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# ***Introduction for Testing Service***

*(According to the service requirements from OfficeMax )*

- Furniture
- Office Supply
- Technology
- Chemical Analysis

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## ● ***Furniture***

### ● **BIFMA Test for Office Chair**

- Back strength test—static
- Back strength test—static—type
- Base test - static
- Drop test - dynamic
- Swivel test—cyclic (120,000cycle)
- Tilt mechanism test—cyclic
- Seat durability test—cyclic
- Impact test (100,000 cycles)
- Front corner load-ease test (40,000 cycles)
- Stability test—dynamic
- Rear stability
- Front stability





## ● ***Furniture***

### ● **BIFMA Test for Office Chair**

- Arm strength test—vertical—static
- Arm strength test—horizontal—static
- Back durability test—cyclic—
- base durability test—cyclic (100,000 cycles)
- Leg strength test—front and side application
- Footrest durability test—vertical—cyclic (50,000 cycles)
- Arm durability test - cyclic (60000 cycles)
- Out stop tests for chairs with manually adjustable seat depth
- Tablet arm static load test
- Tablet arm load ease test – cyclic (100,000 cycles)





## ● ***Furniture***



### ● **Flamability Test: Cal TB 117**

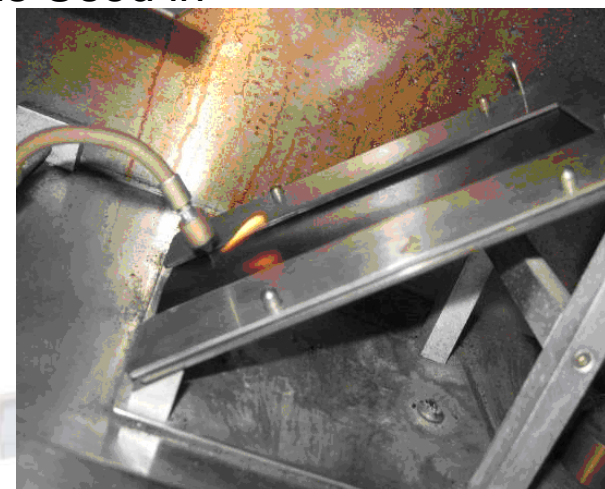
Requirements, Test Procedure and Apparatus for Testing the  
Flame Retardance of Resilient Filling Materials Used in  
Upholstered Furniture

SECTION A - Part I  
Resilient Cellular Materials

SECTION B - PART I  
Non-Man-Made Filling Materials

SECTION B - PART II  
Shredded and Loose Fill Materials/Feathers and Down

SECTION C  
Man-Made Fiber Filling Materials



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## ● ***Furniture***

### ● **Flammability Test: Cal TB 117**

SECTION D - PART I

Resilient Filling Materials - Cigarette Resistance

SECTION A - Part I

Resilient Cellular Materials

SECTION D - PART II

Resilient Cellular Materials  
- Smoldering Screening Test

SECTION E - PART I

Upholstery Fabrics



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## ● **Furniture**

### ● **CARB Certification Verification** (Developing)

**ASTM D 6007 – 02 Standard Test Method for Determining Formaldehyde Concentration in Air from Wood Products Using a Small Scale**

**BS EN 717-1:2004 Wood-based panels —Determination of formaldehyde release Part 1: Formaldehyde emission by the chamber method**

**ASTM D 5582 – 00 (Reapproved 2006) Standard Test Method for Determining Formaldehyde Levels from Wood Products Using a Desiccator**

**ASTM E 1333 – 96 (Reapproved 2002) Standard Test Method for Determining Formaldehyde Concentrations in Air and Emission Rates from Wood Products Using a Large Chamber**



## ● ***Furniture***

### ● **CARB Certification Verification** (Developing)

**BS EN 717-2:1995 Incorporating Corrigendum No. 1 Wood-based panels —Determination of Formaldehyde release —Part 2: Formaldehyde release by the gasanalysis method**

**EN 717-3 Wood-based panels Determination of formaldehyde releasePart 3: Formaldehyde release by the flask method**

**GB 18580-2001 室内装饰装修材料 人造板及其制品中甲醛释放限量**

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## • *Office supply*

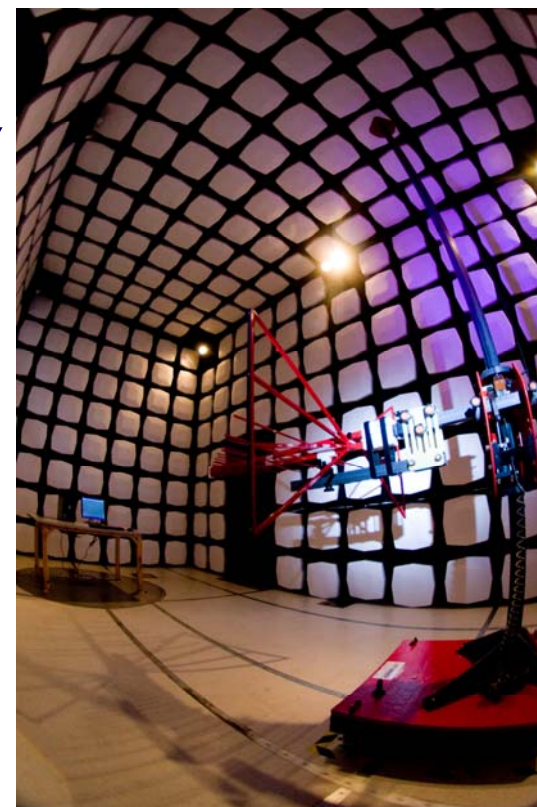
- **Writing Instruments tests**  
(ISO12757-1/ISO14145-1 write-out test);  
**LAHAMA Test**
- **High Temperature/Humidity Test**
- **Colorfastness**
- **TSCA certification testing as required**

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# ● ***Technology***

- **UL Certification Verification**
- **Noise Level Test**
- **Lighting Fixture Tests**
- **Capabilities of testing Electrical and Electronics Products (Audit Video, Battery/Power Supply, Office Equipment, Telecommunication, Information Technology Equipment)**



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# ● ***Chemical Analysis***

- a. **H.R.4040 (lead, Phthalates)**
- b. **FDA Concerned**
- c. **Heavy Metal Test**  
**(Arsenic, Mercury, Selenium,**  
**Antimony, Lead, Cadmium,**  
**Barium, Chromium)**
- d. **CPSC Requirements**



SIC Group



## ***Testing Capability***

- **STC can** conduct product testing to cover USA, Canada, Mexico, Australia and New Zealand legal requirements as the minimum. The majority of testing will be conducted in China; but OMX may conduct testing in the USA if needed.





# Lab accreditation

- STC accredited by ISO 17025 for Furniture sector and accredited by US CPSC for testing of Children's Product
- <http://www.cpsc.gov/cgi-bin/LabSearch/ViewLab.aspx?LabID=1064>



**香港標準及檢定中心**  
Hong Kong Standards and Testing Centre

Press Release For Immediate Release

**Three STC Laboratories Achieved CPSC Accreditation**

[05 Dec 2008, China] STC Group, an authoritative provider of impartial, professional testing and inspection services in China, has been honoured to be accredited testing laboratory by the US Consumer Product Safety Commission (CPSC) for three laboratories in Hong Kong, Dongguan and Guangzhou. CPSC accreditation illustrates that the laboratories have been accepted as accredited to provide third party product testing, which is required to provide a certification of compliance to safety rules of the Consumer Product Safety Improvement Act of 2008 (H.R. 4040).

Being a socially accountable and not-for-profit organization, STC has been striving for a safer and better living environment for the global community, especially for children and infants, by helping minimize risk of unsafe products to them. The accredited laboratories are strategically located in China to provide full scope of testing services, including toys and children's products, electrical products, chemicals and food, textiles and furniture etc. The Dongguan laboratory, STC's Mainland flagship, covering over 35,000m<sup>2</sup> site area, offers comprehensive technical support to manufacturers in the Pearl River Delta Region. Meanwhile, STC laboratories in Hong Kong and Guangzhou, both situated in the business hubs of China, work closely with buyers, exporters and importers from all over the world. Together with an extensive network in Shanghai, Shenzhen, Beijing and other cities in the Mainland, STC quality service is accessible throughout China and becomes one of the trusted partners of the industries.

Dr. Richard Fung, Chief Executive of STC, said, "CPSC accreditation demonstrates our professional testing service and dedication to product quality and safety. With solid experience, our accredited labs can provide manufacturers with reliable, accurate and efficient services. In line with the economic and social development of global market places, STC will continue to improve its quality control and service standards to meet with the increasing demand on product safety and consumer interests."

**About STC Group**  
STC Group's subsidiary Hong Kong Standards and Testing Centre, founded in 1963, is the first independent, not-for-profit testing, inspection and certification organization in Hong Kong. It has served industries with impartiality, reliability and professionalism in all of its services. Throughout the history, STC has tirelessly contributed to the transformation of industries by providing a comprehensive one-stop conformity assessment service, so as to ensure their products are in compliance with corresponding technical and safety requirements. In response to industrial development in Mainland China, STC Group establishes the "STC (Dongguan) Company Limited" in Dongguan, Guangdong province, to serve the manufacturers in nearby regions. Together with the existing network in Shanghai, Guangzhou, Shenzhen, Beijing and other cities in Mainland, STC's service is made further accessible throughout China. To learn more about STC, please visit [www.stc-group.org](http://www.stc-group.org).

**东莞标检产品检测有限公司**  
STC (Dongguan) Company Limited

**CONSUMER PRODUCT SAFETY IMPROVEMENT ACT**

The Consumer Product Safety Improvement Act of 2008 was legislated on 14 August 2008 regulating the manufacturing and testing of imported consumer goods in the US. It requires product testing to be conducted by accredited third party laboratories that are registered with the CPSC for specific testing. Both Hong Kong Standards and Testing Centre and STC (Dongguan) Company Ltd are recognized by CPSC as third-party laboratories to conduct tests, including lead content in paint per 16 CFR 1303, pacifiers per 16 CFR 1511 and small parts per 16 CFR 1501.

STC (Dongguan) Company Ltd  
We are an independent, not-for-profit testing, inspection and certification organization in China. We have been recognized by a number of national and international organizations which include CNAS in China, GAR in Germany, Govmark in the US, and have been granted the China Metrology Accreditation (CMA) Certificate as well. Our Electromagnetic Compatibility Laboratory has also achieved the accreditation of FCC and IC in the US and Canada respectively.

**Hong Kong Standards and Testing Centre**  
10, Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong  
Tel: (852) 2664 3888  
Fax: (852) 2664 4353  
Email: [hstc@hstc.org](mailto:hstc@hstc.org)  
Website: [www.stc-group.org](http://www.stc-group.org)

**STC (Dongguan) Company Limited**  
Unit 1, 68 Fumin Nan Road, Dalang, Dongguan, Guangdong, China  
STC customer services hotline: 400-886-8338  
Tel: (769) 8111 9888  
Fax: (769) 8111 6222  
Email: [dgstc@dgstc.org](mailto:dgstc@dgstc.org)  
[www.dgstc.org](http://www.dgstc.org)

One Testing Protocol Worldwide Access

STC Group



## ***Lead Time***

- **For flammability and normal chemical test:**
- 5 working days for regular service
- 3 working days for regular service
- 24 hours for urgent service
- **For furniture testing, must be longer because of the net time would be long.**



# ***Communication Expectations***

**We would like to designate a single point of contact for routine communications.**

**Responses to requests are in a timely manner, within one business day, for urgent matters within two hours.**

**Continuous updates to China Quality and Engineering teams on all relevant issues as well as present solutions to potential challenges and opportunities.**



# ***Knowledge and Expertise Support***

## Product Protocol Guidance:

Lab to demonstrate how comments and suggestions are provided when there is testing or protocol issues.

## Regulatory Guidance:

Lab to provide regulatory guidance when there is new regulation introduced or when OfficeMax develops a new product and needs guidance on all/any regulation in relation to the new product category.

## International Testing Guideline and Review:

Lab to provide comments and suggestion on their services in the case where OMX plan to introduce products to countries outside primary 5 countries.

We would like to do accordingly!





# ***System Capabilities (Tracking/Reporting)***

**Vision:** To become a leading conformity assessment service provider that is recognized and respected worldwide.

**Mission** :To serve the community, including manufacturers, consumers & the Government, constantly improving product quality and safety standards.

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# ***Management Summary***

- Independent, registered non-profit organization
- Nearly 50 years of experience in product testing, inspection and certification
- Comprehensive scope of services
- Familiar with both local and international business culture
- Customer-oriented, serving industry, caring community
- Income / surplus re-invested in Group's development, serving the global community
- Worldwide recognition and network



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***THANK YOU !***



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