

USG Clean Room™ Firecode™ Acoustical Ceiling Panels

Manufactured by USG Interiors, LLC

This product transparency report summarizes the environmental performance and chemical inventory of the ingredients in USG Clean Room™ Firecode™ Acoustical Ceiling Panels for building professionals and those seeking to understand the product's life-cycle impacts. The data presented in this document may be helpful for obtaining LEED® v4 credits.

SUSTAINABILITY DATA

| | |
|---------------------------------|---|
| Corporate Sustainability Report | Available at www.usg.com/sustainability |
| Low VOC Emissions | Pending |
| Total VOCs After 14 days | Pending |
| VOC Content | Not applicable |
| Rapid Renewing Materials | 7.2% |

REGIONAL MATERIALS & RECYCLED CONTENT

| Manufacturing Plant | Raw materials ≤500 miles | Raw materials ≤100 miles | Pre-Consumer recycled content | Post-Consumer recycled content |
|---------------------|-----------------------------|-----------------------------|----------------------------------|-----------------------------------|
| Cloquet, MN | 63.8% | 3.6% | 49.3% | 5.7% |

Pre and Post-Consumer recycled content as defined by the Federal Trade Commission.

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

Product specific cradle-to-grave LCA results are pending.

PRODUCT ATTRIBUTE REPORT


Transparency Declaration

USG Clean Room™ Firecode™ Acoustical Ceiling Panels

HEALTH PRODUCT TRANSPARENCY - LEEDv4 Qualification MR Credit: Product Disclosure and Optimization

Option 1 Material Ingredient Reporting Manufacturer Inventory (1 Point)

Ingredients are listed in order of content in the final product. Information provided for ingredients down to 1,000 ppm (0.1% of product composition). All ingredients were screened using GreenScreen® List Translator. Ingredients on a hazard list are marked with a (X). Percent may change due to manufacturing variations.

| Ingredient | CAS RN | Percent | Role | Chemical Review | | | | | | | | Notes |
|---|---|--------------|------------------|---|---|------------------|----------------------|----------------------|--------------------|------------------------|----------------|--|
| | | | | List Translator ² | | | | | | | | |
| | | | | LBC Red List ¹ | IARC ³ | MAK ⁴ | NTP-RoC ⁶ | Prop 65 ⁵ | REACH ⁷ | USEPA TRI ⁸ | Other GS Lists | |
| Basemat | | | | | | | | | | | | |
| Mineral wool | 65997-17-3 | 50.0 - 55.0% | Core | | | | | | | | | |
| Perlite | 93763-70-3 | 15.0 - 20.0% | Core | | | | | | | | | |
| Kaolin clay | 1332-58-7 | 10.0 -15.0% | Filler | | | X | | | | | | German MAK - Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |
| Starch | 9005-25-8 | 5.0 - 10.0% | Binder | | | | | | | | | |
| Cellulose | 9004-34-6 | 3.0-7.0% | Binder | | | | | | | | | |
| Laminate | | | | | | | | | | | | |
| Polyvinyl chloride | 9002-86-2 | 1.0 - 2.0% | Binder | X | X | X | | | | | X | Living Future - Red List substance. IARC - Group 3 - Agent is not classifiable as to its carcinogenicity to humans. German MAK - Pregnancy Risk Group C. |
| Proprietary | Undisclosed | 0.5 - 2.0% | Adhesive | | | | | | | | | Highest concern GreenScreen® score-LT-U |
| Titanium dioxide | 13463-67-7 | 0.1 - 0.4% | Laminate pigment | | | | | | | | | Since titanium dioxide is bound within the laminate and not inhalable, it is excluded from several regulatory hazard lists |
| Calcium stearate | 1592-23-0 | 0.1 - 0.2% | Stabilizer | | | | | | | | | |
| Coating | | | | | | | | | | | | |
| Kaolin clay | 1332-58-7 | 1.0 - 2.0% | Paint filler | | | X | | | | | | German MAK - Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |
| Calcium carbonate | 471-34-1 | 1.0 - 1.5% | Paint filler | | | | | | | | | |
| Melamine formaldehyde resin | 9003-08-1 | 0.2 - 0.5% | Binder | X | | | | | | | | Living Future - Red List substance |
|  <p>AUTHORIZED GreenScreen® PRACTITIONER</p> <p>This review was prepared by an Authorized GreenScreen® Practitioner</p> | | | | GreenScreen® Benchmark Score Key for List Translator Assessment | | | | | | | | |
| | | | | LT-1 | Likely Benchmark 1 (Avoid – Chemical of High Concern) | | | | | | | |
| | | | | LT-P1 | Possible Benchmark 1 | | | | | | | |
| | | | | BM-2 | Search for Safer Substitutes | | | | | | | |
| | | | | BM-3 | Still Opportunity for Improvement | | | | | | | |
| | | | | BM-4 | Prefer-Safer Chemical | | | | | | | |
| LT-U | Insufficient information from List Translator lists for Benchmark score | | | | | | | | | | | |

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REFERENCES

1. Living Building Challenge™ (LBC) Red List - A list of chemicals and materials that are known to pose a risk to human health and the ecosystem. Source: <http://living-future.org/lbc>
2. GreenScreen® List Translator: An assessment and hazard classification tool that identifies chemicals on GreenScreen Authoritative and Screening Lists. Source: <http://www.pharosproject.net/>
3. International Agency for Research on Cancer (IARC) – Specialized agency of the World Health Organization that identifies and categorizes chemicals, mixtures, occupational exposures, physical and biological agents, and lifestyle factors that can increase the risk of cancer. Source: <http://monographs.iarc.fr/ENG/Classification/ClassificationsAlphaOrder.pdf>
4. Commission of Germany Maximum Concentrations and Biological Tolerance Values at the Workplace (MAK) – Carcinogenic Substances Source: <http://onlinelibrary.wiley.com/doi/10.1002/9783527682027.ch3/pdf>
5. National Toxicology Program Report on Carcinogens (NTP-RoC) – Interagency program that evaluates agents of public health and provides information on toxic chemicals. Source: <http://ntp.niehs.nih.gov/pubhealth/roc/roc13/>
6. California Proposition 65 (Prop 65) – California law that regulates chemicals known to cause cancer, birth defects or other reproductive harm, and informs citizens about exposures to such chemicals. Source: http://oehha.ca.gov/prop65/prop65_list/Newlist.html
7. Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) - Candidate List of substances of very high concern for Authorization, updated 17 December 2014. Source: <http://echa.europa.eu/information-on-chemicals>
8. United States Environmental Protection Agency Toxic Release Inventory Listed Chemicals (USEPA TRI) – Chemicals that cause cancer, chronic human health effects, significant adverse acute human health effects, or environmental effects. Source: <http://www2.epa.gov/toxics-release-inventory-tri-program/tri-listed-chemicals>

GreenScreen® for Safer Chemicals is a method for comparative Chemical Hazard Assessment (CHA) that can be used for identifying chemicals of high concern and safer alternatives. Drivers for chemical hazard assessment include regulatory standards and ecolabels including; AOEC, Boyes-N, CEPA, DOT, DSL, EPA lists, EU lists, G&L, IARC, MAK, NIOSH-C, NTP lists, NWP Priority, OR P3, OSPAR, PIC, Prop 65, Stockholm, TEDX, TRI PBT, WA PBT, WHMIS, GHS Country lists, SIN, and VwVwS. The US Green Building Council has recently included GreenScreen® in its LEED® rating system v4.