

Test Report

Number: GZHH00368452

Applicant: OAKIO PLASTIC WOOD BUILDING MATERIALS CO., LTD
BUILDING 1, HUAMAO BUILDING, WENCHANG
ROAD 1, HUIZHOU, GUANGDONG,
CHINA

Date: Jan 09, 2018

Attn: Tim Xu

Sample Description:

One (1) group of submitted sample said to be :
Item name : **Matshield (Co-extrusion) Composite Decking.**
Manufacturer : Oakio Plastic Wood Building Materials Co.,Ltd
Country of Origin : China
Date Sample Received : Dec 06, 2017



Tests conducted:

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

Conclusion:

<u>Tested sample</u>	<u>Test item</u>	<u>Result</u>
Submitted sample	Fire Classification Test on Sandblasted (Co-extrusion) Composite Decking - As per EN 13501-1:2007+A1:2009	B _{fl} -s1

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


Ben N.L. Lin
General Manager



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Tests Conducted

1 Fire Classification Test on Matshield (Co-extrusion) Composite Decking

As per the client's request, the tested samples were subjected to the following tests.

Sample description: Hollowed WPC decking

Sample thickness: 25.0 mm

Initial inspection: No any damage was found

Executive summary:

No.	Test item			Test method	Standard's requirement	Test result	Conclusion
1	Critical heat flux			EN ISO 9239-1: 2010	$\geq 8.0 \text{ kW/m}^2$	8.5 kW/m ²	Pass
2	Flammability	Surface flame attack (Exposure = 15 s)	Flame spread within 20s	EN ISO 11925-2: 2010	$\leq 150\text{mm}$	123mm	Pass
3	Smoke production			EN ISO 9239-1:2010	$\leq 750\% \times \text{min}$ Not s1	695% \times min	Class: s1
Conclusion	EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests: B _{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 ^{2c} 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 ^{2b} and $PCS \leq 4,0$ MJ/m ^{2c} 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	$F_s \leq 150$ 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	$F_s \leq 150$ 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	$F_s \leq 150$ mm within 20 s	-
E _{fl}	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150$ mm within 20 s	-
F _{fl}	No performance determined		



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- ^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

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