: 0,10 mm  
Colour: Aluminium  
Aspect: Smooth

Manufacturer: Flint Floor, S.L. Address: C/Ronda, 38. 08105 Sant Fost de Campsentelles (Barcelona)

The reproduction of this document is only authorised if it is made in its totality. Electronically signed reports in digital format are considered original documents, as well as its electronic copies. Their printing has no legal validity. This document has 3 pages, of which -- are annexes.

## **2- TEST REPORTS AND RESULTS**

### **2.1- Test Reports**

<b>Name of Laboratory</b>	<b>Test report reference number</b>	<b>Scope accreditation</b>	<b>Test method</b>
Applus – LGAI	14/9146-1409 M1 Part 1 and Part 2 Test dates: 08-10-2014 to 09-10-2014	ENAC (nº9/LE895)	UNE-EN ISO 9239-1:2011
Gaiker-IK4	P-16-18482/2/1 (transcribed by Applus: 16/12446-1044 Part 1) Test dates: 08-06-2016	ENAC (nº72/LE187)	ISO 5659-2:2012 EN 45545-2:2013+A1:2015. Annex C. Method 1

The petitioner declares that the material tested on both laboratories is the same.

### **2.2- Results of the Tests**

#### **REQUIREMENT 10**

<b>Test Method</b>	<b>Parameter</b>	<b>Number of tests</b>	<b>Continuous parameter mean</b>	<b>Compliance parameters R10-HL1</b>	<b>Compliance parameters R10-HL2</b>	<b>Compliance parameters R10-HL3</b>
T04 EN ISO 9239-1:2010	CHF (kW/m <sup>2</sup> )	4	<b>10,81</b>	≥ 4,5 W/m <sup>2</sup>	≥ 6 W/m <sup>2</sup>	≥ 8 W/m <sup>2</sup>
T10.03 EN ISO 5659-2:2012 25 kW/m <sup>2</sup>	Ds max (dimensionless)	3	<b>302,65</b>	≤ 600	≤ 300	≤ 150
T11.02 EN ISO 5659-2:2012 25 kW/m <sup>2</sup>	CIT <sub>G</sub> (4 minutes) (dimensionless)	3	<b>0,054</b>	≤ 1,2	≤ 0,9	≤ 0,75
T11.02 EN ISO 5659-2:2012 25 kW/m <sup>2</sup>	CIT <sub>G</sub> (8 minutes) (dimensionless)	3	<b>0,083</b>	≤ 1,2	≤ 0,9	≤ 0,75

**3- CLASSIFICATION AND FIELD OF APPLICATION**

This classification has been made in compliance with the procedures provided in Standard UNE-EN 45545-2:2013+A1:2016: "Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behaviour of materials and components".

The classifications obtained are the following ones:

<b>PRODUCT REFERENCE: FLINT HI-FLOOR</b>	CLASSIFICATION a/t EN 45545-2:2013+A1:2015
<b>REQUIREMENT</b>	<b>HAZARD LEVEL</b>
<b>R10</b>	<b>HL1</b>

**Field application**

Classifications valid for the product, detailed as in the description of the classified product paragraph and tested on the exposure face.

Classifications valid for any color and/or pattern of the product, as is detailed in EN 45545-2:2013+A1:2015 standard, chapter 4.2.f.

This document does not represent type approval or certification of the product.

Responsible of Fire Laboratory  
LGAI Technological Center S.A.

Responsible of Reaction to fire  
LGAI Technological Center S.A.

---

The results refer exclusively to the samples tested at the time and under the conditions indicated.

The uncertainties expressed in this document pertain to the expanded uncertainty, which has been obtained by multiplying the typical measurement uncertainty by the coverage factor k=2 which, for a regular distribution, corresponds to a coverage probability of approximately 95%.

**Applus+** guarantees that this task has been carried out in compliance with the requirements of our Quality and Sustainability System, and furthermore, that the contractual terms and legal regulations have been complied with.

In the framework of our improvement programme, we would appreciate any comments you may deem appropriate. These should be addressed to the manager who signs this document, or to the Quality Director of Applus+, at the following address: [satisfaccion.cliente@appluscorp.com](mailto:satisfaccion.cliente@appluscorp.com)

---