

Reaction to fire classification report No. 21906C

Owner of the classification report

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Introduction

This classification report defines the classification assigned to the product '**FELIXWOOD - SYMPHONY**' in accordance with the procedures given in the standard EN 13501-1:2018: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

This classification report consists of 5 pages and may only be used or reproduced in its entirety

1. DETAILS OF CLASSIFIED PRODUCT

a) General

The product **FELIXWOOD-SYMPHONY** is defined as '*thermo bamboo*'.
Its classification is valid for the following end use application(s):
Used as wall cladding.

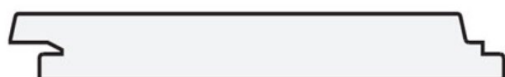
b) Product description

This description is based on information given by the sponsor.

Nominal values (1)	
FELIXWOOD - SYMPHONY	
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
Visible width of the profile (mm)	127
Thickness (mm)	18
Density of the profile (kg/m ³)	1150
Type of profile	Symphony 130 (see Figure 1)
Applied amount of oil (g/m ²)	25
Use of fire retardants	No
Surface structure	Smooth
Colour	Brown

(1) Based on the information given by the sponsor

(4) Known by the laboratory



Symphony 130 - 1860x139x18mm

Figure 1: Cross section of the Symphony 130 profile

More details (e.g. mounting and fixing) are available in the test report(s) in support of this classification (§2a).

2. TEST REPORTS AND EXAP REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

a) Test reports (and EXAP reports)

Name of the laboratory	Name of the sponsor	Test report ref. No. and test date	Test method and date
WFRGENT nv Ghent, Belgium	FORESTIA SAS	21906A: 05/04/2022	EN ISO 11925-2:2020
WFRGENT nv Ghent, Belgium	FORESTIA SAS	21906B: 17/03/2022	EN 13823:2020

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class C-s1,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) (1) 30 s flame application: <u>Surface exposure</u> - front side <u>Edge exposure</u> - mid point 1,5 mm behind surface	$F_s \leq 150$ mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
	$F_s \leq 150$ mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
	(*) The material didn't melt nor pull away from the pilot burner.					
	(1) Based on the results obtained in test report No. 21906A.					
EN 13823 (2)	FIGRA _{0,4 MJ} (W/s)	3	163	(-)	≤ 250	(-)
	LFS _{<edge}		(-)	Yes	(-)	Yes
	THR _{600s} (MJ)		11,3	(-)	≤ 15	(-)
	SMOGRA (m ² /s ²)		1	(-)	≤ 30	(-)
	TSP _{600s} (m ²)		16	(-)	≤ 50	(-)
	Flaming droplets/particles					
f < 10 s	(-)	No	(-)	No		
f > 10 s	(-)	No	(-)	No		
(2) Based on the results obtained in test report No. 21906B.						

(-) Not applicable.

CLASSIFICATION AND FIELD OF APPLICATION

a) Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

b) Classification

The product **FELIXWOOD-SYMPHONY** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
C	s1	d0

c) Field of application

This classification for the product as described in §1b, is valid for the following end use applications:

- Substrate: Euro class A2-s1,d0 or better, excluding paper faced gypsum plasterboards, with a nominal thickness of at least 9 mm and a nominal density of at least 652,5 kg/m³
- Fixing: mechanically fixed onto vertical wooden battens (thickness 28 mm, width 70 mm, density 500 kg/m³) using RVS symphony mounting clips.
- With airgap of 28 mm
- Direction: horizontal
- Joints: with horizontal tongue and groove joints

This classification is valid for the following product parameters:

- Nominal thickness: 18 mm
- Nominal density: 1150 kg/m³
- Profile width: 139 mm
- Type of profile: Symphony 130
- Applied amount of oil : 25 g/m²
- Without use of fire retardants
- Surface structure: smooth
- Colour: brown

3. RESTRICTIONS

At the time the standard EN 13501-1:2018 was published, no decision was made concerning the duration of validity of a classification report.

Provisions of Regulation (EU) 305/2011, commonly known as the Construction Products Regulation (CPR), prevail over any conflicting provisions in the harmonized standards and technical specifications.

4. WARNING

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

According to the information mentioned by the sponsor on the technical information sheet there was no product standard for CE marking available at the time the classification report for the tested material/product was drafted.

When such a product standard is published, this report may be submitted again to the laboratory to evaluate the adequacy of the report for CE marking.

The test laboratory has played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide evidence for the traceability of the samples tested.

PREPARED BY

APPROVED BY

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