



Flumroc AG

has successfully achieved Cradle to Cradle Certified® Gold for the product(s) under the name:

Flumroc Schweizer Steinwolle/Swiss Stone Wool «Generation FUTURO» – GOLD

Certification Number
5009

Standard Version
3.1

Lead Assessment Body
Vugge til Vugge ApS

Material Health
Assessment Body
MBDC

Effective Date
30 July 2021

Expiration Date
25 January 2024

Please see the List of Certified Products (available on the Cradle to Cradle Certified Product Registry) for all products covered within this certificate.

This product has met the first draft Version 4.0 requirements for the General Requirements, Material Health, Product Circularity, and Clean Air & Climate Protection categories, the second draft Version 4.0 requirements for the Water & Soil Stewardship category, and the Version 3.1 requirements for the Social Fairness category.

This certification is considered provisional pending completion of the manufacturing facility site visit, which was postponed due to 2020-21 global travel restrictions.

A handwritten signature in blue ink, appearing to read "Elwyn Grainger-Jones".

Elwyn Grainger-Jones
Executive Director
Cradle to Cradle Products Innovation Institute

C2C Certified Material Health Certificate™ GOLD LEVEL

cradle to cradle
products
innovation
institute

ISSUED TO Flumroc AG

Flumroc Schweizer Steinwolle/Swiss Stone Wool «Generation FUTURO» - GOLD

STANDARD VERSION 4.0 (Draft 1)

EFFECTIVE DATE 30 July 2021

EXPIRATION DATE 25 January 2024

LEAD ASSESSMENT BODY

MATERIAL HEALTH ASSESSMENT BODY

Vugge til Vugge ApS

MBDC

PHASES AND PROCESSES CONSIDERED IN THE CHEMICAL TOXICITY ASSESSMENT

Final manufacturing, use, recycling, landfilling

PRODUCTS COVERED

Please see the List of Certified Products (available on the Cradle to Cradle Certified Product Registry) for all products covered within this certificate.

This product has met the first draft Version 4.0 requirements for the General Requirements, Material Health, Product Circularity, and Clean Air & Climate Protection categories, the second draft Version 4.0 requirements for the Water & Soil Stewardship category, and the Version 3.1 requirements for the Social Fairness category.

This certification is considered provisional pending completion of the manufacturing facility site visit, which was postponed due to 2020-21 global travel restrictions.

PRODUCT OPTIMIZATION SUMMARY

- Cradle to Cradle Certified Restricted Substances List compliant
- Material Health optimization strategy not required
- No exposure to EU CLP Category 1 & 2 Carcinogens, Mutagens and Reproductive toxicants or Substances of Very High Concern; Carbon-bonded halogens are <1% of each material (exemptions apply)
- Meets VOC emissions testing requirements for: **Low VOC** Very Low VOC
- VOC content requirements not applicable
- Product is optimized for material health (no grey or x-assessed chemicals)
- Process chemicals are assessed and optimized
- Actions taken to reduce and eliminate emissions of hazardous chemicals in the product's supply chain

PERCENTAGE ASSESSED

100%

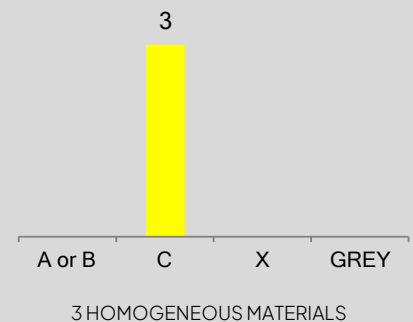
Percentage of materials assessed by weight

Inventory threshold for chemicals in each material = 100 ppm

ASSESSMENT RATINGS



PRODUCT OPTIMIZATION



More information at www.c2ccertified.org/

MHC #5009

C2C Certified Material Health Certificate is a trademark of the Cradle to Cradle Products Innovation Institute

Cradle to Cradle Certified® Circularity Data & Cycling Instructions

Product Name **Generation FUTURO**

Certification Level **Gold**

Company Name **Flumroc AG**

Product Circularity Level **Gold**

Certification Number **5009**

Expiration Date **29 July 2023**

Circular Sourcing	1	Cycled content type:	Pre-consumer recycled content (defined) (34.6%), Post-consumer recycled content (defined) (1.1%)
		Description of cycled content source:	Recycled stone wool insulation
	2	Potential contaminants tested in recycled content:	Toxic metals, Elemental analysis of final product
	3	Biomass source of renewable material in the product:	Undefined or unknown
		Description of renewable material source:	Biobased binder
	4	Potential contaminants tested in renewable content:	No testing conducted
	5	Source of virgin non-renewable material in the product:	Oil-based , Geologic
		Description of virgin non-renewable material source:	Stone, mineral oil
6	Potential contaminants tested in virgin non-renewable content:	No testing conducted	
Circular Design	1	Product's intended cycle:	Designed for technical cycling
	2	Design for maintenance, repair, or refurbishment:	Designed for refurbishment
	3	Product defined functional use period:	50 years
	4	Intended cycling pathway(s):	Refurbishment , Recycling
Circular Systems	1	Circularity, material health, or other related certifications or standards, that have been obtained for the product, restricted substance/chemical lists and/or related chemical or circularity regulations.	None
	2	Intended disassembly and extraction scenarios:	Not applicable to product
	3	Reverse logistics mechanism in place for extraction and reprocessing of the product:	De-installation and extraction (through dedicated take-back) , Reprocessing of materials (through dedicated take-back)
	4	Description of reverse logistics in place for extraction and reprocessing of the product:	Used stone wool or cuttings can be brought back to Flumroc (system see document or homepage). At Flumroc recycling material is shredded, mixed with other raw material and melted for production of new stone wool.

Cycling Instructions	1	Procedure for identification of homogeneous materials in the product intended for cycling:	The whole product can be recycled. Identification of the product can be found either on the packaging label or printed with a laser on each product.
	2	Instructions for the cleaning, maintenance, and repair of the product or a link to where these instructions may be found (if cleaning, maintenance, or repair is required during product use).	
	3	Instructions for the extraction, recovery, disassembly, and reprocessing of the product or a link to where these instructions may be found.	Every user is capable of disassembly of the product, no special qualification is required. Used stone wool or cuttings can be brought back to Flumroc. At Flumroc recycling material is shredded, mixed with other raw material and melted for production of new stone wool. For more information: https://www.flumroc.ch/services/recycling