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# UL GREENGUARD 绿色卫士认证

为您营造健康清新的室内空气环境  
室内产品化学污染物低释放认证

UL GREENGUARD Certification Program  
Demonstrating products support healthy indoor air  
Low-emitting indoor product certification











## Empowering Trust™

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## UL GREENGUARD绿色卫士认证

(以下简称GREENGUARD认证)

## UL GREENGUARD Certification Program

(Hereinafter referred to as: GREENGUARD)







## 概览

GREENGUARD 认证 - 通过对产品进行化学污染物低释放认证, 改善室内空气质量。

### 为何室内空气质量如此重要？

无论是在家里、学校、企业或医院, 人们都期望他们的室内环境能够更加健康安全。不幸的是, 室内空间往往充斥着各种潜在有害的污染物, 这些物质被称为挥发性有机化合物 (VOC)。VOC 是一类从日常用品释放到空气中的化学物质, 如建筑材料、家具、地板和清洁剂, 甚至电子电器产品等, 一旦释放到空气中, 居住者每次呼吸都会吸入 VOC, 从而引起一系列潜在健康问题。

### GREENGUARD 认证意味着什么？

带有 GREENGUARD 认证标识的产品, 通过对具代表性的样品进行独立测试和认证, 表明其符合 UL 最严格的第三方 GREENGUARD 认证标准。GREENGUARD 认证标准是基于 CDPH、美国环保署 (EPA) 和其它知名公共健康机构建立的释放标准。

GREENGUARD 认证已被广泛采用为值得信赖的化学污染物低释放产品标准。事实上, 超过 400 个绿色建筑规范, 标准, 准则、采购政策和评级系统认可或参考 GREENGUARD 认证产品。要确认持续的化学污染物低释性能, GREENGUARD 认证产品的关键组件需要定期接受合规性测试。

## Overview

Interior products have a significant impact on indoor air quality, and can emit hundreds of chemicals into the air that building occupants breathe. GREENGUARD Certification helps ensure compliance that products are low-emitting, and contribute to healthier interiors.

Representative samples of products that have achieved GREENGUARD Certification have been tested and certified to meet some of the world's most rigorous, third party chemical emissions standards—helping reduce indoor air pollution and the risk of chemical exposure while aiding in the creation of healthier indoor environments.

GREENGUARD Certification has been widely adopted as a trusted standard for low-emitting products. In fact, more than 400 green building codes, standards, guidelines, procurements policies, and rating systems recognize or reference GREENGUARD Certified products. GREENGUARD Certified products are required to undergo regular compliance testing on critical components.



## 认证产品种类 Scope

所有室内产品, 包括:

-  家具 · furniture
  -  地材 · flooring
  -  遮阳系统 · window treatment
  -  表面材料 · surfacing materials
  -  涂料 · paint
  -  建筑材料 · building materials
  -  门 / 木制品 · doors
  -  床垫 / 卧具 · mattress
  -  橱柜 · cabinet
  -  天花板系统 · ceiling systems
  -  胶粘剂 / 密封剂 · adhesives
  -  儿童产品 · children product
  -  电子电器 · Electronic appliances
- 等二十多个种类。



## 认证分类 Classify

### 单品认证

Single Product certification

简单地说就是单一产品认证, 指客户单一的一种产品经过认证检测, 验证产品达到标准要求后, 使该产品获得认证, 仅该产品可以使用 GREENGUARD 认证标志。

Single Product Certification means that if a single product passes the test and meet the strictest standard, only this product can use the GREENGUARD Mark.



### 全系列产品认证

All Products Certification

即全线产品认证, 是指通过科学的实验设计和测试, 来验证客户生产的全线产品, 一旦通过验证, 客户生产的全线或全系列产品都可以获得认证。也就是一个认证可以涵盖全部产品。

All Products Certification covers all kinds of products.







## 获取GREENGUARD证书有哪些益处:

### GREENGUARD 认证可提供诸多优势:

- 为建筑师、设计师、规范制定者及其它采购商建立产品能够降低室内污染物暴露水平影响的信心
- 使制造商的产品在市场上脱颖而出
- 展现制造商对产品用户健康及福利的重视
- 由于 GREENGUARD 认证产品得到全球 400 多个绿色建筑项目、规范、标准和公司机构采购规范的认可和引用，因此能为您提高市场知名度



此外，所有 GREENGUARD 认证产品都列在一个公开的免费在线绿色产品数据库 [spot.ul.com](http://spot.ul.com) 中，帮助建筑师、设计师、规范制定者、建造商和消费者找到带来健康室内环境的产品。用户可通过制造商、认证标准和评分体系等方式查找理想产品。

### GREENGUARD Advantages:

UL GREENGUARD Certification delivers comprehensive value to help you gain a competitive edge and win in the marketplace.

GREENGUARD Certification provides a competitive advantage in an increasingly muddled green marketplace by serving as a health-based differentiator. Here are 10 reasons why GREENGUARD Certification delivers this compelling value better than the alternatives.

- 1 Top Recognition**  
UL Mark is trusted and accepted by 88% of U.S. Built Environment Authorities. Additionally, 66% of U.S. retailers express a preference for the UL Mark over other TIC marks.
- 2 High Acceptance**  
GREENGUARD Certified products are recognized, referenced or preferred by more than 450 federal purchasers, retailers, green building rating tools, and building codes around the world. UL's public affairs and outreach teams are dedicated to enhancing market adoptions, setting us apart as a true partner.
- 3 Reputation Management**  
UL and our services are backed by UL's long time legacy of trust since the founding year of 1894. We are truly committed to enhancing safe living and working environments for people worldwide.
- 4 Stringent Standards**  
GREENGUARD Certified products meet stringent chemical emissions requirements, such as being screened for more than 10,000 volatile organic compounds (VOCs). Products undergo routine monitoring and annual testing to maintain certification. The sound science, robust certification requirements, and third-party status that back the GREENGUARD Certification program differentiate certified products in the marketplace.
- 5 Health Impact**  
People spend 90% of their time indoors\*, where air pollution levels are 2 to 5 times higher than those found outdoors\*. The largest source of this pollution is volatile organic compound (VOC) emissions from building materials and furnishings. GREENGUARD Certification helps ensure compliance that products are low-emitting, and contribute to healthier indoor environment.
- 6 Comprehensive Suite of Services**  
In addition to GREENGUARD Certification, UL offers product emissions testing, UL ECOLOGO® Certification for multiattribute product sustainability, single attribute environmental claims validations, waste to landfill validation, Environmental Product Declarations, organizational sustainability certifications, and advisory/consulting services. This extensive portfolio allows us to help you tell your sustainability story in all the ways that are meaningful to you and your customers.
- 7 Greater Timeline Predictability**  
We are investing in additional staff and infrastructure resources to make the process easier, faster, and more predictable so you can build GREENGUARD certification into your new product launch timelines.
- 8 Cost Efficiencies**  
Maintaining ecolabels from multiple certifiers is costly, and potential harm to your brand's reputation from misuse of environmental claims is even more costly. The new GREENGUARD Mark is the only mark you need and can assist with avoiding greenwashing.
- 9 Robust Customer Support**  
From educational outreach to specifiers, building owners and facility managers, to training programs for your sales staff, to integrated marketing communications initiatives, UL provides a robust support team dedicated to maintaining and increasing the value of GREENGUARD Certification.
- 10 Environmental Leadership**  
GREENGUARD Certification is recognized and referenced in more than 400 building programs, standards and specifications around the world.

\* EPA "The Inside Story: A Guide to Indoor Air Quality," 2009.

**66%** of U.S. retailers express a preference for the UL Mark over other TIC marks.

相较于其他 TIC 标志，**66%** 的美国零售商表示更倾向于 UL 标志。





## 认证级别 Certification Types

GREENGUARD 认证标准是国际认可的一项自愿标准，为室内低释放产品建立相关要求，如建材、装潢、家具、清洁用品和电子设备等。释放标准因产品配方和用途而有所不同。这些标准由 UL 环保服务维护，并被纳入由美国环境保护署 (EPA)、加州及其它知名公共健康机构建立的健康释放标准。

该标准根据当前公布的所有个体化学阈值 (TLV) 或慢性暴露参考水平 (CREL)，鉴定总挥发性有机化合物 (TVOC)、甲醛、总醛。此外，GREENGUARD 还根据重大的政府及监管项目列出的致癌物质和生殖毒素对所有产品进行筛查。

GREENGUARD Certification is an internationally recognized product emissions certification and labeling program for manufacturers of low-emitting indoor products, furnishings and materials. Products can be certified under two different standards: GREENGUARD Certification and GREENGUARD Gold Certification.



### GREENGUARD 认证分成两个级别：

- GREENGUARD 认证级
- GREENGUARD 金级认证

目前，超过 900 家制造商自愿参与 GREENGUARD 认证，认证产品总数超过 5 万种。

### GREENGUARD Certification is divided into two levels:

- GREENGUARD Certification
- GREENGUARD Gold Certification

To date, more than 900 manufacturers have volunteered to participate in GREENGUARD Certification, with a total of more than 50,000 certified products.





## GREENGUARD认证级 GREENGUARD Certification



- GREENGUARD 认证级是北美第一个自愿性室内空气质量认证，专门为商业建筑产品开发。这一认证要求产品满足严苛的化学释放要求，包括 360 多种 VOC，以及对总化学释放量的限制。符合限值的商用家具产品也表示符合 BIFMA X7.1 以及 BIFMA e3 credit 7.6.1 标准要求。
- 通过对建筑材料、表面处理材料、室内陈设、家具、清洁产品以及电子设备中挥发性有机化合物 (VOCs)、甲醛等排放量的检测，来确定这些产品是否对室内空气造成污染。对产品的化学物质和颗粒物排放量的测定采用“动态环境模拟舱测定和评估化学排放量的标准方法”在模拟实际产品用途的检测条件下进行。获得该认证的产品不会对室内空气产生污染，并在 UL SPOT 绿色产品数据库中展示。



- GREENGUARD Certification is the first voluntary North American product emissions certification created specifically for commercial building products. This certification verifies that products meet stringent chemical emission limits originally developed as purchasing specifications for commercial building products for the U.S. Environmental Protection Agency (EPA) the State of Washington. GREENGUARD Certified products are compliant with stringent emission levels for over 360 VOCs, plus a limit on the total of all chemical emissions combined (TVOC). Furniture products that are GREENGUARD Certified are also compliant with the BIFMA X7.1 standard.
- GREENGUARD Certification Program tests building materials, furnishings, furniture, etc. for chemical emissions (VOCs, formaldehyde, etc.) by applying Dynamic Environmental Chambers. GREENGUARD certified products can be searched in SPOT (the UL sustainable product database) and will not pollute indoor air quality.

### 认证标准 Certification Standard

适用于所有产品 (Applicable to All Products)		
类别 (Parameter)	限值 (Full Levels) (适用于建筑材料和表面处理材料、木质表面处理材料、工作台面、台柜、视觉显示产品和陈设组合办公家具、木制家具系统和可移动墙壁) (Applicable for Building Construction Materials and finishes, Wood Finishes, Countertops, Casework, Visual Display Products, and Furniture Workstations, Casegood Systems and Movable Walls)	限值 (Full Levels) (适用于 OEM 材料、床垫和卧具、座椅、单独的木制家具、桌子、组合办公家具组件、架子和儿童家具) (Applicable for OEM Materials, Mattresses and Bedding, Seating, Individual Casegoods, Tables, Workstation Components, Shelving, and Children's Furniture)
单个挥发性有机化合物 Individual VOCs	≤ 1/10 TLV	≤ 1/10 TLV
总挥发性有机化合物(TVOC) Total VOCs(TVOC)	≤ 0.5 mg/m <sup>3</sup>	≤ 0.25 mg/m <sup>3</sup>
甲醛Formaldehyde	≤ 0.05 ppm	≤ 0.025 ppm
总醛 Total Aldehydes	≤ 0.1 ppm	≤ 0.05 ppm
必须提供按加州65提案、美国国家毒理学规划处(NTP)和国际癌症研究机构(IARC)规定的所测致癌物和生殖毒素列表。 Listing of measured carcinogens and reproductive toxins as identified by California Proposition 65, the U.S. National Toxicology Program (NTP), and the International Agency on Research on Cancer (IARC) must be provided.		
仅适用于特定产品 (Applicable to Specific Products Only)		
4-苯基环己烯 Phenylcyclohexene	≤ 0.0065 mg/m <sup>3</sup>	≤ 0.0033 mg/m <sup>3</sup>
可吸入颗粒物 Respirable Particles	≤ 0.05 mg/m <sup>3</sup>	≤ 0.025 mg/m <sup>3</sup>



## GREENGUARD金级认证 GREENGUARD Gold Certification



- GREENGUARD 金级基于公共健康机构的关键指标。这一认证对 360 多种化学物设立了世界上严苛的释放限额。认证的建筑材料产品符合 CDPH 1.2(California 01350, 商用家具产品符合 BIFMA X7.1 和 BIFMA e3 credits 7.6.1, 7.6.2, 7.6.3。
- 通过对建筑材料、家具产品以及装饰材料中有机化合物 (VOCs)、甲醛、邻苯二甲酸类和可吸入颗粒物等各种化学物质的排放, 来判定这些材料和产品是否符合敏感个体 (如儿童和老人) 的安全因素, 以及帮助产品在学校和医疗机构等环境中安全使用。作为 GREENGUARD 认证级服务的扩展, GREENGUARD 金级认证提供了更为严格的认证标准。
- GREENGUARD Gold Certification includes safety factors to account for sensitive individuals (such as children and the elderly) and helps demonstrate that a product is acceptable for use in environments such as schools and healthcare facilities. In addition to limiting emissions of over 360 VOCs and total chemical emissions, GREENGUARD Gold Certified products must also comply with requirements of the State of California's Department of Public Health "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1 (2010)" (also known as California Section 01350).

## 认证标准 Certification Standard

类别 Parameter	限值 Full levels
单个挥发性有机化合物 Individual VOCs	$\leq 1/100$ TLV and $\leq 1/2$ CA chronic REL (Office Seating: $\leq 1/100$ TLV and $\leq 1/4$ CA chronic REL)
总挥发性有机化合物 Total VOCs	$\leq 0.22$ mg/m <sup>3</sup>
甲醛 Formaldehyde	$\leq 0.0073$ ppm/7.3 ppb (Office Seating: $\leq 0.00365$ ppm/3.65 ppb)
总醛 Total Aldehydes	$\leq 0.043$ ppm/43 ppb
1-甲基-2-吡咯烷酮 1-Methyl-2- pyrrolidinone	$\leq 0.16$ mg/m <sup>3</sup> (Office Seating: $\leq 0.08$ mg/m <sup>3</sup> )





 **认证流程和周期**  
Certification Process

序号 Number	流程 Process	时间 Time	备注 Note
1	产品信息采集及认证 Collect information of product and confirm the program	2周 2 weeks	填写生产商问卷表，确定认证方案 Fill out the manufacturer questionnaire and get the price estimate.
2	工厂审核 Manufacturer Review	1-2天 1-2 days	对制造商使用的原材料及其生产工艺等进行审核 The review focuses on productive technology and raw materials.
3	筛选检测 Profile Test	3-4周 3-4 weeks	选择代表性产品的组件或原材料进行评估、检测 Select components or raw materials for test
4	认证检测 Certification Test	3-4周 3-4 weeks	根据筛选检测的结果制作代表性的成品进行最终认证检测 Select the representative sample for certification test
5	颁发证书 Issue certificate	1-2周 1-2 weeks	对测试合格的产品授予证书及授权使用 GREENGUARD 标志 Issue certificate and authorize use of GREENGUARD Mark
6	季度检测与年度检测 Annual re-certification and quarterly quality monitoring test		获得证书后每年或部分产品每季度需按照 GREENGUARD 标准进行相应检测 Undergo both annual re- certification and quarterly quality monitoring test to maintain this elite credential







## 检测项目 Testing Program

### 产品检测 Testing

通过对室内产品、建筑材料进行挥发性污染物的检测，出具检测报告，列明污染物的种类及含量，证明该产品是否为达到 GREENGUARD 认证级标准的环保产品。

The test for interior products, building materials is Using Dynamic Environmental Chambers to test volatile organic compounds. This test may be performed on a product to see if it can meet the standard or to obtain a test report.



### 检测方法

GREENGUARD 遵循美国材料与试验学会 (ASTM) 中 D5116 (小型环境室内装修材料 / 产品有机物排放量测定的标准导则) 和 D6670 (室内材料 / 产品排放的挥发性有机物质的全室测定的标准实施规程) 标准、美国环保署 (EPA) 家具检测协议、华盛顿州室内装饰和建材协议、德国蓝天使项目和加州公共卫生服务部 (CDPH) 规范标准操作第 01350 节和 ISO 16000 环境检测系列的指导原则。

GREENGUARD 采用全球先进的“动态环境模拟舱”检测技术，来测定产品的化学物质和颗粒物排放量。

GREENGUARD 将产品放入一个封闭的标准动态环境实验舱中，该实验舱是模拟产品实际用途和真实的室内环境建立的，这是一个可控的理想化室内环境空间。为了确保实验的准确性，我们会向实验舱补充洁净的空气，并考虑产品甲醛和其他挥发性有机化合物 (VOC) 释放的各种因素 (温度、湿度、空气流速和空气交换率) 和过程，从而测定舱内空气中的甲醛、TVOC 浓度 (mg/m<sup>3</sup>)，并推算出排放量 [(mg/m<sup>2</sup>.h) 或 mg/(m<sup>2</sup>. 件)]。



### Testing methods

The methods, and others used by the GREENGUARD Certification programs, follow guidance of ASTM Standards D5116 and D6670, the U.S. Environmental Protection Agency's (EPA) testing protocol for furniture, the state of Washington's protocol for interior furnishings and construction materials, Germany's Blue Angel programs, California's Department of Public Health Services (CDPH) Standard Practice for Specification Section 01350 and the ISO 16000 environmental testing series.

Products are tested in dynamic environmental chambers where air flow is modeled to simulate actual product use. Measurements for chemical and particle emissions are taken at intervals during testing. Most building materials and furnishings are required to meet allowable emission levels within 7 to 14 days of installation. And we test formaldehyde and TVOC and calculation emissions.





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## SPOT绿色产品数据库 Sustainable Products Database

- 所有经过 GREENGUARD 认证的产品都列在免费的在线绿色产品数据库 SPOT 中。
- UL SPOT 是一个值得信赖的绿色产品信息平台，能够为建筑师或专业采购提供从产品的环保属性、功能性、安全性甚至厂家技术规格等综合属性信息，从而大大提高找寻绿色产品的效率并最终转换成公司效益。
- SPOT 是全球通用的、全面、严格的低挥发产品和绿色建材数据库，为全球致力于绿色建筑和环保事业的用户提供了材料使用指南。
- SPOT 目前覆盖超过 130,000 种产品，使用者可以通过标准格式编号、制造商、认证类别（例如，GREENGUARD 认证，GREENGUARD 家庭认证）或绿色评分系统（例如 LEED，BREEAM，WELL，Fitwel，CALGreen Code，ASHRAE 189.1 等）来搜索这些产品。
- 来自全球超过 15 万的建筑师、开发商、业主访问 SPOT 绿色产品数据库。

## SPOT connects Purchasers with the most credible product information



**SPOT is now more than 130,000 product families strong!**

Join SPOT. It's free!

Create account

Register for a free account at: [spot.ul.com](https://spot.ul.com)

## Related services and resources

Learn about exposure methods, common VOCs and tips to improve indoor air quality.



- All GREENGUARD certified products are featured in SPOT.
- UL SPOT is a trusted sustainable product database that can provide architectural designers or professional procurement with comprehensive attribute information from product environmental protection attributes, functionality, safety, and even manufacturer technical specifications, thereby greatly improving the efficiency of finding sustainable products and ultimately transformed into company benefits.
- SPOT is by far the world's largest sustainable product database, and the most comprehensive and rigorous database of low-emitting products and green building materials. It provides material usage guidelines for users who are committed to green construction and environmental protection.
- SPOT currently covers more than 130,000 products, and users can search for these products through standard format: numbers, manufacturers, certification categories (such as GREENGUARD Certification, GREENGUARD Certification for Homes) or Rating Systems/Sustainable Credits (such as LEED, BREEAM, WELL, Fitwel, CALGreen Code, ASHRAE 189.1 and more).
- So far, more than 150,000 unique visitors from around the world, including renowned architects, developers and owners, visit SPOT.
- SPOT is the only sustainable product database linked by the GSA and DOD.



## GREENGUARD认证认可机构和组织 GREENGUARD Recognition



GREENGUARD 认证在全球 400 多个建筑计划，标准和规范中得到认可和引用，包括 WELL, fitwel®, LEED®, CHPS, ASHRAE, Green Globes, NAHB, IgCC 等。

UL 将继续扩大 GREENGUARD 认证的影响力。

GREENGUARD 标志可凭借 UL 值得信赖的声誉 (UL 标志得到了美国 88% 的建筑环境监管机构的认可。相较于其他 TIC 标志，66% 的美国零售商表示更倾向于 UL 标志 )。

GREENGUARD Certification is recognized and referenced in more than 400 building programs, standards and specifications around the world, including WELL, fitwel®, LEED®, CHPS, ASHRAE, Green Globes, NAHB, IgCC, and more.

UL continues to add programs.

The GREENGUARD mark leverages the trusted reputation of UL (UL Mark is trusted and accepted by 88% of U.S. Built Environment Authorities. 66% of U.S. retailers express a preference for the UL Mark over other TIC marks.)



US Department of Defense



Singapore BCA Green Mark



State of California



ASHRAE 189.1







GREENGUARD金级认证 / GREENGUARD Gold	
<p><b>LEED v4 建筑设计与施工</b> <b>LEED v4 BD&amp;C</b></p>	<p>LEED v4 BD&amp;C 低挥发材料 油漆和涂料 LEED v4 BD&amp;C 低挥发材料 胶粘剂 LEED v4 BD&amp;C 低挥发材料 地板 LEED v4 BD&amp;C 低挥发材料 墙壁系统 LEED v4 BD&amp;C 低挥发材料 天花板系统 LEED v4 BD&amp;C 低挥发材料 绝缘材料 LEED v4 BD&amp;C 低挥发材料 家具</p> <p>LEED v4 BD&amp;C Low-Emitting Materials Paints and Coatings LEED v4 BD&amp;C Low-Emitting Materials Adhesives LEED v4 BD&amp;C Low-Emitting Materials Flooring LEED v4 BD&amp;C Low-Emitting Materials Wall Systems LEED v4 BD&amp;C Low-Emitting Materials Ceiling Systems LEED v4 BD&amp;C Low-Emitting Materials Insulation LEED v4 BD&amp;C Low-Emitting Materials Furniture</p>
<p><b>LEED v4 室内设计与施工</b> <b>LEED v4 ID&amp;C</b></p>	<p>LEED v4 ID&amp;C 低挥发材料 油漆和涂料 LEED v4 ID&amp;C 低挥发材料 胶粘剂 LEED v4 ID&amp;C 低挥发材料 地板 LEED v4 ID&amp;C 低挥发材料 墙壁系统 LEED v4 ID&amp;C 低挥发材料 天花板系统 LEED v4.1 BD&amp;C 低挥发材料 绝缘材料 LEED v4.1 BD&amp;C 低挥发材料 家具</p> <p>LEED v4 ID&amp;C Low-Emitting Materials Paints and Coatings LEED v4 ID&amp;C Low-Emitting Materials Adhesives LEED v4 ID&amp;C Low-Emitting Materials Flooring LEED v4 ID&amp;C Low-Emitting Materials Wall Systems LEED v4 ID&amp;C Low-Emitting Materials Ceiling Systems LEED v4 ID&amp;C Low-Emitting Materials Insulation LEED v4 ID&amp;C Low-Emitting Materials Furniture</p>

<p><b>LEED v4.1 建筑设计与施工</b> <b>LEED v4.1 BD&amp;C</b></p>	<p>LEED v4.1 ID&amp;C 低挥发材料 油漆和涂料 LEED v4.1 ID&amp;C 低挥发材料 胶粘剂 LEED v4.1 ID&amp;C 低挥发材料 地板 LEED v4.1 ID&amp;C 低挥发材料 墙壁系统 LEED v4.1 ID&amp;C 低挥发材料 天花板系统 LEED v4.1 ID&amp;C 低挥发材料 绝缘材料 LEED v4.1 ID&amp;C 低挥发材料 家具</p> <p>LEED v4.1 ID&amp;C Low-Emitting Materials Paints and Coatings LEED v4.1 ID&amp;C Low-Emitting Materials Adhesives LEED v4.1 ID&amp;C Low-Emitting Materials Flooring LEED v4.1 ID&amp;C Low-Emitting Materials Wall Systems LEED v4.1 ID&amp;C Low-Emitting Materials Ceiling Systems LEED v4.1 ID&amp;C Low-Emitting Materials Insulation LEED v4.1 ID&amp;C Low-Emitting Materials Furniture</p>
<p><b>LEED v4.1 运营与维护</b> <b>LEED v4.1 O&amp;M</b></p>	<p>LEED v4.1 O&amp;M 采购 选项 2 油漆和涂料 LEED v4.1 O&amp;M 采购 选项 2 胶粘剂 LEED v4.1 O&amp;M 采购 选项 2 地板 LEED v4.1 O&amp;M 采购 选项 2 墙壁系统 LEED v4.1 O&amp;M 采购 选项 2 天花板系统 LEED v4.1 O&amp;M 采购 选项 2 绝缘材料 LEED v4.1 O&amp;M 采购 选项 2 家具</p> <p>LEED v4.1 O&amp;M Purchasing Option 2 Paints and Coatings LEED v4.1 O&amp;M Purchasing Option 2 Adhesives LEED v4.1 O&amp;M Purchasing Option 2 Flooring LEED v4.1 O&amp;M Purchasing Option 2 Wall Systems LEED v4.1 O&amp;M Purchasing Option 2 Ceiling Systems LEED v4.1 O&amp;M Purchasing Option 2 Insulation LEED v4.1 O&amp;M Purchasing Option 2 Furniture</p>
GREENGUARD认证级 / GREENGUARD	
<p><b>LEED v4 / v4.1 建筑设计与施工 / 室内设计与施工 / 运营与维护</b> <b>LEED v4 / v4.1 BD&amp;C / ID&amp;C / O&amp;M</b></p>	<p>LEED v4 BD&amp;C 低挥发材料 家具 LEED v4.1 BD&amp;C 低挥发材料 家具 LEED v4 ID&amp;C 低挥发材料 家具 LEED v4.1 ID&amp;C 低挥发材料 家具 LEED v4.1 O&amp;M 采购 选项 2 家具</p> <p>LEED v4 BD&amp;C Low-Emitting Materials Furniture LEED v4.1 BD&amp;C Low-Emitting Materials Furniture LEED v4 ID&amp;C Low-Emitting Materials Furniture LEED v4.1 ID&amp;C Low-Emitting Materials Furniture LEED v4.1 O&amp;M Purchasing Option 2 Furniture</p>





## GREENGUARD认证与健康建筑 GREENGUARD and Healthy Building



- 6.3 根据工作场所标准采用并实施室内空气质量政策，要求永久安装低逸散产品和家具，GREENGUARD 金级认证是公认的认可方式
- 6.4 采用并实施以绿色清洁产品为重点的绿色采购政策，UL ECOLOGO® 是认可方式之一
- 6.3 Adopt and Implement an Indoor Air Quality Policy for the Workplace criteria requires low-emitting permanently installed products and furniture and GREENGUARD Gold is the first compliance pathway recognized
- 6.4 Adopt and implement a Green Purchasing Policy focuses on green cleaning products and UL ECOLOGO® Certification is one of the first compliance pathways recognized



## WELL V2 (试用)



### X11长期逸散控制

- 第一部分—家具的逸散：GREENGUARD 金级认证能证明符合
- 第二部分—地板和隔热层：GREENGUARD 金级认证能证明符合

### X12 短期逸散控制

- 第一部分—胶粘剂和油漆 VOC 逸散：GREENGUARD 金级认证能证明符合
- 第二部分—胶粘剂和油漆 VOC 含量：GREENGUARD 金级认证能证明符合

### X14 材料透明度

成分透明度低至 1000ppm；Product Lens™ Certification 能证明符合

### X09 清洁产品和规范 | 优化条件 (最高: 2 分)

第一部分—致癌、致突变、重毒性物质最小化、皮肤和呼吸刺激最小化和系统性毒性 / 器官效应；部分 UL ECOLOGO® Certification 标准能证明符合

## WELL v2 (Pilot)

### X11 Long-Term Emission Control

Part 1—Furniture Emissions: GREENGUARD Gold shows compliance  
Part 2—Flooring and Insulation: GREENGUARD Gold shows compliance

### X12 Short-Term Emission Control

Part 1 – Adhesives & Paints emissions: GREENGUARD Gold shows compliance  
Part 2 – Adhesives & Paints content: UL ECOLOGO® Certification shows compliance

### X14 Material Transparency


Ingredient transparency down to 1000ppm; Product Lens™ Certification shows compliance


### X09 Cleaning Products and Protocol

Part 1— carcinogenic, mutagenic, reprotoxic substance minimization, skin and respiratory irritation minimization and systemic toxicity/organ effects; some UL ECOLOGO® standards show compliance



亚太代表企业 Asia Pacific Representative Companies


 A&A Green Phoenix Group Joint Stock Company


 Datumstruct (CFS) Pte Ltd


 广东嘉宝莉科技材料有限公司  
Guangdong Carpoly Technology Materials Co., Ltd.


 三棵树涂料股份有限公司  
SKSHU PAINT CO.,LTD


 阿克苏诺贝尔太古涂料（上海）有限公司  
Akzo Nobel Swire Paints (Shanghai) Ltd

 东莞美时家具有限公司  
Dongguan Lamex Furniture Co. Ltd

 科顺防水科技股份有限公司  
KESHUN WATERPROOF TECHNOLOGY CO.,LTD

 浙江圣奥家具制造有限公司  
Zhejiang Sunon Furniture Manufacture Co., Ltd

 震旦（中国）有限公司  
Aurora (China) Co., Ltd

 东莞兆生家具有限公司  
Dongguan zhaosheng furniture industrial co ltd-GG

 美巢集团  
Maco Group Corporation


 深圳长江家具有限公司  
Shenzhen Changjiang Furniture Co., Ltd

 Armacell Asia Pte Ltd

 Ekowood Malaysia Sdn. Bhd


 Merryfair Chair System Sdn Bhd

 越南翔鸽涂料有限公司  
Shyange Paint VietNam CO.,LTD.


 北京金隅天坛家具股份有限公司  
Beijing jinyu tiantan Furniture Co.,Ltd.

 广东华润涂料有限公司  
Guangdong Huarun Paints Co.,Ltd

 诺梵（上海）系统科技股份有限公司  
Novah (Shanghai) System Technology Corp., Ltd

 SCG Ceramics Public Company Limited


 Benel Singapore Pte Ltd (SINGAPORE)

 广东巴德士化工有限公司  
Guangdong Bardese Chemical Co.,Ltd

 立邦涂料（中国）有限公司  
Nippon Paint (CHINA) Co., Ltd

 Vanachai Group Public Company limited


 Benithem Sdn. Bhd.

 广州百利文仪实业有限公司  
Guangzhou Victory Industry Co., Ltd


 来威利国际贸易（上海）有限公司  
Novalis International (Shanghai) Ltd.

 永记造漆工业股份有限公司（中国台湾）  
YUNG CHI PAINT & VARNISH MFG CO.,LTD (TAIWAN)

 CASABLANCA VIETNAM JSC.

 广州市至盛冠美家具有限公司  
Guangzhou Zhisheng Quama Furniture Co Ltd

 海太欧林集团有限公司  
ONLEAD GROUP CO.,LTD

 张家港爱丽家居科技有限公司  
ZHANGJIAGANG ELEGANT HOME-TECH CO., LTD.