

Vertex Floors Limited

ROOM B n C,
15/F HANG SENG CAUSEWAY BAY BUILDING,
28 YEE WO STREET, CAUSEWAY BAY,
HONGKONG

contact

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Date

26/03/12

TEST REPORT 12-186A

Samples received :

Heterogeneous Click System PVC Floor Tile
Thickness: 4.2 mm; Density: 2100 ± 50 kg/m³
Manufacturer: Zhangjiagang Elegant Plastics Co., Ltd.
Received on 09/03/2012

Aim of the test : determination of fire behavior

Test conditions :

Standard: **EN ISO 9239-1 (2002)***

Method: Before the test the samples are not cleaned with a spray-extraction machine. A floorcovering is **put on** (loose laid) to a fibre cement board (Eflex). During the test, the specimen is irradiated by a gas radiator at an angle of 30°. A small flame is used to ignite the specimen. The specimen is ignited during 10 minutes. In case of inflammable specimens, the test lasts until the flame is extinguished, but 30 minutes at the most. The criterion is the burned length, from which the critical radiant flux is deduced using a calibration curve.

Number of tests: 4

Measurement uncertainty: The relative reproducibility for 3 repetitions is 15.6% for the flux, 84.5% for the smoke development.

Conditioning samples: 23 ± 2 °C and 50 ± 5 % R.H.

The tests were performed in week 12/2012

The test results only apply to materials that correspond to the tested sample. Forgery will be legally prosecuted, just like partial reproduction without prior written permission. Tests that are marked *are accredited, those marked ° are not accredited. Advices and interpretations are not covered by the accreditation.

The department of Textiles is Notified laboratory n°1611 for the European Products directive 89/106/EC.

OBTAINED RESULTS

a) Critical Flux :

Sample	Burned length (mm)		
	after 10 min	after 20 min	after 30 min
length	90	90	90
width	140	140	140
width	135	135	135
width	130	140	140
Average (of width)	135	138	138

Sample	Burned length maximum (mm)	Extinction (s)	Critical Flux (kW/m ²)
length	90	771	10.8
width	140	795	10.2
width	135	732	10.3
width	140	822	10.2
Average (of width)	138	-	10.0

b) Smoke development:

Sample	Smoke development (%/min)			Smoke development (%/min) Maximum
	after 10 min	after 20 min	after 30 min	
length	53	61	61	61
width	87	98	98	98
width	93	98	98	98
width	106	129	129	129
Average (of width)	95	108	108	108



Didier Van Daele
Head of floorcovering/fire tests

Johanna Louwagie
Head of physical tests

Prof. Dr. Paul KIEKENS, dr. h. c.
Head of Department

ENCLOSURE TO REPORT 12-186A

Classification according to EN 13501 -1 (2002)°

Classification	EN ISO 11925-2 (ignition time = 15 s)	EN ISO 9239-1 (test period = 30 min)	CLASS
B _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m ²	X
C _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m ²	
D _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m ²	
E _{fl}	F _s ≤ 150 mm in 20 s	No demand	
F _{fl}	No demand	No demand	

Additional classification smoke development according to EN 13501-1 (2002)°

	CLASS
Smoke development ≤ 750%.min	s1 X
Smoke development > 750%.min	s2



Test report No. FCHL – 44/12

Customer:

Vertex Floors Limited
Room B n C, 15/F Hang Seng Causeway Bay Building,
28 Yee Wo Street, Causeway Bay

Object of the test

DETERMINATION OF THE CONTENT OF FORMALDEHYDE

Date: 2012-03-16

Number of pages: 2

Number of annexes: 0

Copies: 2

Distribution list: 1 copy customer
(English version)
1 copy archive PCHL

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Ing. Jaromír Srba
head of the Physical and chemical laboratory

1. OBJECT AND PURPOSE OF THE TEST:

The object of the test was the determination of the content of formaldehyde in the supplied samples of PVC Floors Tiles.

2. TEST SAMPLES:

~ sample codes	:	sample no. 123 - 1
~ sample name	:	Heterogeneous Click System PVC Floors Tiles
~ manufacturer	:	Zhangjiagang Elegant Plastics Co., Ltd. Hexing Street, Jinfeng Town, Zhangjiagang City, Jiangsu, P.R.China
~ quantity, size	:	3 pieces, (605 x 190) mm
~ nominal thickness :	:	4,2 mm
~ density	:	2100±50 kg/m ³
~ date of production	:	unknown

3. RECEIPT OF SAMPLES:

~ date of reception	:	March 8. 2012
~ place of reception	:	VVÚD – FCHL
~ received	:	VVÚD; Ing. Srba
~ handed down	:	Zhangjiagang Elegant Plastics Co., Ltd. by post

4. TEST METHOD:

TP-VVÚD-2.64.001 (ČSN EN 717-1) – Determination of formaldehyde in test chamber of VVÚD

➤ volume of the chamber	0,225 m ³
➤ determination of emission value	by the acetylacetone method

Test method TP-VVÚD-2.64.001 is available in laboratory VVÚD.

5. DATE OF TEST:

March 12. – 14. 2012

6. TEST RESULT:

emission value *sample no. 123 - 1* **0,007 mg HCHO/m³ of air**