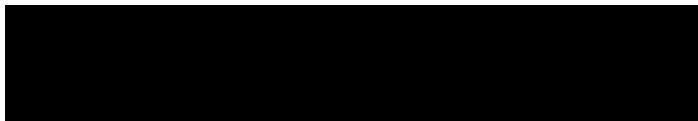


Test Report

Number: CZDG005686 53

Applicant:



Date: Jan 09, 2018

Sample Description:

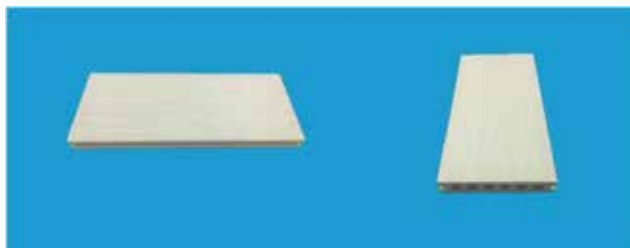
One (1) group of submitted sample said to be :

Item name : **Composite Decking.**

Manufacturer :

Country of Origin :

Date Sample Received : Dec 06, 2017



Tests conducted:

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

Conclusion:

Tested sample
Submitted sample

Test item
Fire Classification Test on Composite
Decking
- As per EN 13501-1:2007+A1:2009

Result
B_{fl}—s1

Authorized by:

For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch. Hardlines

Ben N.L. Lin
General Manager



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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Test Report

Number: CZDG00568653

Tests Conducted

1 Fire Classification Test on Composite Decking

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

tests. Sample description: Hollow 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	$B_{fl} \leq 150\text{mm}$	123mm	Pass
3	Smoke production			EN ISO 9239-1:2010	$s1 \leq 750\% \times \min$ $s2 \text{ Not } s1$	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.						



Test Report

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Tests Conducted

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	$\Delta T \leq 30\text{ }^{\circ}\text{C}$; 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 _{fl}	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 _{fl}	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 _{fl}	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 _{fl}	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	-
E _{fl}	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150\text{ mm}$ within 20 s	-
F _{fl}	No performance determined		



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Tests Conducted

- ^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 $\leq$ 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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