

ADORE FLOORS

TEST REPORT

REPORT NUMBER 171212009SHF-BP-3-R1

ISSUE DATE 2018/1/24

REVISED DATE 2018/4/20

PAGES 6

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Issue Date:	2018/4/20	Intertek Report No.	171212009SHF-BP-3-R1
Applicant:	Adore Floors		
Applicant Address:	Adore House, Lower Penkridg	ge Road, Acton Trussell, S	Stafford, U.K.
Attn:	Arlene		
SUBJECT:	Performance testing Name 1: Regent (Sovereign – Name 2: Regent Solid Rigid Co	Monarch – Viceroy – Re ore	cord 30)

Dear Sir,

This test report represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

TEST METHODS AND STANDARDS

Refer to the next following Pages.

SAMPLE ID	MODEL	SPECIFICATION
S171212009SHF.004	Sovereign	1220*181*6.0mm

SAMPLE RECEIEVED:	2017/12/11		
TESTED FROM:	2017/12/12	то	2018/1/24

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Intertek Report No. 171212009SHF-BP-3-R1

Test Items, Method and Results:

Test Item: Volatile organic compounds content analysis

Test Method: With reference to

ISO 16000-3:2011 Indoor air - Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air - Active sampling method;

ISO 16000-6:2011 Indoor air - Part 6: Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA[®] sorbent, thermal desorption and gas chromatography using MS or MS/FID;

ISO 16000-9:2006 Indoor air - Part 9: Determination of the emission of volatile organic compounds from building products and furnishing - Emission test chamber method;

ISO 16000-11:2006 Indoor air - Part 11: Determination of the emission of volatile organic compounds from building products and furnishing - Sampling, storage of samples and preparation of test specimens.

Test Procedure:

The sample was tested in the emission test chamber. After 7 days, chamber air samples were collected. Samples analyzed for individual VOCs and TVOC were collected on sorbent tubes Tenax TA, and were detected by Automatic Thermal Desorption-Gas Chromatography/Mass Spectrometric (ATD-GC/MS). Samples analyzed for aldehydes were collected on DNPH cartridge, and were detected by High Performance Liquid Chromatography-Diode-Array Detector (HPLC-DAD).

Test condition: Chamber type: 1.0 m³ stainless steel chamber Climatic conditions: 23°C, 50% R.H Air exchange: 0.5 h⁻¹ Loading factor: 0.803 m²/m³ Sampling: Tenax TA & DNPH cartridge



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Intertek Report No. 171212009SHF-BP-3-R1

Test result:

1. Volatile Organic Compounds (VOC) Emission

The emission of the substances was classified according to a scale with 4 classes of Exposure

Concentrations ranging from A^+ to C. A^+ indicating a very low emission level and C is a high level emission. The results of the tested sample after 7 days are shown in Table 1.

Testing compound	CAS No.	Limit values of emission classes ⁽¹⁾ (µg/m ³)				Chamber concentration	Predicted concentrati -on	Emission classes
		A^+	А	В	С	(µg/11)	(µg/m ³) ⁽²⁾	
Formaldehyde# (3)	50-00-0	<10	<60	<120	>120	ND ⁽⁴⁾	< 2.5 ⁽⁵⁾	A ⁺
Acetaldehyde# (3)	75-07-0	<200	<300	<400	>400	ND ⁽⁴⁾	< 2.5 ⁽⁵⁾	A ⁺
Toluene	108-88-3	<300	<450	<600	>600	37.5	18.7	A ⁺
Tetrachloroethyl- ene	127-18-4	<250	<350	<500	>500	ND ⁽⁴⁾	< 1 ⁽⁵⁾	A^{+}
Xylene	1330-20-7	<200	<300	<400	>400	ND ⁽⁴⁾	< 1 ⁽⁵⁾	A^+
1,2,4- trimethylbenzene	95-63-6	<1000	<1500	<2000	>2000	ND ⁽⁴⁾	< 1 ⁽⁵⁾	A^{+}
1,4- dichlorobenzene	106-46-7	<60	<90	<120	>120	ND ⁽⁴⁾	< 1 ⁽⁵⁾	A^{+}
Ethylbenzene	100-41-4	<750	<1000	<1500	>1500	ND ⁽⁴⁾	< 1 ⁽⁵⁾	A ⁺
2-butoxyethanol	111-76-2	<1000	<1500	<2000	>2000	ND ⁽⁴⁾	< 1 ⁽⁵⁾	A ⁺
Styrene	100-42-5	<250	<350	<500	>500	ND ⁽⁴⁾	< 1 ⁽⁵⁾	A ⁺
TVOC* ⁽³⁾	_	<1000	<1500	<2000	>2000	37.5	18.7	A ⁺

Table 1 Results of VOC Emission of target chemicals after 7 days

Note:

(1) Limited values were specified by client.

(2) Predicted concentration was calculated from the emission rate obtained from chamber concentration by model room (volume 30 m³, floor surface area 12 m², air exchange rate 0.5 h⁻¹) specified by client. (3) # = indicates aldehydes identified and quantified by DNPH derivatization and HPLC/DAD analysis.

* = TVOC means sum of the concentrations of all identified and unidentified VOCs between and including n-hexane through n-Hexadecane (i.e., C_6-C_{16}) as measured by the GC/MS TIC method and expressed as a toluene equivalent value.

(4) Detection limit of chamber concentration:

for # aldehydes = 5 μ g/m³; for other individual compound = 2 μ g/m³; for TVOC = 20 μ g/m³

ND = Not detected

(5) Reporting limit of predicted concentration:

for # aldehydes = 2.5 μ g/m³; for other individual compound = 1 μ g/m³; for TVOC = 5 μ g/m³



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Test photo:





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APPENDIX: SAMPLE RECEIVED PHOTO



REPORT AUTHORIZED

When signed with physical or electronic signature, the contents of this report have been prepared and approved per Intertek's quality process in accordance with ISO 17025.

C'n Sally Name: Sally Xie Evyn Cui Name 检验检测专用音the Project Engineer **Title: Reviewer**

Revision:

NO.	DATE	CHANGES	AUTHOR	REVIEWER
171212009SHF-BP-3	2018/1/24	First issue	Evyn Cui	Sally Xie
171212009SHF-BP-3-R1 2018/4		Added name 1 on Page 2 as per client's requirement	Evyn Cui	Sally Xie