

Wilsonart® Solid Surface Awarded GREENGUARD® Certifications

GREENGUARD Certification assures building professionals that Wilsonart Solid Surface products meet low-emission guidelines for chemicals and particulates, making them the superior, environmentally friendly solution for beautiful, durable indoor applications.

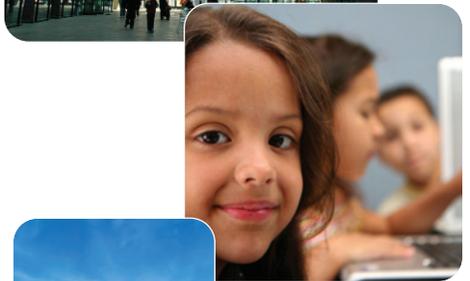
The GREENGUARD Environmental Institute has awarded its GREENGUARD Indoor Air Quality Certification® and GREENGUARD Children & SchoolsSM Certification to Wilsonart Solid Surface. GREENGUARD certification means Wilsonart products are environmentally-friendly for indoor applications, making a significant contribution to quality indoor air by meeting strict chemical and particle emission guidelines.

Wilsonart Solid Surface products are widely used in both commercial and residential environments to construct countertops, service areas, partitions, vanities and related structures in the convenience/retail, education, hospitality, healthcare and military industries. GREENGUARD Certification means that architects, interior designers, building professionals, suppliers and homeowners can safely use Wilsonart Solid Surface products in virtually any interior environment with full assurance they have passed rigorous testing and comply with stringent vapor and particle emissions standards.

What is GREENGUARD?



The GREENGUARD Environmental Institute (GEI) is an industry-independent, non-profit organization that oversees the GREENGUARD Certification Program for low-emitting products, including the establishment of acceptable standards for interior products and testing protocols. The GEI's mission is to improve public health and quality of life by helping manufacturers build better and safer products, and to provide the public with a free indoor air quality resource guide to readily available low emitting products. The GEI oversees the certification process, including all audits and qualifying criteria for each product and product category. Learn more about GREENGUARD by visiting www.greenguard.org.



GREENGUARD Process

- Stage 1:** Initial testing
- Stage 2:** Manufacturing Review and Profile Study
- Stage 3:** Certification Testing
- Stage 4:** GREENGUARD Certification
- Stage 5:** Ongoing Testing

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Why GREENGUARD Certification Matters.

GREENGUARD Certification offers consumers and manufacturers alike the independent assurance that Wilsonart Solid Surface products have minimal impact on indoor air quality. Ongoing tests by GREENGUARD ensure that the level of emissions from substances such as Methyl methacrylate (a chemical used in the manufacturing process) are well within recommendations set by the WHO, OSHA, the USEPA and other internationally respected public health organizations. The issue of indoor air quality is increasingly important to building/design professionals and consumers as more is learned about the effect of residual chemicals in work and home places.

Facts About Indoor Air.

- Americans spend over 90 percent of their time indoors
- Studies document that indoor air contains up to 100x more contaminants than outdoor air
- The EPA classifies poor-quality indoor air as a major risk to human health
- Polluted indoor air may cause or aggravate cancer, asthma, reproductive and developmental problems
- Sick Building symptoms include eye, nose and throat irritation, headaches, itching, fatigue and nausea
- US companies could reclaim \$200 billion in worker productivity by improving indoor air quality
- One in fifteen homes contain Radon concentrations that exceed the EPA's recommended action level
- Dirty, inefficient HVAC ventilation systems are a major cause of Sick Building symptoms



GREENGUARD Environmental Institute.

As an American National Standards Institute (ANSI) Authorized Standards Developer, GEI establishes acceptable indoor air standards for indoor products, environments and buildings. The GREENGUARD Certification mark helps architects, builders, designers and specifiers identify products and materials that meet rigorous standards for chemical emissions.

GREENGUARD Indoor Air Quality Certified®.

The GREENGUARD Certification Program uses performance-based, field-validated standards to define products and materials with low chemical and particle emissions for use indoors. GREENGUARD requires products to be tested on an annual basis for over 2,000 individual Volatile Organic Compounds (VOCs).

GREENGUARD Children & SchoolsSM.

The GREENGUARD Children & Schools standard evaluates the sensitive nature of school populations combined with the unique building characteristics, and presents the most rigorous product emissions criteria to date. Products certified under GREENGUARD Children & Schools are specified in the Collaborative for High Performance Schools, Inc. (CHPS) Best Practices Manual Volume III as criteria for low-emitting materials (EQ2.2).



- *Children are more heavily exposed to environmental toxins than adults.*
- *Children consume more food, water, and have higher inhalation rates per pound of body weight than adults.*
- *Inhalation is an important route of exposure to chemicals have been associated with endocrine disorders, reproductive and developmental toxicity, asthma and allergies.*

Requirements to be met at 168 hours (7 days) with no preconditioning.

Individual VOCs ¹	≤1/100 TLV and ≤1/2 CA chronic REL
Formaldehyde ²	≤0.0135 ppm/13.5 ppb
Total VOCs ³	≤0.22 mg/m ³
Total Aldehydes ⁴	≤0.043 ppm/43 ppb
Total Phthalates ⁵	≤0.01 mg/m ³
Total Particles ⁶ (≤10 μm)	≤0.02 mg/m ³

¹ Any VOC not listed must produce an air concentration level no greater than 1/100 the Threshold Limit Value (TLV) industrial workplace standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Bldg D-7, Cincinnati, OH 45211-4438) and/or no greater than 1/2 the CA Chronic Reference Exposure Level (CREL) (http://www.oehha.ca.gov/air/chronic_rels/AllChrels.html - (CRELS) Adopted by the State of California Office of Environmental Health Hazard Assessment (OEHHA), February 2005).

² Formaldehyde criteria established so that emission levels reach 0.014ppm (13.5ppb) within 14 days of installation (meeting CA 1350 requirements).

³ Defined to be the total response of measured VOCs falling within the C6-C16 range, with responses calibrated to a toluene surrogate.

⁴ Defined to be the total response of a specific target list of aldehydes (2-butanal; acetaldehyde; benzaldehyde; 2,5-dimethylbenzaldehyde; 2-methylbenzaldehyde; 3-and/or 4-methylbenzaldehyde; butanal; 3-methylbutanal; formaldehyde; hexanal; pentanal; propanal), with each individually calibrated to a compound specific standard.

⁵ Defined to be the total response of a specific target list of phthalates including dibutyl (DBP), diethylhexyl (DEHD), diethyl (DEP), butylbenzyl (BBP), di-octyl (DOP), and dimethyl (DMP) phthalates (conducted using a modified phthalate specific analytical method, OSHA 104).

⁶ Particles applicable to fibrous, particle-releasing products with exposed surface area in air streams (a forced air test with specific test method).

Easier LEED Certification.

LEED certification applies to buildings only. Products cannot be LEED certified.

However, specifying GREENGUARD Certified products for construction or remodeling can make it easier to earn LEED certification in the Low-emission Products category.

The certification means Wilsonart Solid Surface used in typical applications qualify for credit in the Low-emission Countertop and Partition categories of the new LEED-CI Rating System's Indoor Environmental Quality section.

Green Building Credits

CHPS Best Practices Manual Volume III

Green Guide for Health Care 2.2

LEED for Commercial Interiors

LEED Canada for Commercial Interiors

LEED Retail for Commercial Interiors (Pilot, Version 1, 4/2007)

LEED for New Construction/Existing Building/Core & Shell

LEED Retail for New Construction (Pilot, Version 2, 2/2007)

LEED for Homes

LEED for Schools

GREENGUARD Certification Program Q & A

What does it mean, if a product carries the GREENGUARD Indoor Air Quality Certified® Mark?

The Mark means that the product has been tested using stringent environmental chamber methods and found to meet the GREENGUARD Indoor Air Quality Standards. GREENGUARD Certified Products are low emitting and contribute minimal levels of pollutants to indoor environments. To ensure continuous low emissions performance, GREENGUARD Certified Products are retested annually and critical components of these products undergo quarterly monitoring tests.

What is the difference between GREENGUARD Indoor Air Quality Certification and GREENGUARD Certification for Children & Schools?

GREENGUARD Indoor Air Quality Certification covers interior products and materials used in commercial buildings. Its testing requirements and emission levels reflect the building parameters and occupant sensitivities of commercial buildings. GREENGUARD Certification for Children & Schools addresses interior products and materials used in daycare facilities and pre-K through 12 school buildings. This program takes the sensitive nature of school populations and the unique building characteristics and maintenance conditions found in schools into consideration and presents the most rigorous product emissions criteria to date.

Why is the GREENGUARD Indoor Air Quality Certified Mark so important?

Product manufacturers and industry organizations are challenged on claims regarding the indoor air quality and environmental performance of their products. How reliable are such claims without third party verification? GEI is an independent, non-profit organization that is completely unbiased in determining whether or not a product meets the GREENGUARD Indoor Air Quality Standards and whether or not a product may bear the GREENGUARD Indoor Air Quality Certified Mark.

Why should one use GREENGUARD Certified Products?

According to the U.S. EPA "Thousands of chemical and biological pollutants are found indoors, many of which are known to have significant health impacts." Additionally, children in the U.S. miss over 6 million school days per year due to asthma alone and the U.S. EPA estimates that half of U.S. schools have indoor air quality problems. Americans spend over 90% of their time indoors, where concentrations of pollutants may be significantly higher than outdoors. Almost all materials and products used indoors emit chemicals and particles that may negatively affect human health. The use of GREENGUARD Certified Products attacks indoor air pollution at the source and can significantly reduce the levels of pollutants in the indoor air.

How does GREENGUARD Environmental Institute know a product is low emitting?

All GREENGUARD Certified Products undergo pollutant emissions testing in process-controlled dynamic environmental chambers following established test protocols developed by Air Quality Sciences, Inc. The test protocols comply with established ASTM, U.S. EPA, and ISO practices and procedures.

To Learn More.

For more information on GREENGUARD, visit www.greenguard.org.

For more information on Wilsonart's environmental program, visit www.wilsonart.com/environment.

Read our GREENGUARD press release at www.wilsonartssolidsurface.com.

For more information on GEI and GREENGUARD programs, please visit www.greenguard.org, send an email to info@greenguard.org or contact our staff at 1.800.427.9681. GREENGUARD Environmental Institute | 1341 Capital Circle, Suite A | Atlanta, Georgia 30067
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