



## Test Report

No.: GZ0909085388/CHEM

Date : SEP 27, 2009

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BEIJING GREAT FARAM WALL DECORATION MATERIALS LTD., CO.  
NO.22, YINGHAIDUAN, GUODAO 104, DAXING, BEIJING, CHINA. 100076

The following sample(s) was/were submitted and identified on behalf of the applicant as Aplomb/CARTESIO SERIES:  
VENEER/LAMINATE DESK TOP; SCREEN; PEDESTAL WITH 3 DRAWERS

SGS Job No. : GZHGR2009025706  
Tested sample information : Style/Item No.: Aplomb/ Cartesio: veneer/ laminate desk;  
P500/ NP30; screen; Box/ Inbox: pedestal  
Buyer : FARAM (CHINA) LIMITED  
Supplier : BEIJING GREAT FARAM WALL DECORATION MATERIALS LTD., CO.  
Manufacturer : BEIJING GREAT FARAM WALL DECORATION MATERIALS LTD., CO.  
Country of Origin : CHINA  
Country of Destination : EUROPE, USA, CHINA, THAILAND, JAPAN, KOREA, SINGAPORE,  
INDONESIA, MIDDLE EAST  
Date of Sample Received : SEP 14, 2009  
Testing Period : SEP 14, 2009 TO SEP 27, 2009

Test Requested : As specified by client, to determine the Volatile Organic Compounds (VOCs) Emissions.

Test Method : With reference to ANSI/BIFMA M 7.1-2007  
Testing was performed by Environmental Chamber (1m<sup>3</sup>), followed by sampling using Tenax-TA and DNPH tube, analysis using Thermodesorption System with Gas Chromatography Mass Spectrometry (TDS-GC/MS) and High Performance Liquid Chromatography-DAD (HPLC-DAD).

Test Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

Sunny Huang  
Lab Sr. Supervisor

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**Test Results:**

Description for specimen :

 (1) Emission Factors in 1m<sup>3</sup> chamber:

Compounds	Unit	Emission factor in 1 m <sup>3</sup> Chamber		
		72 <sup>nd</sup> hour	168 <sup>th</sup> hour	336 <sup>th</sup> hour
TVOC <sub>toluene</sub>	mg/(h·unit)	4.116	2.280	3.611x10 <sup>-3</sup>
Formaldehyde	mg/(h·unit)	0.051	0.041	3.788x10 <sup>-3</sup>
Total Aldehydes	mg/(h·unit)	0.176	0.127	3.609x10 <sup>-3</sup>
4-Phenylcyclohexene	mg/(h·unit)	ND	ND	ND

Remark: 1.ND=not detectable (&lt;MDL)

2.MDL= 0.002 mg/(h·unit)

## (2) Predicted Concentrations in the defined Typical Office Environment of a Single Office Workstation:

Compounds	Unit	Concentration		Limits of indoor air concentration	
		Office1	Office2	Systems Furniture	Seating
TVOC <sub>toluene</sub>	mg/m <sup>3</sup>	2.404x10 <sup>-4</sup>	1.041x10 <sup>-4</sup>	≤ 0.5	≤ 0.25
Formaldehyde	ppb	2.055x10 <sup>-1</sup>	8.895x10 <sup>-2</sup>	≤ 50	≤ 25
Total Aldehydes	ppb	5.874x10 <sup>-2</sup>	2.543x10 <sup>-2</sup>	≤ 100	≤ 50
4-Phenylcyclohexene	mg/m <sup>3</sup>	ND	ND	≤ 0.0065	≤ 0.00325

**Remark:**

- Office 1: Typical open plan office environment, its clean air ventilation rate Q<sub>0</sub> =15.02m<sup>3</sup>/h
- Office 2: Typical private office environment, its clean air ventilation rate Q<sub>0</sub>=34.7 m<sup>3</sup>/h
- Data at the 336<sup>th</sup> hour was used to calculate and compare with the emission limits.

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Specimen photo :



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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