

## Test Report No. 21906A

### Sponsor

FORESTIA SAS  
2 rue de la carnoy  
59130 Lambersart  
France

### Construction product and trade name

Thermo bamboo **FELIXWOOD - SYMPHONY**

### Nature of the test

EN ISO 11925-2:2020 – Reaction to fire tests – Ignitability of products subjected to direct impingement of flame – Part 2: Single-flame source test (EN ISO 11925-2:2020) – flame application time : 30s.

### Summary of the results

Flame spread $F_s$ (mm)	$\leq 150$
Ignition of the filter paper	No

PREPARED BY

APPROVED BY

**This report consists of 6 pages**

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## 1. DESCRIPTION OF THE TEST METHOD

EN ISO 11925-2:2020 – Reaction to fire tests – Ignitability of products subjected to direct impingement of flame – Part 2: Single-flame source test.

The flame application time is 30 s.

There was no deviation from the specifications contained in the test standard.

The tests are performed at WFRGENT nv, Ottergemsesteenweg – Zuid 711, B-9000 Ghent, Belgium.

## 2. IDENTIFICATION OF THE PRODUCT

Date of test samples arrival : 24/03/2022

Identification of the samples : Prod. Place Known by the laboratory  
Prod. Line Not known by the sponsor  
Prod. Date December 2021  
Identification within the quality system:  
Test 4220112

Sampling done by : Forestia SAS (Mr. Melvyn Linley)

Sampling date : 21/03/2022

Name of the sponsor : FORESTIA SAS  
2 rue de la carnoy  
59130 Lambersart  
France

Name of the manufacturer/supplier : Known by the laboratory

Trade name : **FELIXWOOD - SYMPHONY**

Description of the tested product:

*This description is based on information given by the sponsor.*

	Nominal values (1)	Measured values (2)
<b>FELIXWOOD - SYMPHONY</b>		
Type of product	Thermo bamboo profiles made from bamboo strips that are compressed and heat treated at 200 °C. The profiles are matt pre-oiled.	
Manufacturer	(4)	
Profile width (mm)	139 (reduced to 90 mm for the test)	139
Visible width of the profile (mm)	127	127
Thickness (mm)	18	18
Density of the profile (kg/m <sup>3</sup> )	1150	1258
Type of profile	Symphony 130 (see Figure 1)	
Applied amount of oil (g/m <sup>2</sup> )	25	(3)
Use of fire retardants	No	
Surface structure	Smooth	
Colour	Brown	Brown

- (1) Based on the information given by the sponsor  
 (2) Values verified by the laboratory  
 (3) Unverifiable by the laboratory  
 (4) Known by the laboratory



**Symphony 130 - 1860x139x18mm**

**Figure 1: Cross section of the Symphony 130 profile**

Mounting and Fixing:

The test samples (250 mm x 90 mm) were tested free hanging in vertical position in the standard test frame. The décor side of the product was exposed to the pilot flame.

Conditioning, according to EN 13238, § 4.2 to constant mass.

Start of conditioning : 24/03/2022

End of conditioning : 05/04/2022

### 3. RESULTS AND OBSERVATIONS

Date of test : 05/04/2022

a) Test results

a.1) Surface exposure

Position of flame application:

- Centre line of the specimen, 40 mm above the bottom edge  
(see figure 11 of the standard)

#### Test results

Specimen No.	1	2	3	4	5	6
Ignition (yes/no)	yes	yes	yes	yes	yes	yes
Flame tip reaching the measuring mark, 150 mm above the flame application point within 60 s, after flame application (yes/no)	no	no	no	no	no	no
Moment of appearance (s)	-	-	-	-	-	-
Maximal flame spread (mm)	40	40	40	40	40	40
Ignition of the filter paper (yes/no)	no	no	no	no	no	no

#### Observations

Carbonisation at flame height

a.2) Edge exposure

Position of flame application:

- Centre of the width of the bottom edge of the test specimen 1,5 mm behind the surface (see figure 8b of the standard).

**Test results**

Specimen No.	1	2	3	4	5	6
Ignition (yes/no)	yes	yes	yes	yes	yes	yes
Flame tip reaching the measuring mark, 150 mm above the flame application point within 60 s, after flame application (yes/no)	no	no	no	no	no	no
Moment of appearance (s)	-	-	-	-	-	-
Maximal flame spread (mm)	40	40	35	30	50	40
Ignition of the filter paper (yes/no)	no	no	no	no	no	no

**Observations**

Carbonisation at flame height

b) Summary of test results

*The test results relate only to the behaviour of the test specimens of a material under the particular conditions of the test. They are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.*

*The test results are only valid for the specimens of the product as they have been tested.*

The following test results were obtained in accordance with the standard EN ISO 11925-2:2020:

Flame spread $F_s$ (mm)	$\leq 150$
Ignition of the filter paper	No

c) Uncertainty of measurement

The uncertainty of test results for this test is described in Annex A of the test standard. The evaluation is based on an interlaboratory trial involving 10 laboratories and 12 products. For all times measured, the absolute reproducibility was within 5 s. For the yes/no answers the degree of uncertainty was generally a function of the product itself, rather than the method.