

MATERIAL HEALTH CERTIFICATE

The Cradle to Cradle Certified™ Products Program

OVERVIEW

Industry groups, nonprofits, governments and big brands are prioritizing the identification and elimination of chemicals of concern. These initiatives are driving manufacturers to:

- ✔ Know more about the chemicals in their products and supply chains;
- ✔ Be more transparent about the chemicals in their products;
- ✔ Avoid chemicals of high concern and shift to inherently safer chemicals; and
- ✔ Commit to continuous improvement toward greener chemistry in their products.

While highly regarded as a trusted third-party product certification program, Cradle to Cradle Certified is also widely recognized for the depth and rigor of its Material Health Assessment Methodology and ease of reporting via the certification label. To leverage the years of expert development and practical application that have made Cradle to Cradle Certified the respected brand it is today, the Cradle to Cradle Products Innovation Institute will offer a new certificate for Material Health.

The requirements for the Material Health Certificate are identical to those of Section 3, Material Health of the Cradle to Cradle Certified Product Standard, Version 3.0 or 3.1, which is governed by the Institute's Certification Standards Board. The standard requirements for Continuous Improvement and Optimization (Section 8) must also be met. Assessments will be conducted by accredited assessment bodies that have been trained and accredited by the Institute. The certificate program will be administered by the Institute.

This offering is a tool for manufacturers to communicate their work towards chemically optimized products. In addition to the overall Material Health achievement level, the Institute will offer an enhanced reporting format that will include (sample attached):

- Achievement level (based on the v3.0 or v3.1 Material Health achievement levels)
- Bronze, Silver, Gold, and Platinum (no Basic level)
- Avoiding chemicals of concern summary:
- Banned list compliant (Bronze+)
- No exposure from carcinogens, mutagens, or reproductive toxins (Silver+)
- Does not contain x-assessed chemicals; fully optimized (Gold+)
- Process chemicals have been assessed; none are x-assessed (Platinum)
- Meets VOC emissions requirements
- % assessed by weight
- % by weight A/B/C/X or grey assessed materials
- Number of materials A/B/C/X or grey assessed

Once granted, Material Health Certificates will be valid for two years and will be listed on the Institute's Material Health Certificate Registry: <https://www.c2ccertified.org/products/mhcregistry>

CERTIFICATION FEE

The Institute charges a \$1,600 application fee for a Material Health Certificate for a new product or product group, and \$1000 upon certification issuance, and each year thereafter. These fees are separate from the fees charged by an Accredited Assessment Body for product assessment, testing, and optimization strategies.

For more information, visit <https://www.c2ccertified.org/material-health-certificate>



Carpet XYZ

ISSUED TO: Carpet Company Name

ASSESSED BY:
Assessor

EXPIRES: January X, 2017

STANDARD: v3.0

ASSESSED SCENARIOS:

Manufacture, Installation, Use as insulation, Collection, Recycling

PRODUCTS COVERED:

Carpet A, Carpet B, Carpet C

PRODUCT OPTIMIZATION SUMMARY

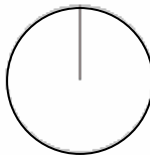
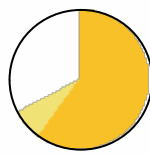
- Cradle to Cradle Certified*TM Banned List compliant
- Material Health optimization strategy developed
- No exposure from carcinogens, mutagens, or reproductive toxicants
- Meets VOC emissions testing requirements
- Product is fully optimized - does not contain any GREY or x-assessed chemicals
- Process chemicals have been identified and none are GREY or x-assessed

PERCENTAGE OF
MATERIALS ASSESSED
BY WEIGHT

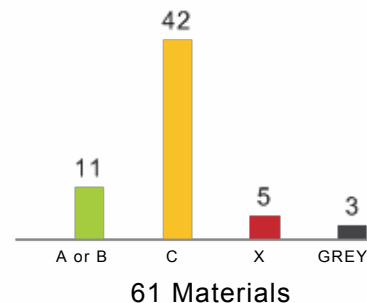
99-100%

Inventory threshold for chemicals
in each material = 100 ppm

ASSESSMENT RATING
BY WEIGHT



PRODUCT OPTIMIZATION



Material Health Certificate Guide

The Material Health Certificate is awarded to products assessed against the requirements in the Material Health category of the [Cradle to Cradle Certified™ Product Standard](#). The Material Health achievement level (Basic, Bronze, Silver, Gold, or Platinum) is shown in the certificate's upper right corner. A Material Health Certificate does not indicate that a product is *Cradle to Cradle Certified™*, which requires assessment against all five Standard categories.

The *Cradle to Cradle Certified™* Material Health Assessment Methodology is a contextual assessment based on chemical hazard identification and qualitative exposure considerations during a product's final manufacture, use, and end-of-use. The exposure assessment is highly simplified and more conservative compared to a conventional, quantitative risk assessment.

Definitions of Administrative Fields

Field	Definition
Issued To	Company that sells the assessed product(s).
Assessed By	Accredited Assessment Body responsible for conducting the product assessment.
Expires	Date the certificate expires. Certificate renewal is required biennially.
Standard	Version of the Standard (Material Health subsection only) the product was assessed against.
Assessed Scenarios	Use and end-of-use scenarios that the assessor considered in the exposure portion of the Material Health assessment. Assessment results are only valid for these uses.
Products Covered	Products included in the scope of the certificate. Certificates may cover multiple product variations.

Definitions of Product Optimization Summary Fields

Cradle to Cradle Certified™ Banned List compliant

The product's materials are not known to contain chemicals on the [Banned Lists of Chemicals](#) above permitted thresholds.

Material Health optimization strategy developed

Plan developed to phase out x assessed chemicals and assess GREY content.

No exposure from carcinogens, mutagens, or reproductive toxicants

Assessed materials do not contain carcinogens, mutagens, or reproductive toxicants with plausible exposure routes.

Meets VOC emissions testing requirements

The product meets the volatile organic compound (VOC) emissions testing requirements described in the Standard.

Does not contain any GREY or x-assessed chemicals; product is fully optimized

The product's materials contain chemicals with only a, b, or c risk ratings (no GREY or x). (Note: In the [Cradle to Cradle Certified™ Material Health Assessment Methodology](#), chemicals in each material are assigned a, b, c, x, or GREY risk ratings. Each material is then assigned an A, B, C, X, or GREY final assessment rating based on the risk ratings of its constituent chemicals. The following table explains the rating system.)

a or b (A or B)	Optimal
c (C)	Moderately problematic, but acceptable for use
x (X)	Highly problematic; targeted for phase out
GREY	Considered unassessed due to unknown identity or lack of toxicity information

Process chemicals have been identified and none are GREY or x-assessed

All process chemicals have been assessed and received an a, b, or c risk rating (no x-assessed or GREY).

Percentage Assessed by Weight

For single-material products, the cumulative percentage of assessed chemicals (a, b, c, and x). For other products, the cumulative percentage of assessed materials (A, B, C, and X). When a certificate represents a group of products, a percent range is shown.

Assessment Ratings by Weight

For single-material products, the percentage of a or b (shown in green), c (shown in yellow), and x (shown in red) assessed chemicals. For other products, the percentage of A or B (shown in green), C (shown in yellow), and X (shown in red) assessed materials. When a certificate represents a group of products, percent ranges are shown.

Product Optimization

Number of materials (or chemical substances for single-material products) assigned each assessment rating.