

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	B _{fl} -s1
	- As per EN 13501-1:2007+A1:2009	

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
深圳天祥质量技术服务有限公司广州分公司
#111 TCL Cultural Industry Park, Guangpu-west Road, Science City, High and New Technology Industrial Development Zone, Guangzhou. / E501, No.7-2, Caipin Road, Guangzhou Science City, GETDD Guangzhou.
广州高新技术产业开发区科学城光谱西路 69 号 TCL 文化产业园汇创空间 111/广州经济技术开发区科学城彩频路 7 号之二 E501(510663)

Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
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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

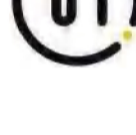
Executive summary:

No.	Test item			Test method	Standard's requirement	Test result	Conclusion
1	Critical heat flux			EN ISO 9239-1: 2010	≥8.0 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} ≤150mm	123mm	Pass
3	Smoke production			EN ISO 9239-1:2010	s1 ≤750%×min Not s1	695%×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	$\Delta T \leq 30\text{ }^{\circ}\text{C}$; and $\Delta m \leq 50\text{ }\%$; 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 $\Delta m \leq 50\text{ }\%$ 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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- ^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 $\leq 750\text{ }\%$ 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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