

Test Report

Number: GZHH0045863602

Applicant: FIBERPLAST BIOBASED BV
DE KLETTEN 10 9206 BA DRACHTEN
FRIESLAND THE NETHERLANDS

Date: Jul 22, 2022

Attn: GARY DING

Sample Description:

One (1) group submitted sample said to be **Classic Deck Pro SXS-035, 150X23mm decking**

P. O. No. : Classic Deck Pro SXS-035, 150X23mm decking

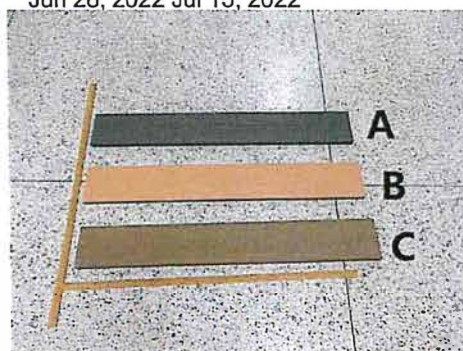
Buyer : Fiberplast Biobased BV

Country of Destination : Holland

Country of Origin Date : China

Sample Received : Jun 28, 2022

Testing Period : Jun 28, 2022 Jul 15, 2022



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued





Total Quality. Assured.

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Conclusion:

Tested sample
Submitted samples

Test item
Fire Classification Test on WPC Decking
- As per EN 13501-1: 2018

Result
See test
conducted

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines

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Tests Conducted

1 Fire Classification Test on WPC Decking

As per EN 13501-1:2018, the tested samples were subjected to the following tests.

Sample description: WPC Decking

Sample thickness: 22.6mm

Initial inspection: No any damage was found

Executive summary:

Sample A:

No.	Test item			Test method	Standard's requirement	Test result	Conclusion
1	Critical heat flux			EN ISO 9239-1: 2010	$\geq 4.5\text{kW/m}^2$	5.4kW/m^2	Pass
2	Flammability	Surface flame attack (Exposure = 15 s)	Flame spread within 20s	EN ISO 11925-2:2010+AC: 2011	C_{fi} $\leq 150\text{mm}$	22mm	Pass
3	Smoke production			EN ISO 9239-1:2010	s1 $\leq 750\% \times \text{min}$ s2 Not s1	$80.1\% \times \text{min}$	Class: s1
Conclusion	EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests : C_{fi} - s1						
Remark	The test results relate to the behavior of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.						



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Sample B:

No.	Test item			Test method	Standard's requirement	Test result	Conclusion
1	Critical heat flux			EN ISO 9239-1: 2010	$\geq 4.5 \text{ kW/m}^2$	5.7 kW/m^2	Pass
2	Flammability	Surface flame attack (Exposure = 15 s)	Flame spread within 20s	EN ISO 11925-2:2010+AC: 2011	C_{fl} $\leq 150 \text{ mm}$	23mm	Pass
3	Smoke production			EN ISO 9239-1:2010	s1 $\leq 750\% \times \text{min}$ s2 Not s1	$78.7\% \times \text{min}$	Class: s1
Conclusion	EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests : C_{fl} - s1						
Remark	The test results relate to the behavior of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.						

Sample C:

No.	Test item			Test method	Standard's requirement	Test result	Conclusion
1	Critical heat flux			EN ISO 9239-1: 2010	$\geq 4.5 \text{ kW/m}^2$	5.3 kW/m^2	Pass
2	Flammability	Surface flame attack (Exposure = 15 s)	Flame spread within 20s	EN ISO 11925-2:2010+AC: 2011	C_{fl} $\leq 150 \text{ mm}$	23mm	Pass
3	Smoke production			EN ISO 9239-1:2010	s1 $\leq 750\% \times \text{min}$ s2 Not s1	$90.6\% \times \text{min}$	Class: s1
Conclusion	EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests : C_{fl} - s1						
Remark	The test results relate to the behavior of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.						



Tests Conducted

Annex A

Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classification
A1 _n	EN ISO 1182 ^a and	$\Delta T \leq 30 \text{ }^\circ\text{C}$; and $\Delta m \leq 50 \%$; and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2,0 \text{ MJ/kg}^a$ and $PCS \leq 2,0 \text{ MJ/kg}^b$ and $PCS \leq 1,4 \text{ MJ/m}^2^c$ and $PCS \leq 2,0 \text{ MJ/kg}^d$	-
A2 _n	EN ISO 1182 ^a or	$\Delta T \leq 50 \text{ }^\circ\text{C}$ and $\Delta m \leq 50 \%$ and $t_f \leq 20 \text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3,0 \text{ MJ/kg}^a$ and $PCS \leq 4,0 \text{ MJ/m}^2^b$ and $PCS \leq 4,0 \text{ MJ/m}^2^c$ and $PCS \leq 3,0 \text{ MJ/kg}^d$	-
	EN ISO 9239-1 ^e	Critical flux ^f $\geq 8,0 \text{ kW/m}^2$	Smoke production ^g
B _n	EN ISO 9239-1 ^e and	Critical flux ^f $\geq 8,0 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
C _n	EN ISO 9239-1 ^e and	Critical flux ^f $\geq 4,5 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	
D _n	EN ISO 9239-1 ^e and	Critical flux ^f $\geq 3,0 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	



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Class	Test method(s)	Classification criteria	Additional classification
E _{fl}	EN ISO 11925-2 ^h : Exposure = 15 s	F _s ≤ 150 mm within 20 s	
F _{fl}	No performance determined		

^a For homogeneous products and substantial components of non-homogeneous products.
^b For any external non-substantial component of non-homogeneous products.
^c For any internal non-substantial component of non-homogeneous products.
^d For the product as a whole.
^e Test duration = 30 min.
^f Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).
^g s1 = Smoke ≤ 750 % minutes;
s2 = not s1.
^h Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band w = U) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Shenzhen Limited, Guangzhou Branch. The testing data and result issued by this report are just for scientific research, teaching, internal quality control, product research and development etc. on reference only in the territory of the People's Republic of China.

