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Test Report Number: GZHH0045863602

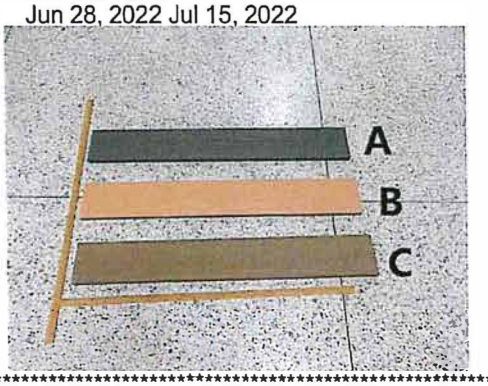
Applicant: FIBERPLAST BIOBASED BV
DE KLETTEN 10 9206 BA DRACHTEN
FRIESLAND THE NETHERLANDS

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



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

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To be continued

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Conclusion:

Tested sample	Test item	Result
Submitted samples	Fire Classification Test on WPC Decking - As per EN 13501-1: 2018	See test conducted

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

Victor T.J. Wang
Assistant General Manager

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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	C_{fl}	≥4.5kW/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		⩽150mm	22mm	Pass
3	Smoke production			EN ISO 9239-1:2010	s1	⩽ 750%×min	80.1%×min	Class: s1
					s2	Not 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.							

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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	C_{fl}	≥4.5kW/m²	5.7kW/m²	Pass
2	Flammability	Surface flame attack (Exposure = 15 s)	Flame spread within 20s	EN ISO 11925-2:2010+AC: 2011		⩽150mm	23mm	Pass
3	Smoke production			EN ISO 9239-1:2010	s1	⩽ 750%×min	78.7%×min	Class: s1
					s2	Not 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	C_{fl}	≥4.5kW/m²	5.3kW/m²	Pass
2	Flammability	Surface flame attack (Exposure = 15 s)	Flame spread within 20s	EN ISO 11925-2:2010+AC: 2011		⩽150mm	23mm	Pass
3	Smoke production			EN ISO 9239-1:2010	s1	⩽ 750%×min	90.6%×min	Class: s1
					s2	Not 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.							

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Annex A

Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classification
$A1_{fl}$	EN ISO 1182 [a] and	$\Delta T \leq 30$ °C; and $\Delta m \leq 50$ %; and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2{,}0$ MJ/kg [a] and $PCS \leq 2{,}0$ MJ/kg [b] and $PCS \leq 1{,}4$ MJ/m^2 [c] and $PCS \leq 2{,}0$ MJ/kg [d]	-
$A2_{fl}$	EN ISO 1182 [a] or	$\Delta T \leq 50$ °C and $\Delta m \leq 50$ % and $t_f \leq 20$ s	-
	EN ISO 1716 and	$PCS \leq 3{,}0$ MJ/kg [a] and $PCS \leq 4{,}0$ MJ/m^2 [b] and $PCS \leq 4{,}0$ MJ/m^2 [c] and $PCS \leq 3{,}0$ MJ/kg [d]	-
	EN ISO 9239-1 [e]	Critical flux [f] $\geq 8{,}0$ kW/m^2	Smoke production [g]
B_{fl}	EN ISO 9239-1 [e] and	Critical flux [f] $\geq 8{,}0$ kW/m^2	Smoke production [g]
	EN ISO 11925-2 [h]: Exposure = 15 s	$Fs \leq 150$ mm within 20 s	-
C_{fl}	EN ISO 9239-1 [e] and	Critical flux [f] $\geq 4{,}5$ kW/m^2	Smoke production [g]
	EN ISO 11925-2 [h]: Exposure = 15 s	$Fs \leq 150$ mm within 20 s	
D_{fl}	EN ISO 9239-1 [e] and	Critical flux [f] $\geq 3{,}0$ kW/m^2	Smoke production [g]
	EN ISO 11925-2 [h]: Exposure = 15 s	$Fs \leq 150$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	Fs ≤ 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

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End of report

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