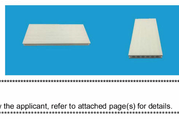
Test Report Number: CZDG00568653

Applicant: Changzhou Homy Home Co., Ltd
Building 3, No. 21 West Labour Road,
Tianning District, Changzhou City, Jiangsu Province, China

Date: Jan 09, 2018

Sample Description:
One (1) group of submitted sample said to be :
Item name : **Composite Decking.**
Manufacturer : Changzhou Homy Home 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:

Tested sample	Test item	Result
Submitted sample	Fire Classification Test on Composite Decking - As per EN 13501-1:2007+A1:2009	B_{fl}—s1

Authorized by:
For Intertek Testing Services Shenzhen Ltd. Guanzhou Branch. Hardines
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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	B_{fl}	≥8.0 kW/m²	8.5 kW/m²	Pass
2	Flammability	Surface flame attack (Exposure = 15 s)	Flame spread within 20s	EN ISO 11925-2: 2010		≤150mm	123mm	Pass
3	Smoke production			EN ISO 9239-1:2010	s1	≤ 750%×min	695%×min	Class: s1
					s2	Not 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/m² [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/m² [c] and $PCS \leq 4{,}0$ MJ/m² [d] and $PCS \leq 3{,}0$ MJ/kg [d]	-
	EN ISO 9239-1 [e]	Critical flux [f] ≥ 8,0 kW/m²	Smoke production [g]
B_{fl}	EN ISO 9239-1 [e] and	Critical flux [f] ≥ 8,0 kW/m²	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] ≥ 4,5 kW/m²	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] ≥ 3,0 kW/m²	Smoke production [g]
	EN ISO 11925-2 [h]: Exposure = 15 s	$Fs \leq 150$mm within 20 s	-
E_{fl}	EN ISO 11925-2 [h]: Exposure = 15 s	$Fs \leq 150$ 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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