### LEED Materials Guide



Requirements for Material Resource EPD, SRM and MIR Credits and IEQ Low Emitting Materials







Leveling the playing field for Green Building





### Material Guide

This guide is designed to complement your use of Green Canary and offer a comprehensive overview of v4.1 Material Resource EPD, SRM, and MIR Credits, as well as IEQ Low Emitting Materials.

By the end of this guide, you will have a solid understanding of:

- LEED Credit Requirements: Understand the specific requirements for Material Resource and IEQ credits.
- Certification Basics: Familiarize yourself with the types of certifications available and their significance.
- Key Certification Features: Learn what to look for in certifications to ensure they meet LEED requirements.



### How to use this guide

The LEED Reference Manual has hundreds of pages explaining the Material Resource EPD, SRM, and MIR Credits, and IEQ Low Emitting Materials, not to mention the website, the forum and the interpretations. Then there is v4 and v4.1. In that time, they have changed the criteria, the name and removed the numbers as if they were trying to make it more difficult.

We utilize v4.1 because it the least stringent and simplest to use. We have condensed all this information into these slides. Between this guide our database of Certifications you have all that you need to get these credits without being an expert.

## LEED Credits Overview

#### Material and Resource (MR)

**Environmental Product Declaration (EPD)** Is a Life Cycle Assessment that provides a product's environmental impacts throughout its entire lifecycle. The key indicators typically included in EPDs, Global Warming Potential, Acidification Potential, Eutrophication Potential, Ozone Depletion Potential.

**Sourcing of Raw Material (SRM):** focuses on the sourcing of materials from either recycled content, end of life, Certified wood, Salvaged material or bio-based content.

**Materials Ingredient (MI):** Looks at certifications that disclose chemical ingredients or products that reduce harmful substances. MIR encourages manufacturers to be more transparent and reduce the use of harmful substances.

#### Indoor Environmental Quality (IEQ)

**Low-Emitting Materials:** This credit requires the use of low-emitting materials that contribute to improved indoor air quality. It focuses on materials such as paints and coatings adhesives and sealants, insulation, walls, composite wood and flooring.



### SMDS Sheets

These are the most important part of Green
Canary. They have every option for the LEED
Material Resource (MR) and Indoor Environmental
Quality (IEQ) Low Emitting credit.

Once filled out by the Sub-Contactor they automatically upload and populate the Green Canary Database.

Once all entries have been entered, with a push of a button you are ready to submit for your LEED Credits.



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### SMDS Sheets - Quick notes

SMDS sheet guides the Sub-Contractor through the process.

Building number - One per building

Sub-contractor D/M/W/ESB Y/N Sub-contractor:  Manufacturer:  Manufacturer:  **Directions: sub/vendor fill in all applicable boxes and attach manufacturer letter.  **Provide one SMDS form per product. Items in gray are optional (customize options), red highlights important info.  **Contact:  Company:  Contact:  Company:  Contact:  Company:  Contact:  Contact:  Company:  Contact:  MR Credit 2: Option 1 - EPD (Environmental Product Declaration)  Description:  MR Credit 2: Option 1 - EPD (Environmental Product Declaration)  Description:  MR Credit 2: Option 2 - Embodied Carbon/LCA Optimization*  Select One-Embodied Carbon/LCA Optimization*  MR Credit 4: Option 1 - Material Ingredients (HPD, Declare, Cradie to Cradie)  MR Credit 4: Option 2 - Material Ingredient Optimization  Select One - Material Ingredient Optimi		Material and Resource "M	R" SMDS:	Sustai	nable Material Data Sheet		
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MR Credit 2: Option 2 - Embodied Carbon/LCA Optimization* Select One-Embodied Carbon/LCA Optimization >  MR Credit 4: Option 1 - Material Ingredients (HPD, Declare, Cradle to Cradle)  Select One - Material Ingredient of the content inventory   Y/N    MR Credit 4: Option 2 - Material Ingredient Optimization   Select One - Material Ingredient Optimization   Select One - Material Ingredient Optimization   Select One - Material Ingredient Optimization   Post-consumer Recycled Cont. (consumer waste; end-of-life of product)   Pre-consumer Recycled Cont. (Diverted from manufacturing process)    General Note:   Biobased Material   Testing & Sustainable Agriculture Network's Compliant   Or Meets San's Basic Criteria (Testing Only)    General Note:   FSC Certified Wood   Forest Stewardship Council Certified Wood   Page #    See LEEDv4.1 credit requirement tabs for explanations of each credit option.   DO NOT PDF	EPD Program Operator:	DOGINO TVDO IN 1100 TVOTTI - EXISTINATIV	OTION THO	_		for local c	riteria)
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Select One-Embodied Carbon/LCA Optimization  MR Credit 4: Option 1 - Material Ingredients (HPD, Declare, Cradle to Cradle,)  Select One - Material Ingredient  Select One - Material Ingredient  Post-consumer Recycled Cont.  (consumer Waste; end-of-life of product) Pre-consumer Recycled Cont.  (Diverted from manufacturing process)  Biobased Material For MR Credit 2: Option 2 and MR Credit 3 - Add zip code to Regional Material if products are sourced (extracted, manufactured, and purchased) within 100 miles or 160 9km of the project site, they are valued at twice their value  Supporting Documentation:  Did you provide the Supporting Documentation?  See LEEDv4.1 credit requirement tabs for explanations of each credit option.  Select One - Material Ingredient Optimization Post-consumer Recycled Cont.  (consumer waste; end-of-life of product) Pre-consumer Recycled Cont.  (Diverted from manufacturing process)  Biobased Material Testing & Sustainable Agriculture Network's Compliant or Meets San's Basic Criteria (Testing Only)  FSC Certified Wood Forest Stewardship Council Certified Wood OR Meets Extended Producer Responsibility Meets Extended Manufacturer Responsibility Meets Extended Manufacturer Responsibility Meets Extended Manufacturer Responsibility Meets Extended Manufacturer Responsibility oriteria Closed Loop or Take Back Program Name	MR Credit 2: Ontion 2 - Emb	odied Carbon/LCA Optimization*					
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General Note:  *For MR Credit 2: Option 2 and MR Credit 3 - Add zip code to Regional Material if products are sourced (extracted, manufactured, and purchased) within 100 miles or 160.9km of the project site, they are valued at twice their value.  Supporting Documentation:  Did you provide the Supporting Document  See LEEDv4.1 credit requirement tabs for explanations of each credit option.  General Note:  Biobased Material  Testing & Sustainable Agriculture Network's Compliant or Meets San's Basic Criteria (Testing Only)  FSC Certified Wood  Forest Stewardship Council Certified Wood OR meets the alternative compliance path (see MRc3 tab)  Extended Producer Responsibility  Meets Extended Manufacturer Responsibility criteria  Closed Loop or Take Back Program Name		Select One - Material Ingredient Optin	nization 🔻				
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Name of Document  Page #  See LEEDv4.1 credit requirement tabs for explanations of each credit option.  Page #  DO NOT PDF  meets the alternative compliance path (see MRc3 tab)  Extended Producer Responsibility  Meets Extended Manufacturer Responsibility criteria  Closed Loop or Take Back Program Name							
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SMDS Form ▼ MRc2 - option 1 ▼ MRc2 - Option 2 ▼ MRc3 ▼ MRc4 - Option 1 ▼ MRc4 - Option 1	SMDS Form ▼ M	IRc2 -option 1 ▼ MRc2- Opt	tion 2 🔻	MR	c3 ▼ MRc4 - Option 1 ▼	MRc	4 - Option 2 🔻

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	IEQ Low Emitting	Material "SMD	S" (Sust	ainable Material I	Data Sheet)	
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lob:						
Submittal #		Page #			0.0.5.5.1	O A NI A D V
Product Name:					GREEN	CANARY
CSI Division	Select One - CSI Division	- 00	00 00	www.greencanar	ysoftware.com	ecoREAL 2009, WBE/DBE ©
Sub-contractor D/M/W/E	SB	Y/N	₩,			
Sub-contractor:		Sub	Phone:		Email	
Manufacturer:		Mfg.	Phone:		Email	
Description:						
·				s and attach manufac		
Contact:	*Provide one SMDS fo	im per product. Ite	Instructio		inize options).	
Company:					ts & Coatings select th	ne VOC Limit and the Evaluation.
Contact:					ck an evaluation or se	
Email:						bs for further explanation.
	act@greencanarysoftware.com			ducts and get manuf		https://bettermaterials.gbci.org/
	Low Em	nitting Materials (C	Choose one	from each section)		
l.) Is the product "Inte	rior' of the Weatherproofing If no, no further information needed, th	Y/N The Submittal is N/A	3.) (EQ) P	roduct Categories (	Continued, Pick One	)
			COMPOS	TE WOOD	(Excludes flooring, o	ceiling, wall panels, or furniture)
ND 11 ( 11)			Does it Me	et (Pull-down list)	Composite W	ood Emission Evaluation
.) Provide cost of Mai	terial or Surface Area		FURNITU		(Exclude office accessories from the credit)	
Adhesives & Sealant, Paints	COST	0	Does it Me	et (Pull-down list)	Furniture	Emission Evaluation
& Coatings must enter a	*Volume (not a preferred metric)	0	FLOORIN		(Excludes subflooring	g and wet-applied products)
surface area	SURFACE AREA	0	1 -	eet (Pull-down list)	Flooring	Emission Evaluation
			WALL PA		(Exclude removable	panels, cabinetry & structure)
			•	et (Pull-down list)	Wall Panel Emission Evaluation	
3.) (EQ) Product Categories (Pick One)		CEILING		(Exclude overhead structural elements)		
DHESIVES & SEALA	NT (Only interior products applied on-site)			et (Pull-down list)	•	Emission Evaluation
	ing (must not exceed VOC limit below)	g/L	•			plumbing insulation)
ick both pull-downs	Adhesives, Sealants VOC Limit	▼ g/L		eet (Pull-down list)		Emission Evaluation
oes it meet	Adhesives and Sealant Evalua					
	Autoortoo una oodiani Erana	1110110	4.) Suppo	rting Documentation	1	
AINTS & COATINGS	(Only interior products applied on-site)					
	ing (must not exceed VOC limit below)	g/L	Did you pr	ovide the Supporting	Documentation?	Y/N
Todact actual VOC Ital	Paints, Coatings VOC Limit	▼ g/L	Name of D	ocument		
ick both pull-downs		-	Dage #			
	Paints and Coatings Evaluat	ions	Page #			
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More info is on the tabs

LEED EQ Credit 2 Info ▼ USGBC Equivalents

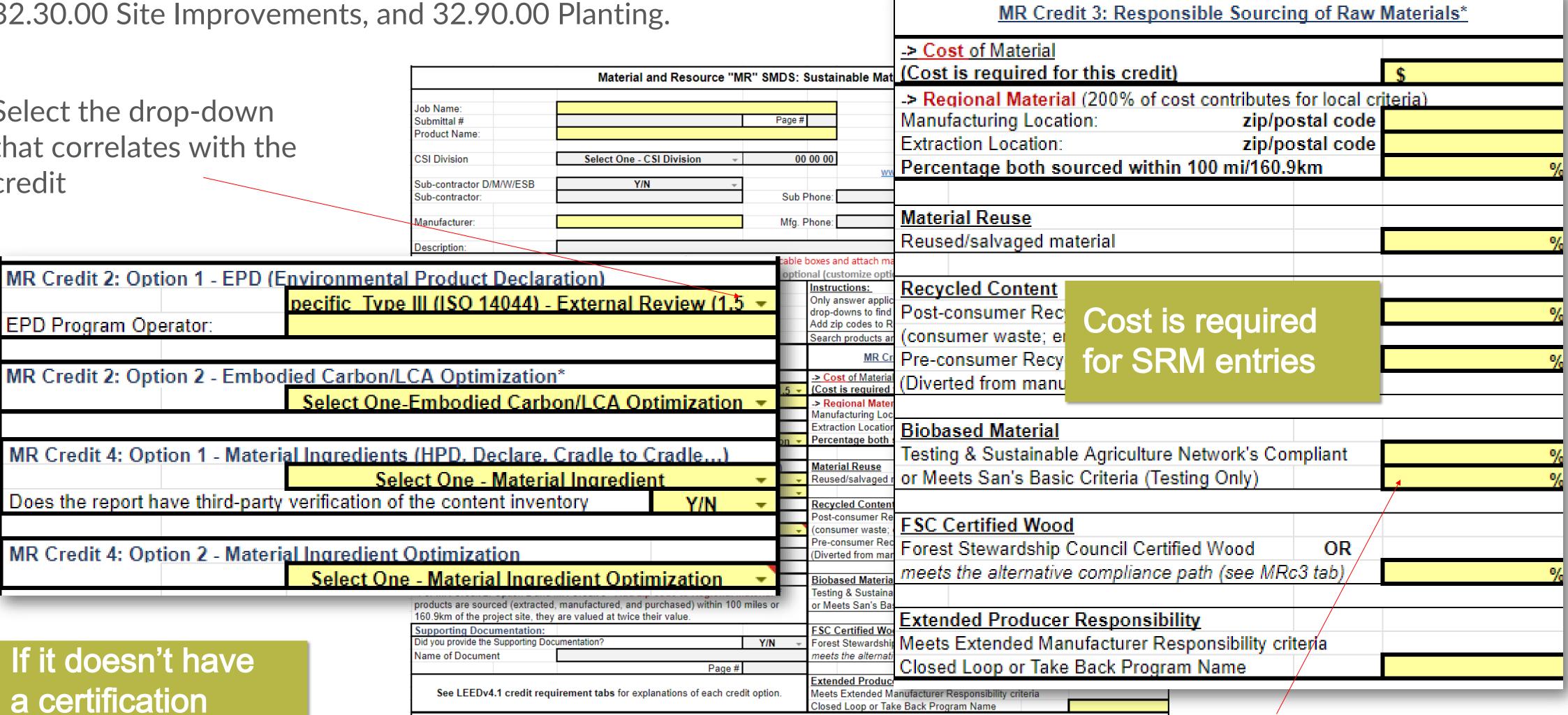


### MR SMDS Sheets

Div 3-10 sections 31.60.00 Foundations, 32.10.00 Paving, 32.30.00 Site Improvements, and 32.90.00 Planting.

Select the drop-down that correlates with the credit

EPD Program Operator:



DO NOT PDF

save as .xlsx

If it doesn't have a certification leave it blank

Enter the % of SRM if applicable

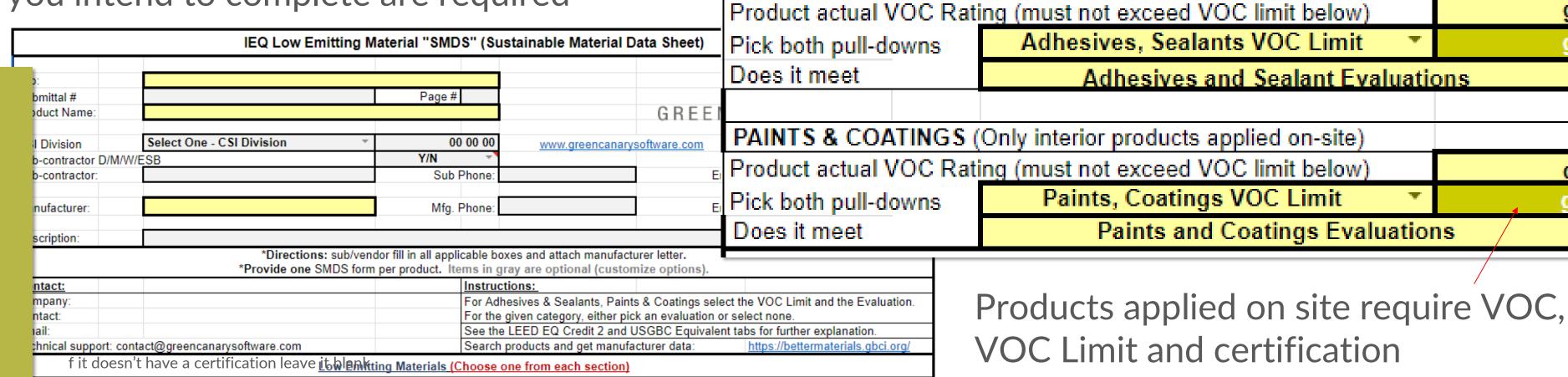


### IEQ SMDS Sheets

Products inside the air envelope of the building

- Only the categories you intend to complete are required

In project settings select Cost/Surface Area or Volume. One is required per SMDS Sheet



INSULATION

Does it Meet (Pull-down list)

3.) (EQ) Product Categories (Pick One)

ADHESIVES & SEALANT (Only interior products applied on-site)

Is the product "Interior' of the Weatherproofing 3.) (EQ) Product Categories (Continued, Pick One) .) (EQ) Product Categories (Continued, If no, no further information needed, the Submittal is N COMPOSITE WOOD Excludes flo Does it Meet (Pull-down list) 2.) Provide cost of Material or Surface Area (Exclude of URNITURE Does it Meet (Pull-down list) Adhesives & Sealant, Pain (Excludes su & Coatings must enter a \*Volume (not a preferred metric) FLOORING surface area JRFACE AREA Does it Meet (Pull-down list) (Exclude re WALL PANELS Does it Meet (Pull-down list) (EQ) Product Categories (Pick One) CEILING Exclude over ADHESIVES & SEALANT (Only interior products applied on-site) Does it Meet (Pull-down list) INSULATION Adhesives, Sealants VOC Limit Does it Meet (Pull-down list) Pick both pull-downs Does it meet 4.) Supporting Documentation PAINTS & COATINGS (Only interior products applied on-site) Did you provide the Supporting Documentation Product actual VOC Rating (must not exceed VOC limit below) Name of Document Pick both pull-downs Paints and Coatings Evaluations DO NOT PDF Does it Meet (Pull-down list) save as .xlsx

> Select the Certification or None

(Excludes flooring, ceiling, wall panels, or furniture) COMPOSITE WOOD Composite Wood Emission Evaluation Does it Meet (Pull-down list) (Exclude office accessories from the credit) FURNITURE Furniture Emission Evaluation Does it Meet (Pull-down list) (Excludes subflooring and wet-applied products) FLOORING Flooring Emission Evaluation Does it Meet (Pull-down list) (Exclude removable panels, cabinetry & structure) WALL PANELS Wall Panel Emission Evaluation Does it Meet (Pull-down list) (Exclude overhead structural elements) CEILING

Ceiling Emission Evaluation

Insulation Emission Evaluation

(Exclude HVAC and plumbing insulation)

One Product per SMDS sheet



g/L

### Product Data Sheet



#### FIBERTEX 450 ROCKWOOL

#### Introduction

Bradford Fiberrex 450 is a general purpose industrial insulation for use on process equipment, vessels, tanks and reactors. It is a medium duty thermal and acoustic insulation suitable for continuous operation up to 450°C.

#### Product Description

Bradford Fibertex 450 Rockwool is a robust medium density insulation product. Fibertex 450 is manufactured from spinning a molten mixture of natural rock and recycled products into fine wool like fibers. The inorganic fibers are bonded together using a thermosetting resin to form the final product. The product can be identified by its dark green/brown

#### Applications

Fibertex 450 can be used in applications where operating temperatures do not exceed 450°C such as process temperature control, energy conservation, condensation prevention, acoustic absorption treatment and personnel protection from plant and equipment.

#### Typical applications include

- · large diameter · reactors · boilers
- party walls

Bradford Fibertex 450 is easily installed by impuling the batts or blankets on weld pins and securing with speed clips. The un-faced surface of the Rockwool Batt or Blanket is to be applied to the hot surface to be



- Lightweight highly durable insulation product - Forms shape of equipment to be insulated
- . Excellent and cost effective thermal insulation
- Performance is not adversely effected from contact
- Non combustible
- . Low chloride content resulting in less corrosion of insulated steel process equipment
- Biosoluble and safe to use product

#### Available Facings

Fibersex 450 is available as either un-faced Semi-rigid boards or Flex-Skin faced blankers. Flex Skin blankers incorporate a non-woven fabric facing that enhances flexibility, handling and sensile strength. For mesh faced products please refer to Bradford Fibermesh range of products. Please note a range of facings for Fibertex 450 are available to meet your requirements - contact Bradford for more information

#### Health and Safety

This product is manufactured to the latest Fiber Bio-Soluble (FBS-1) Rockwool formulation and is: not classified as hazardous according to the criteria of the ASCC (formally NOHSC) guidelines. For further information refer MSDS sheet on Bradford website.

#### SKU Table

	Thickness (mm)	Length (mm)	Width (mm)	Pieces per Pack	Nominal M2 per pack	Nominal Piece Weight (kg)	Nominal Weight/pack (list)
	25	1500	900	12	16.2	2.7	32.4
	25	1500	1200	6	10.8	3.6	21.6
	38	1500	900	8	10.8	4.1	32.4
Board	50	1500	900	6	8.1	5.4	32.4
	56	1500	1200	3	5.4	7.2	21.6
	63	1500	900	4 4	5.4	6.8	27.2
	75	1500	500	541	5.4	8.1	32.4
	75	1500	1200	2	3.6	10.8	\$1.6
	100	1500	500	3	4.1	30.8	32.4
	25	5600	750	2	5.4	5.4	10.8
	38	5600	750	B 31 0	2.7	8.2	8.2
Blanker	50	3600	750	31 3	2.7	10.8	10.8
DEBRECT	63	3600	750	3 31 3	2.7	15.6	13.6
	75	5600	750	E 31 8	2.7	16.2	16.2
	100	3600	750		2.7	21.6	21.6

# ROCKWOOL

**FIBERTE** 

#### Required

- Job Name Building number
- **Exact Product Name** not generic names "exterior shingles" or "Wood Doors"
- Manufacturer

#### Additional (helps categorize)

- Description of product
- **CSI** Division
- Sub-contractor who supplied the product
- Submittal Number We need this to reference back to your documentation and original submittal in case

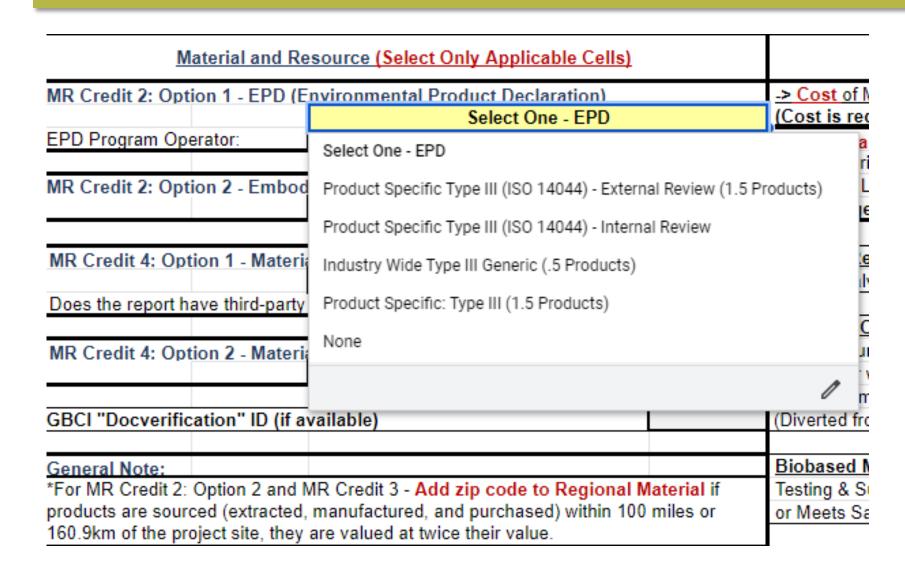
	Material and Resource	e "MR"	' SMDS: Sustainab	ole Material Data Sheet	
Job Name:				-	
Submittal #			Page #		In Control of the Con
Product Name:					''
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CSI Division	Select One - CSI Division	₩	00 00 00	S. 1. = - 17	0711171111
				www.greencanarysoftware.com	ecoREAL 2009 ©
Sub-contractor D/M/W/ESB	Y/N	~			
Sub-contractor:			Sub Phone:	е	mail
Manufacturer:			Mfg. Phone:	e	mail
Description:					



### Environmental Product Declarations

Option 1 - An Environmental Product Declaration (EPD)

A document that demonstrates the environmental impacts of a product. It is a transparency tool to share the life cycle analysis (LCA) of product



#### **EPD Resources**

Mindful Materials

SM Transparency Catalog

The International EPD

System

Origin



- Product Specific Type III External Review (1.5 Products)
- Product Specific Type III Internal Review (1 Products)
- Industry Wide Type III Generic (.5 Products)

#### Parts of EPD

- Products applied to
- Program Owner
- Standards adhered to ISO and EN
- PCR determines the product and what category it goes in
- LCA Results
- Reviewer



CERTIFIED

ENVIRONMENTAL RODUCT DECLARATION UL.COM/EPD

### What's in an EPD?

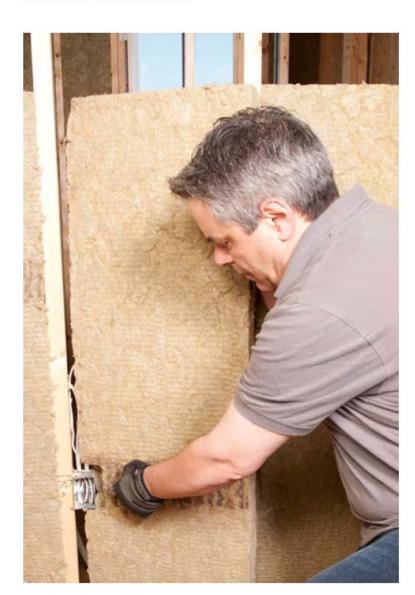
#### Option 1 - Environmental Product Declarations



**ENVIRONMENTAL PRODUCT DECLARATION** 

#### **ROCKWOOL**<sup>™</sup> STONE WOOL Insulation

ROCKWOOL NORTH AMERICA



ROCKWOOL™ Stone Wool/Mineral Wool Insulation is optimized for performance, delivering on Thermal Comfort, Acoustics, Fire protection and more.



CERTIFIED



#### LCA results interpretation

In the production of SGG DIAMANT, we find two main sources of impacts.

One is the energy consumed in the furnace and the other one is the impacts generated in the production of one of the main raw materials, the soda ash.

Soda ash is in the origin of more than 25% of the GWP, more than 60% of the abiotic depletion for non fossil fuels (ADP elements) and more than 20% of the energy consumption.

		Environmental impacts (A1-A3) sgg DIAMANT 6mm	Unit
	Global warming	19.5	Kg CO₂ equiv/FU
<b>P</b>	Non-Renewable resources consumption <sup>[1]</sup>	232	MJ/FU
O	Energy consumption <sup>[2]</sup>	252.2	MJ/FU
<b>(</b>	Water consumption <sup>[3]</sup>	0.0544	M³/FU
	Waste production <sup>[4]</sup>	0.4875	Kg/FU

This indicator corresponds to the abiotic depletion potential of

The LCA results are the baseline for an Optimized EPD

Cover Page

2nd Page

**EPD** Results





<sup>[2].</sup> This indicator corresponds to the total use of primary energy.

This indicator corresponds to the use of fresh net water.
 This indicator corresponds to the sum of hazardous, non-hazar

### EPD Examples

#### Option 1 - Environmental Product Declarations

#### **ENVIRONMENTAL PRODUCT DECLARATION**



Aluminum Extrusions

Mill Finished, Painted, and Anodized

According to ISO 14025 and ISO 21930:2017

EPD PROGRAM AND PROGRAM OPERATOR NAME, ADDRESS, LOGO, AND WEBSITE	UL ENVIRONMENT 333 PFINGSTEN RD, NORTHBROOK	WWW.UL.COM , IL 60062 WWW.SPOT.UL.COM	
GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER	Program Operator Rules v 2.7 20	)22	
ASSOCIATION NAME AND ADDRESS	Aluminum Extruders Council (AEC)		
DECLARATION NUMBER	4790414446.102.1		
DECLARED PRODUCT & DECLARED UNIT	Aluminum extrusion products: mill t aluminum extrusion products.	finished, painted, and anodized; declared unit: 1 metric ton of	
REFERENCE PCR AND VERSION NUMBER	Calculation Rules and Report Requ	g Related Products and Services, Part A: Life Cycle Assessment lirements, v3.2 (UL, 2018); Part B: Aluminum Construction and ard 10010-38, Edition 1 (UL, 2022).	
DESCRIPTION OF PRODUCT APPLICATION/USE	Non-thermally enhanced aluminum and powder paint) and anodized us	n extrusions, including mill finished, painted (liquid sed in construction.	
MARKETS OF APPLICABILITY	North America		
DATE OF ISSUE	November 1, 2022		
PERIOD OF VALIDITY	5 years		
EPD TYPE	Industry-average		
EPD SCOPE	Cradle to gate with required options	s, (modules A1-A3, modules C1-C4, and module D)	
YEAR(S) OF REPORTED PRIMARY DATA	2020-2021		
LCA SOFTWARE & VERSION NUMBER	GaBi v10		
LCI DATABASE(S) & VERSION NUMBER	GaBi 2021 (CUP 2021.2)		
LCIA METHODOLOGY & VERSION NUMBER	IPCC AR5 (GWP 100), TRACI 2.1 an	nd CML-IA v4.8 (ADPf)	
		UL Environment	
The sub-category PCR review was conducted by:		PCR Review Panel	
		epd@ul.com	
This declaration was independently verified in acc UL Environment "Part A: Calculation Rules for the Requirements on the Project Report,", v3.2 (UL, 2021930:2017, serves as the core PCR ☐ INTERNAL ☑ EXTERNAL	Cooper McC		
LINICHIAL MENTENIAL	Cooper McCollum, UL Environment		
The EPD conforms with:	ISO 21930:2017		
This life cycle assessment was independently verified and the reference PCR by:	fied in accordance with ISO 14044	Thomas P. Gloria, Industrial Ecology Consultants	

**Industry-Average EPD** | Example

Note: Highlighting is a good way to verify requirements and help the LEED verifiers

#### **ENVIRONMENTAL PRODUCT DECLARATION**





Allegion plc Ives Architectural Hinges According to ISO 14025, EN 15804, and ISO21930:2017

PROGRAM OPERATOR	UL Environment 333 Pfingsten R	load Northbrook, IL 60611		
GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER	General Program Instructions v.2	2.5 March 2020		
MANUFACTURER NAME AND ADDRESS	Allegion plc 2720 Tobey Dr, Indianapolis, IN 4	46219		
DECLARATION NUMBER	4789828313.113.1			
DECLARED PRODUCT & FUNCTIONAL UNIT	Three average architectural hinge door for 75 years	es installed on a 3'x7' standard		
REFERENCE PCR AND VERSION NUMBER	UL PCR Part A - Version 3.2 UL Part B Builders Hardware EPI	D Requirements		
DESCRIPTION OF PRODUCT'S INTENDED APPLICATION AND USE	Installed on a door and a frame to together and permit the door to so	o connect the two components		
PRODUCT RSL DESCRIPTION	25 Years			
MARKETS OF APPLIABILITY	Americas			
DATE OF ISSUE	DATE OF ISSUE 10/1/2021			
PERIOD OF VALIDITY 5 Years				
EPD TYPE	Product-specific			
EPD SCOPE	Cradle to grave			
YEAR OF REPORTED MANUFACTURER PRIMARY DATA	2019			
LCA SOFTWARE & VERSION NUMBER	GaBi ts Version 10.0.0.71			
LCI DATABASE & VERSION NUMBER	GaBi Content Version 2020.2			
LCIA METHODOLOGY & VERSION NUMBER	CML 2001-Jan 2016 and TRACI	2.1		
The sub-category PCR review was conducted	UL Environment			
by:	PCR Review Panel			
	epd@ulenvironment.com	1		
This declaration was independently verified in ac The UL Environment "Part A: Calculation Rules f Requirements on the Project Report," v3.2 (Dec serves as the core PR, with additional consideral	for the Life Cycle Assessment and 2018), based on ISO 21930:2017,	Thomas Sprin		
(2013) and the USGBC/UL Environment Part A B		Thomas P. Gloria, Industrial Ecology Consultants		
This life cycle assessment was conducted in accordance with ISO 14044 and the reference PCR by:		WAP Sustainability Consulting		
This life cycle assessment was independently ve 14044 and the reference PCR by:	This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:			

**Product Specific: Type III EPD** | Example



### EPD Examples

#### **Product Specific Type III**

**ENVIRONMENTAL PRODUCT DECLARATION** 



Rockwool International A/S (Rockwool North America)

Rockwool Stone wall thermal Insulation

According to EN 15804 and ISO 14025

Dual Recognition by UL Environment and Institut Bauen und Umwelt e.V.

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. <a href="Exclusions: EPDs"><u>Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. <a href="EPDs">EPDs</a> can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds — e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. <a href="Accuracy of Results: EPDs">Accuracy of Results: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. <a href="Comparability: EPDs">Comparability: EPDs</a> are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.</u>



PROGRAM OPERATOR	UL Environment
DECLARATION HOLDER	ROCKWOOL International A/S (Rockwool North America)
ULE DECLARATION NUMBER	4789092768.101.1
IBU DECLRATION NUMBER	EPD-RWI-20190075-CCD1-EN
DECLARED PRODUCT	ROCKWOOL stone wool Thermal Insulation
REFERENCE PCR	Product Category Rules Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Background Report, 03.2018 Product Category Rules Part B: Mineral insulating materials, 12.2018

DATE OF ISSUE	17/07/2019
DATE OF EXPIRATION	17/06/2024

	General information	
	Product / Product description	
CONTENTS OF THE	LCA calculation rules	
DECLARATION	LCA scenarios and further techni-	cal information
	LCA results	
	References	
The PCR review was conducted by	by:	IBU – Institut Bauen und Umwelt e.V.
		PCR was approved by the Independent Expert
		Committee (IEC) of IBU
was independently verified in acc Underwriters Laboratories		Grant R. Martin
□ INTERNAL	⊠ EXTERNAL	Grant R. Martin, UL Environment
This life cycle assessment was in accordance with EN 15804 and the		IBU – Institut Bauen und Umwelt e.V.

EN 15804 & EN 14025 and External box checked

#### **Industry Wide**

#### **ENVIRONMENTAL PRODUCT DECLARATION**



AMERICAN INSTITUTE OF STEEL CONSTRUCTION
FABRICATED HOT-ROLLED STRUCTURAL STEEL SECTIONS

According to ISO 14025 and ISO 21930:2017

EPD PROGRAM AND PROGRAM OPERATOR NAME, ADDRESS, LOGO, AND WEBSITE	UL Environment 333 Pfingsten Road Northbrook, IL 60611	https://www.ul.com/ https://spot.ul.com
GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER	General Program Instructions v.2.5 March 2020	
ASSOCIATION NAME AND ADDRESS	American Institute of Steel Construction   130 E	Randolph Street, Suite 2000   Chicago, IL 60601
DECLARATION NUMBER	4789556099.102.1	
DECLARED PRODUCT & DECLARED UNIT	Fabricated Hot-Rolled Structural Steel Sections,	1 metric ton
REFERENCE PCR AND VERSION NUMBER	Part A: Calculation Rules for the LCA and Requirement, V3.2, 12.12.2018) and Part B: Des Requirements (UL Environment, V2.0, 08.26.202	ignated Steel Construction Product EPD
DESCRIPTION OF PRODUCT APPLICATION/USE	Hot rolled structural steel sections used in building	ng, bridge, and industrial projects
MARKETS OF APPLICABILITY	North America	
DATE OF ISSUE	January 1, 2021	
PERIOD OF VALIDITY	5 years	
EPD TYPE	Industry-average	
EPD SCOPE	Cradle-to-gate	
YEAR(S) OF REPORTED PRIMARY DATA	2019-2020	
LCA SOFTWARE & VERSION NUMBER	GaBi v10	
LCI DATABASE(S) & VERSION NUMBER	GaBi 2020 (CUP 2020.2)	
LCIA METHODOLOGY & VERSION NUMBER	TRACI 2.1	

	UL Environment
	PCR Review Panel
This PCR review was conducted by:	epd@ulenvironment.com
This declaration was independently verified in accordance with ISO 14025: 2006.  □ INTERNAL  □ EXTERNAL	Grant R. Martin
	Grant R. Martin, UL Environment
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	Spormed Spring
	Thomas P. Gloria, Industrial Ecology Consultants





### EPD Examples

All certification documents must be valid during design or construction. If it expires before that date, the certification will be rejected.

General Information			
Bauen mit Backstein Zweischalige Wand Marketing e. V.	Facing bricks, clay pavers and brick slips		
Programme holder IBU - Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany	Owner of the Declaration Bauen mit Backstein Zweischalige Wand Marketing e. V. Schaumburg-Lippe-Straße 4 53113 Bonn		
Declaration number	Declared product / Declared unit		
EPD-ZWM-20160126-ICG1-EN	1 tonne facing bricks, clay pavers and brick slips		
This Declaration is based on the Product Category Rules: Bricks, 01.2016 (PCR tested and approved by the SVR)  Issue date	Scope: This document refers to facing bricks, clay pavers and brick slips manufactured by "Bauen mit Backstein Zweischalige Wand Marketing e.V." 12 member companies supplied data from 2014 for this Declaration. The companies involved represent 90% of the member companies merged as manufacturers of		
20.10.2016  Valid to 19.10.2021	facing bricks, clay pavers and brick slips in the  Zweischalige Wand association. The production volume of these companies accounts for approx. 95% of the German market. The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.		
	Verification		
Wiremanes	The CEN Norm /EN 15804/ serves as the core PCR Independent verification of the declaration according to /ISO 14025/		
Prof. DrIng. Horst J. Bossenmayer (President of Institut Bauen und Umwelt e.V.)	internally x externally		
Lehmann	Stefan 2.		
Dr. Burkhart Lehmann (Managing Director IBU)	Dr. Stefan Diederichs (Independent verifier appointed by SVR)		







### EPD - Not Accepted

#### Table 1

CREDIT CATEGORY	LEED® V4 REQUIREMENT	LEED® 2009 REQUIREMENT	OWENS CORNING® PRODUCT COMPARISON
		Energy and Atmosphere (EA)	
Minimum Energy Performance- Prerequisite 2:  Whole Building Energy Simulation Performance improvement or Prescriptive Compliance in accordance with ANSI/ ASHRAE/IESNA Standard 90.1-2010,		Whole Building Energy Simulation Performance improvement dependent on building type, baseline performance according to ANSI/ ASHRAE/IESNA Standard 90.1-2007, Appendix G.	Fiberglas™ Rigid and Semi Rigid Insulation helps reduce building energy demand while improving thermal comfort for occupants. The project team is responsible for conducting the energy analysis to determine the overall building energy efficiency.
Optimize Energy Performance  Whole Building Energy Simulation improvement beyond prerequisite or Prescriptive Compliance using ASHRAE 50% Advanced Energy Design		Improved performance rating compared with baseline building performance rating per ANSI/ ASHRAE/IESNA Standard 90.1-2007, Appendix G.	Fiberglas™ Rigid and Semi Rigid Insulation helps reduce building energy demand while improving thermal comfort for the occupants. Dependent on U-value of construction assembly. Project team responsible for conducting energy analysis to determine the overall building energy efficiency.
		Materials & Resources (MR)	
Building Product Disclosure & Use at least 20 different permanently installed Optimization- Environmental Product Declaration  Use at least 20 different permanently installed products sourced from at least five different manufacturers that have third-party certified EPD		products sourced from at least five different NA	
Raw Material Source and Extraction Reporting	Sum of postconsumer recycled content plus ½ the pre-consumer recycled content, constitutes 25%, by cost, of the total value of the project.  Products sourced within 100 miles (160 km) of project site valued at 200% of cost.	Sum of post-consumer recycled content plus ½ the pre-consumer content by cost, of the total value of the project.  Products sourced within 500 miles of project site by cost, of the total materials value.	Fiberglas** Rigid and Semi-Rigid Insulation, U.S. manufacturing plant provides regionally available material and contain a minimum 22% post-consumer and 31% pre-consumer recycled content, 53% total. Please contact 1-800-GET-PINK* for specific product information.
Building Product Disclosure and Optimization Material Ingredients	Option 1. Material Ingredient Reporting (1 point) Use at least 20 different permanently installed products from at least five different manufacturers that use any of the following programs to demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm).	NA	Owens Corning <sup>®</sup> Fiberglas <sup>®</sup> 700 Series Insulation has published Health Product Declarations which meet the LEED MR credit requirements for disclosure.

Listing the certification will reject the product

Need the EPD documentation

Ok to use for SRM\*
Need the MIR
documentation

\*Better if you get documentation direct from the manufacture or invoice. They will provide location of the Plant and Extraction



### Option 2 - Embodied Carbon/LCA Optimization

#### Embodied Carbon/LCA Optimization (EPD Optimized):

- Utilizes an EPD to create a Baseline Impact report and creates an optimized action plan to reduce an impact category
- An action plan of LCA to reduce a GWP by a certain amount. A goal is not a plan
- Can also reduce impact categories

Material and Re	esource (Select Only Applicable Cells)		MR Credit 3: Responsible S
MR Credit 2: Option 1 - EPD (E	nvironmental Product Declaration)		-> Cost of Material
	Select One - EPD	•	(Cost is required for this credit)
EPD Program Operator:			-> Regional Material (200% of cost contr
			Manufacturing Location:
MR Credit 2: Option 2 - Emboo	lied Carbon/LCA Optimization*		Extraction Location:
	Select One-Embodied Carbon/LCA (	Optimization	Percentage both sourced within 100 m
	Select One-Embodied Carbon/LCA Optimization	on	
MR Credit 4: Option 1 - Materi			
	LCA impact reduction action plan (0.5 Products	s)	
Does the report have third-party	Third party verified impact reductions in GWP		
MR Credit 4: Option 2 - Materi	Third Party verified impact reduction min. 10%	reduction in GV	VP (1.5 Products)
	Third Party impact reductions with min. 20% re	eduction in GWF	2 & 5% in two other categories (2 Products)
GBCI "Docverification" ID (if a			
	Notie		
General Note:			
*For MR Credit 2: Option 2 and I			
	manufactured, and purchased) within 100 n	niles or	or Meets San's Basic Criteria (Testing On
160.9km of the project site, they	are valued at twice their value.		FCC C481W1
Supporting Documentation: Did you provide the Supporting Doc	umontation?	Y/N -	FSC Certified Wood
	unientation?	Y/N =	Forest Stewardship Council Certified Woo
Name of Document	Page #		meets the alternative compliance path (se
l I	rage #		Extended Producer Responsibility
See LEEDv4.1 credit requ	irement tabs for explanations of each credit	t option	Meets Extended Manufacturer Responsib
Joo ELEBYAN Grount legu	noment table for explanations of each creati	с орион.	Closed Loop or Take Back Program Name

Report Type	Reference Document(s) for the Optimization Report	Report Verification
Embodied Carbon/LCA Action Plan	Product-specific LCA or product- specific Type III EPD	Prepared by the manufacturer and signed by company executive
Reductions in Embodied Carbon: less than 10% reduction in GWP relative to baseline	Baseline: Product-specific LCA, Product-specific Type III EPD, or Industry-wide Type III EPD	
Reductions in Embodied Carbon: 10%+ reduction in GWP relative to baseline	Optimized: Product-specific LCA or product-specific Type III EPD	Comparative analysis is verified by an independent party
Reductions in Embodied Carbon:  20%+ reduction in GWP and 5%+ reduction in two additional impact categories, relative to		
baseline	Optimized: Product-specific LCA or product-specific Type III EPD	



### Option 2 - Embodied Carbon/LCA Optimization

- Independent verification of Reduction in GWP = <10%</li>
- 20% GWP with 5% reduction of the following **Impact Categories**:
  - o global warming potential (greenhouse gases), in CO2e;
  - o depletion of the stratospheric ozone layer, in kg CFC-11e;
  - o acidification of land and water sources, in moles H+ or kg SO2e;
  - o eutrophication, in kg nitrogen equivalent or kg phosphate equivalent;
  - o formation of tropospheric ozone, in kg NOx, kg O3 eq, or kg ethene;
  - depletion of nonrenewable energy resources, in MJ using CML / depletion of fossil fuels in TRACI.

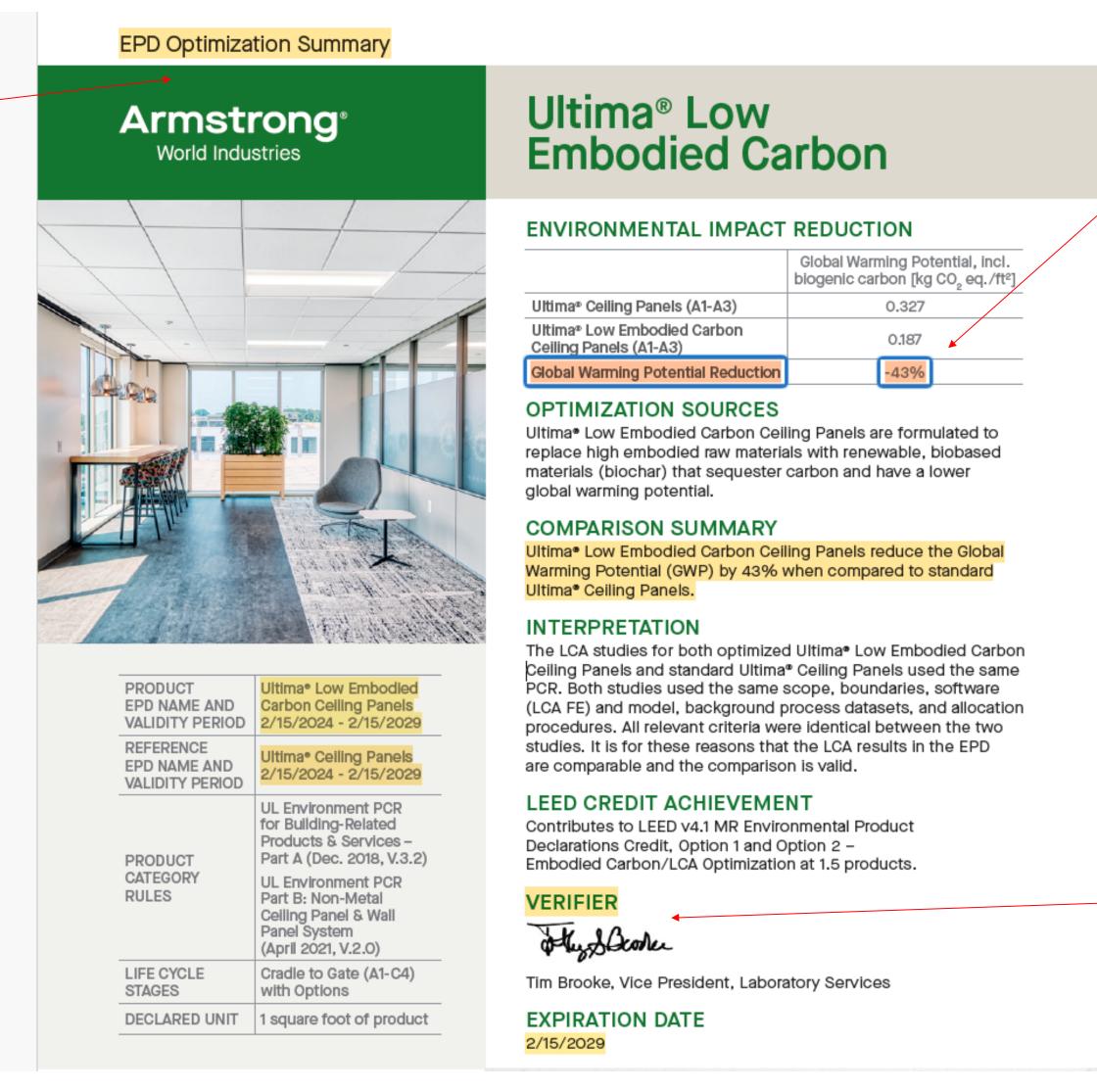


32% reduction in GWP and a reduction >5% in 4 Impact categories



### Embodied Carbon/LCA Optimization Example

Usually says "Optimized"



43% reduction in GWP.

Does not reference impact categories so this is Third Party verified impact reduction min. 10% reduction in GWP (1.5 Products)

Third Party Verified



### Sourcing of Raw Materials

MR Credit 3: Responsible So	ourcing of Raw Materia	ls*
-		
-> Cost of Material		
(Cost is required for this credit)	\$	
-> Regional Material (200% of cost contri		
	zip/postal code	
	zip/postal code	
Percentage both sourced within 100 mi	/160.9km	
<u>Material Reuse</u>		
Reused/salvaged material		
Recycled Content		
Post-consumer Recycled Cont.		
(consumer waste; end-of-life of product)		
Pre-consumer Recycled Cont.		
(Diverted from manufacturing process)		
B		
Biobased Material		
Testing & Sustainable Agriculture Network		
or Meets San's Basic Criteria (Testing Onl	y)	
FSC Certified Wood		
Forest Stewardship Council Certified Woo	d OR	
meets the alternative compliance path (se		
meete the diterrative compilative path (se	c mito tab)	
Extended Producer Responsibility		
Meets Extended Manufacturer Responsibi	lity criteria	
Closed Loop or Take Back Program Name		

Sourcing of Raw Material (SRM) Consist of 5 different Categories

Material Reuse
Recycled Content
Biobased Material
FSC Certified Wood
Extended Producer Responsibility

#### Notes

- Cost is required
- Percentage multiplied by Cost determines the score.
- Manufacture Location AND Extraction within a 100 miles doubles the score



### Recycled Content

If the Manufacturing Plant and Extraction location is within 100 miles, it doubles the points

Use the smaller amount

#### TABLE 1—RECYCLED CONTENT BY WEIGHT SUMMARY

PRODUCT NAME	PLANT		% POST-CONSUMER RECYCLED CONTENT	% IN-PROCESS RECYCLED CONTENT— TREATED <sup>2</sup>	% TOTAL RECYCLED CONTENT
Generic Stone Wool Insulation	Milton, ON	25 - 35	1 - 1.35	44 - 56.6	70 - 93¹

#### Notes:

- Post-consumer Materials that have served a useful purpose in the consumer market before being used again.
- Pre-consumer Process waste that is used to make a different product.

You can find it online, but the manufacture or the invoice will have the most up-to-date info. The invoice or manufacture also knows where it was manufactured and extracted.



<sup>&</sup>lt;sup>1</sup>The values represent the minimum and maximum range of available recycled content for the products. The actual recycled content amount for the products provided to the end user depends on the product formulation requested by the customer. ROCKWOOL will provide the customer the ROCKWOOL Recycled Content Calculator output with each order.

<sup>&</sup>lt;sup>2</sup>This category is considered pre-consumer recycled content as defined in EC101.

### FSC Certified Wood



FSC

seriores feet long.

FSC\* A000531

The mark of

responsible forestry

#### Reference **FSC Database**

NC-COC-031831

NC-CW-031831

FSC-C146241

**FSC License Code** 

SCS Global Services does hereby certify that an independent audit has been completed and conformity to the applicable standard(s) has been confirmed for:

#### Forest Products Certification Group, LLC, dba Renewable Resources Certification Group

PO Box 185, Shoreham, VT 05770, United States Cortfled Group Member:

Black Locust Lumber Global 2359 US Hwy 70 SE #228, Hickory NC 28602

This group certificate covers the production, distribution, and trade of lumber, doors, cabinetry, windows, plywood, moulding, flooring, paper, and printed material using the transfer and percentage systems. It also covers the purchase and sale of FSC Controlled Wood.

The facility's, are hereby Chain of Custody certified to sell products as:

#### FSC 100%, FSC Mix, FSC Recycled, FSC Controlled Wood

The assessment has been conducted by SCS Global Services in accordance with the protocols of the Forest. Stewardship Council® A.C. (FSO®).

FSC Standard: FSC STD 40 003 V2-1: FSC STD 40 004 V3-0: FSC STD 40 007 V2-0: FSC STD 50 001 V2-0

Certificate Code: SCS-COC-004377-AQ Trademark License Code: FSC-C113128

Remit To: ARC ITECTURAL WOODS LP PO BOX 2077 2312 KAME AME A WY WES TACOMA, WA 98401-2077 ONOLULU. II 96819- USA

DUTERED

BILL TO: OA: U WOODWORKING INC. 2045 LAUWILIWILI STREET

BUILDING#16, UNIT#1603

KAPOLEI / 1 96707

JUN 2 1 2018

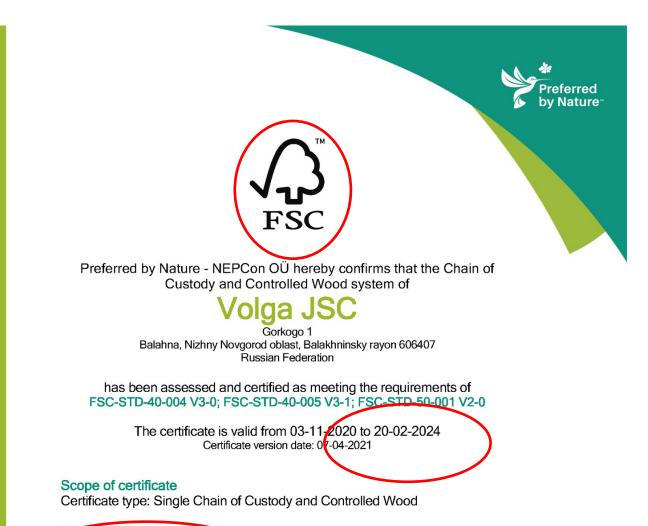
INVOICE ON00462307-001

> Account: OA: 7100 0001 Branch: FON Phone: (808)-454-0770 Fax: (808)-454-0772

Delivery: TA00462563-001 S IP TO: OA! U WOODWORKING INC 2045 LAUWILIWILI STREET BUILDING#16, UNIT#160 KAPOLEI II 96707

ORDER DATE:			ORDER TYPE: DIST ORDERED BY: JO: N PAUL ENTERED BY: Aul		VIA: Flat Rack	FRT TERM: De	stination
QTY	QTY SUPPED	UOM	ITEM/DESCRIPTION		CONVERTED	PRICE/UOM	AMOUNT
909	909	LF	NS0000048041 1-1/2 X 2-1/2 TEAK   ANDRAIL FSC FSC 100% RA-COC-002089 909/LF Content		909/LF	19.95/LF	18,134.55
181	181	LF	\$0000045042 -1/2 X 1-1/2-FEAK FULL ROUND FSC SC 100% A-COC-002089 81/LF Content		181/LF	14.95/LF	2,705.95
			SUBTOTAL				20,840.50
			TAX				104.62

Invoice with the certification on it. Sometimes the percentage is on the invoice and not the certification



Justinas Janulaitis

Specific information regarding products and sites is listed in the appendix(es) of this certificate. The validity and exact scope covered by this certificate shall always be verified at www.info.fsc.org.

FSC™ A000535 | The mark of responsible forestry | www.ic.fsc.org

This certificate itself does not constitute evidence that particular product supplied by the certificate holder is FSC™ certified [or FSC Controlled Wood]. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents. The physical printed certificate remains the property of NEPCon OÜ and shall be returned upon request.



### Legal Wood ACP

As an alternative to FSC certified you can apply use the Alternative Compliance Path (ACP) for Sourcing of Raw Material. It requires:

- All wood has to pass a basic screen for risk of illegal harvesting ("Legal"), and provide additional documentation if it isn't low risk; AND
- At least 70% (by cost) of the wood has to meet the ASTM's standard for "wood from responsible sources."

Program	Legal	Responsible	(Certified)
FSC - forest management via FSC chain of custody	Yes	Yes	Yes
<sub>2</sub> FSC - controlled wood	Yes	No	No
3SFI - forest management via SFI or PEFC chain of custody	Yes	Yes	Yes
<sub>4</sub> SFI - fiber sourcing	Yes	Yes	No
ATFS - forest management via SFI or PEFC chain of custody	Yes	Yes	Yes
CSA - forest management via SFI or PEFC chain of custody	Yes	Yes	Yes
PEFC - forest management via PEFC chain of custody	Yes	Yes	Yes
<sub>8</sub> PEFC - due diligence	Yes	No	No
, Not certified	No	No	No









To get points it must be <u>Legal</u>, <u>Responsible</u> AND <u>Certified</u>.

This means the wood must have Chain of Custody.



### Option 1 - Material Ingredients Reporting

	•
Material and Re	source (Select Only Applicable Cells)
MR Credit 2: Option 1 - EPD (E	nvironmental Product Declaration)
	Select One - EPD ▼
EPD Program Operator:	
MR Credit 2: Option 2 - Embod	lied Carbon/LCA Optimization*
mt oroant 21 option 2 2 2 mbos	Select One-Embodied Carbon/LCA Optimization ▼
MR Credit 4: Option 1 - Materia	al Ingredients (HPD, Declare, Cradle to Cradle)
Dana tha annual bassa thiad a anti-	Select One - Material Ingredient
Does the report have third-party	Select One - Material Ingredient
MR Credit 4: Option 2 - Materia	HPD: Healthy Product Declaration
	C2C: Cradle to Cradle MHC
GBCI "Docverification" ID (if a	C2C: v3+ with Material Health achievement level at Bronze+
General Note:	Declare
For MR Credit 2: Option 2 and Noroducts are sourced (extracted,	Olahal Casas Tasa
160.9km of the project site, they Supporting Documentation:	ANSI/BIFMA e3 Furniture Sustainability Standard
Did you provide the Supporting Docu	Facts
Name of Document	Living Product Challenge
See LEEDv4.1 credit requ	Product Lens
	Manufacturer Inventory
	None

Material Ingredient Reporting (MIR) demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm). It can be any of the following Certifications:

- ANSI/BIFMA e3 Furniture Sustainability
   Standard
- Cradle to Cradle (C2C)
- Declare.
- Facts
- Global Green TAG
- Health Product Declaration
- Living Product Challenge
- Manufacturer Inventory
- Product Lens Certification



### Option 1 - MIR Cert Requirements

ANSI/BIFMA e3 Furniture Sustainability Standard. The documentation from the assessor or scorecard from BIFMA must demonstrate the product earned at least 3 points under 7.5.1.3 Advanced Level in e3-2014 or 3 points under 7.4.1.3 Advanced Level in e3-2012.

Cradle to Cradle (C2C). Product has Material Health Certificate or is Cradle to Cradle Certified<sup>™</sup> under standard version 3 or later with a Material Health achievement level at the Bronze level or higher.

**Declare.** The Declare product label must meet the following requirements:

Declare labels designated as Red List Free, LBC Red List Free, or Declared.

Declare labels designated as LBC Red List Approved or LBC Compliant that demonstrate content inventory to 0.1% (1000 ppm).

**Facts** – NSF/ANSI 336: Sustainability Assessment for Commercial Furnishings Fabric at any certification level.

Global Green TAG PHD labels issued after January 1, 2020.

**Health Product Declaration.** The end use product has a published and complete Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration Open Standard.

**Living Product Challenge.** The included Declare product label must demonstrate content inventory to 0.1% (1000 ppm).

Manufacturer Inventory. The manufacturer has published complete content inventory for the product following these guidelines:

A publicly available inventory of all ingredients identified by name and Chemical Abstract Service Registration Number (CASRN) and/or European Community Number (EC Number).

\*Greenscreen List Translator (LT) score and/or Full GreenScreen Benchmark (BM)

\*The Globally Harmonized System of Classification and Labeling of Chemicals rev.6 (2015) (GHS)

\*The hazard screen must be applied to each trade secret ingredient and the inventory lists the hazard category for each of the health hazards included in Part 3 of GHS (e.g. "GHS Category 2 Carcinogen").

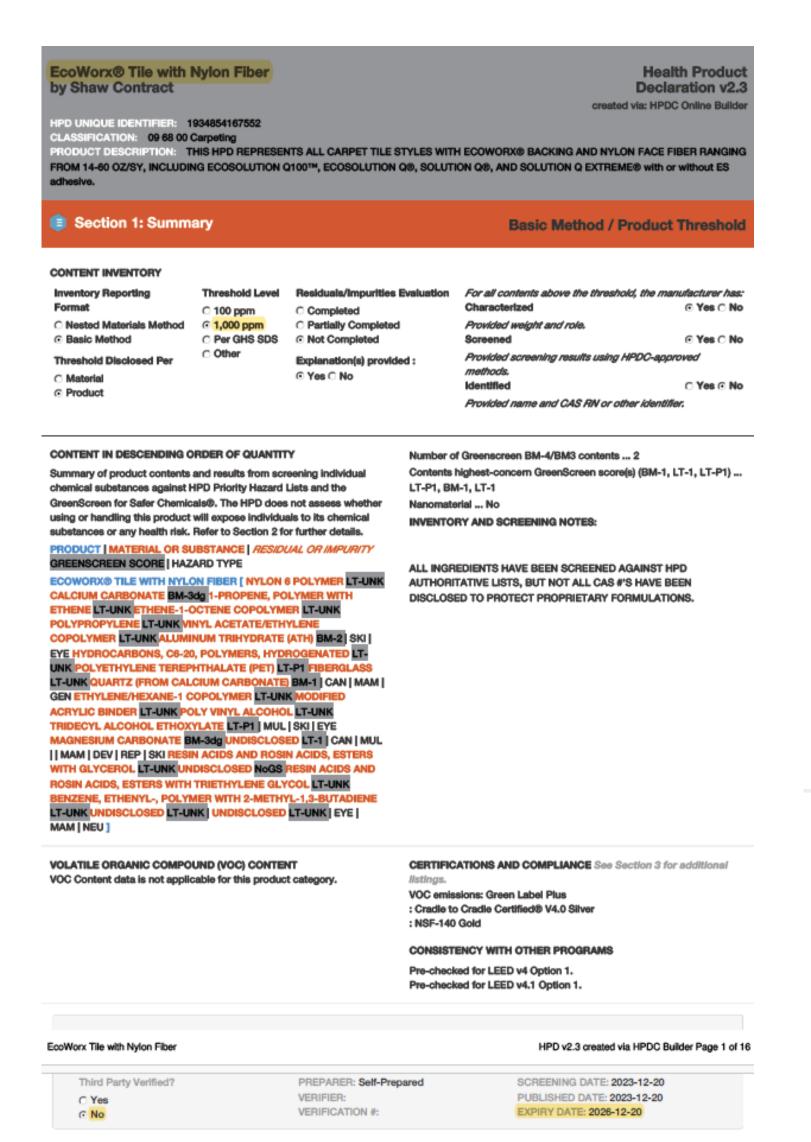
#### **Product Lens Certification**

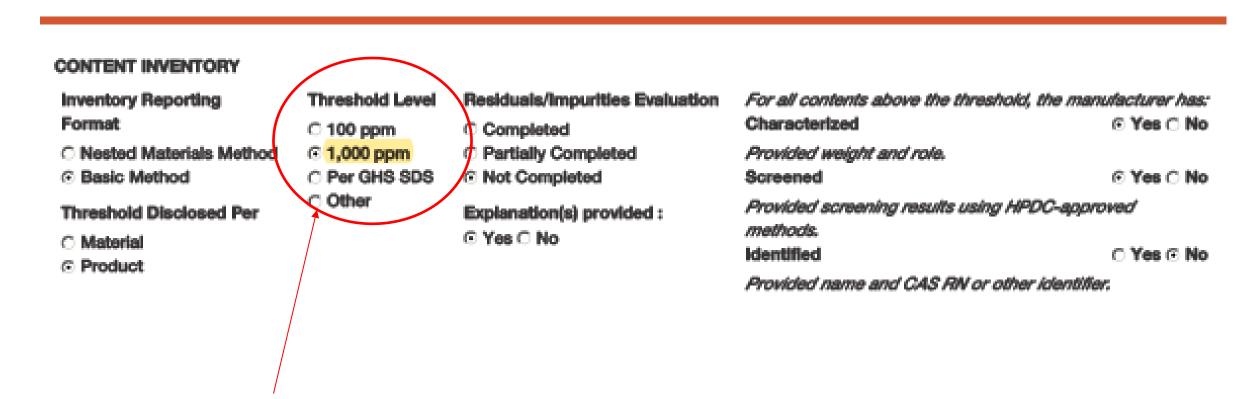
Any compliant reports above with third-party verification that includes the verification of content inventory are worth 1.5 products for credit achievement calculations.



#### MIR Common Examples - Health Product Declaration (HPD)

#### Reference - HPDRepository





Parts Per Million Threshold

Third Party Verified?
C Yes
VERIFIER:
VERIFICATION #:

Thermafiber RainBarrier Continuous Mineral Wool Insulation
hpdrepository.hpd-collaborative.org

PREPARER: Self-Prepared
VERIFICATION #:

PUBLISHED DATE: 2022-04-22
EXPIRY DATE: 2025-04-21

HPD v2.2 created via HPDC Builder Page 1 of 8

I to officence for EEED 47 material highesterite option i



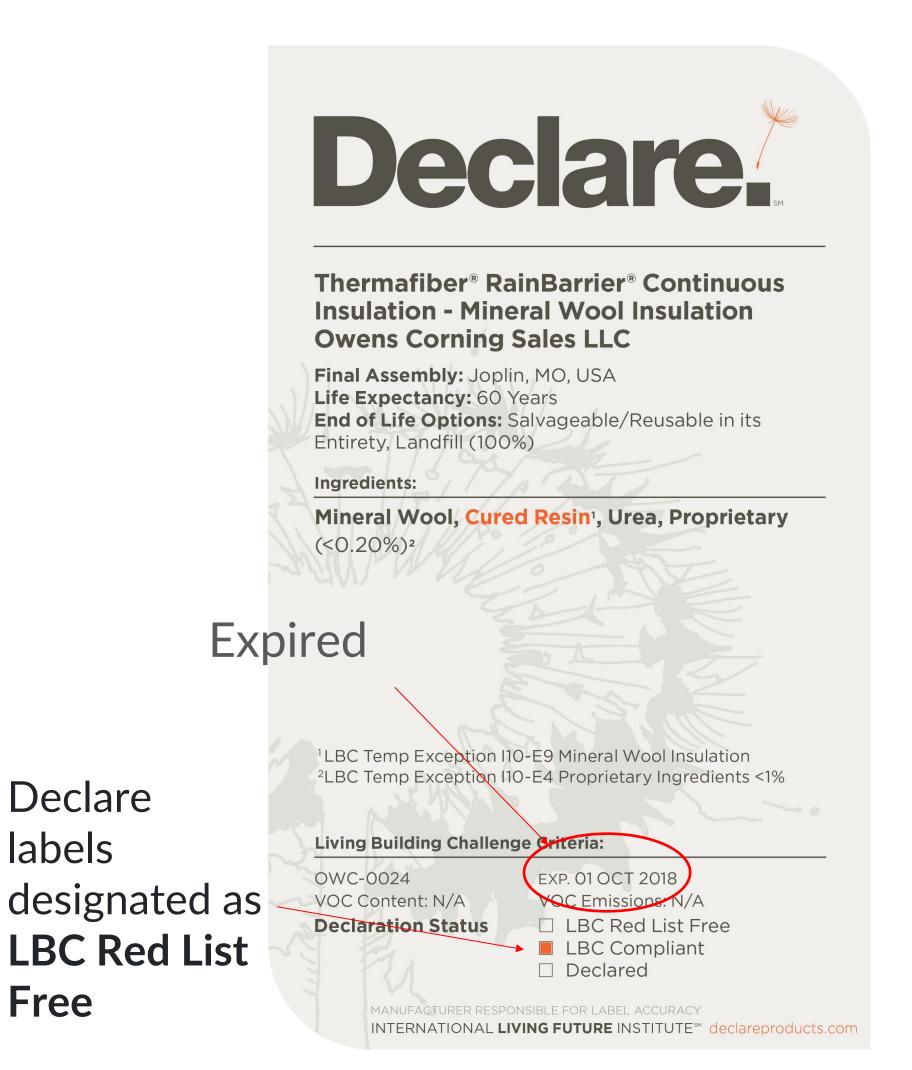


### MIR Common Examples - Declare

Reference Declare Database

Declare labels designated as **Red List Free**.

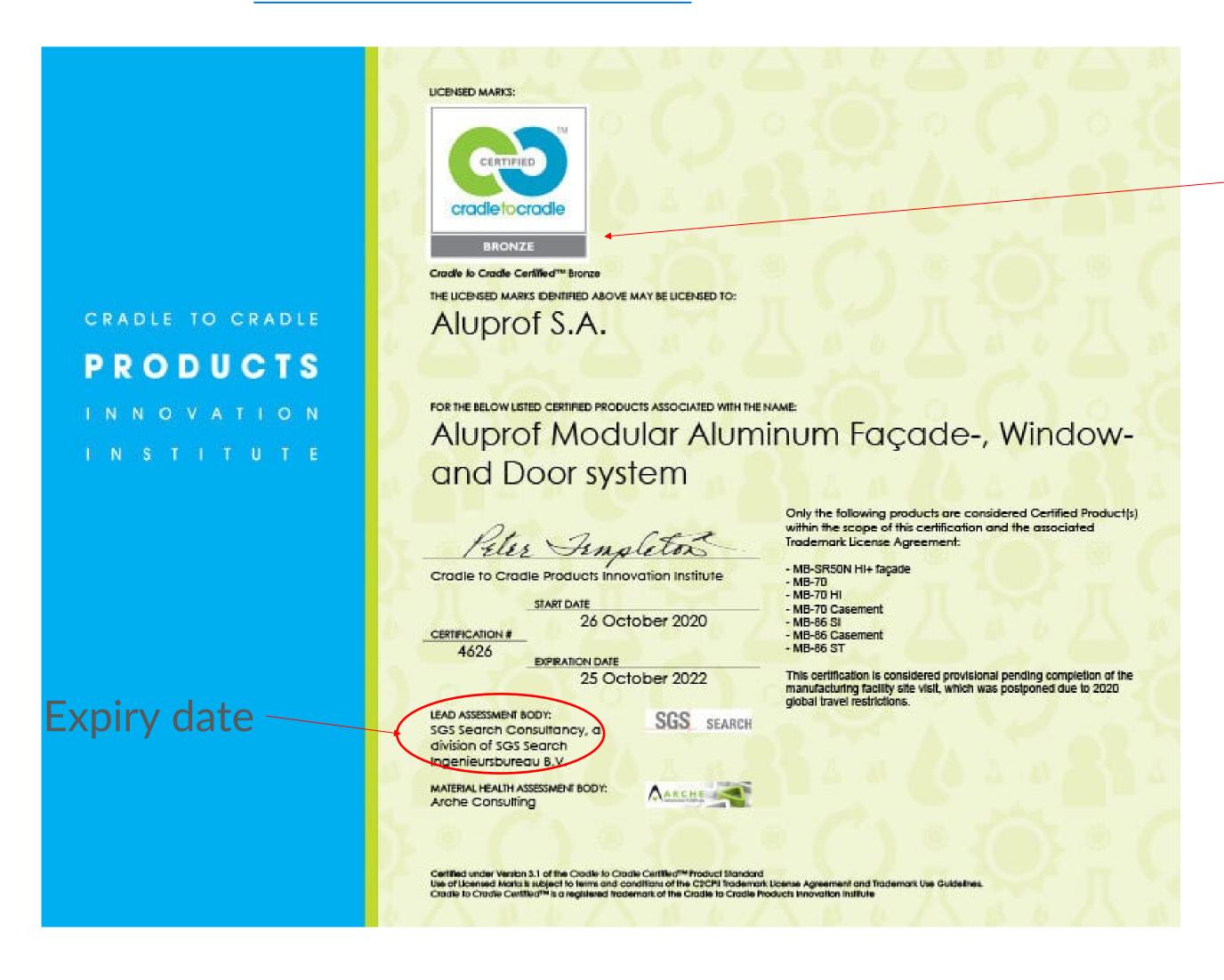






### MIR Common Examples - Cradle to Gate

Reference - Cradle to Cradle Database

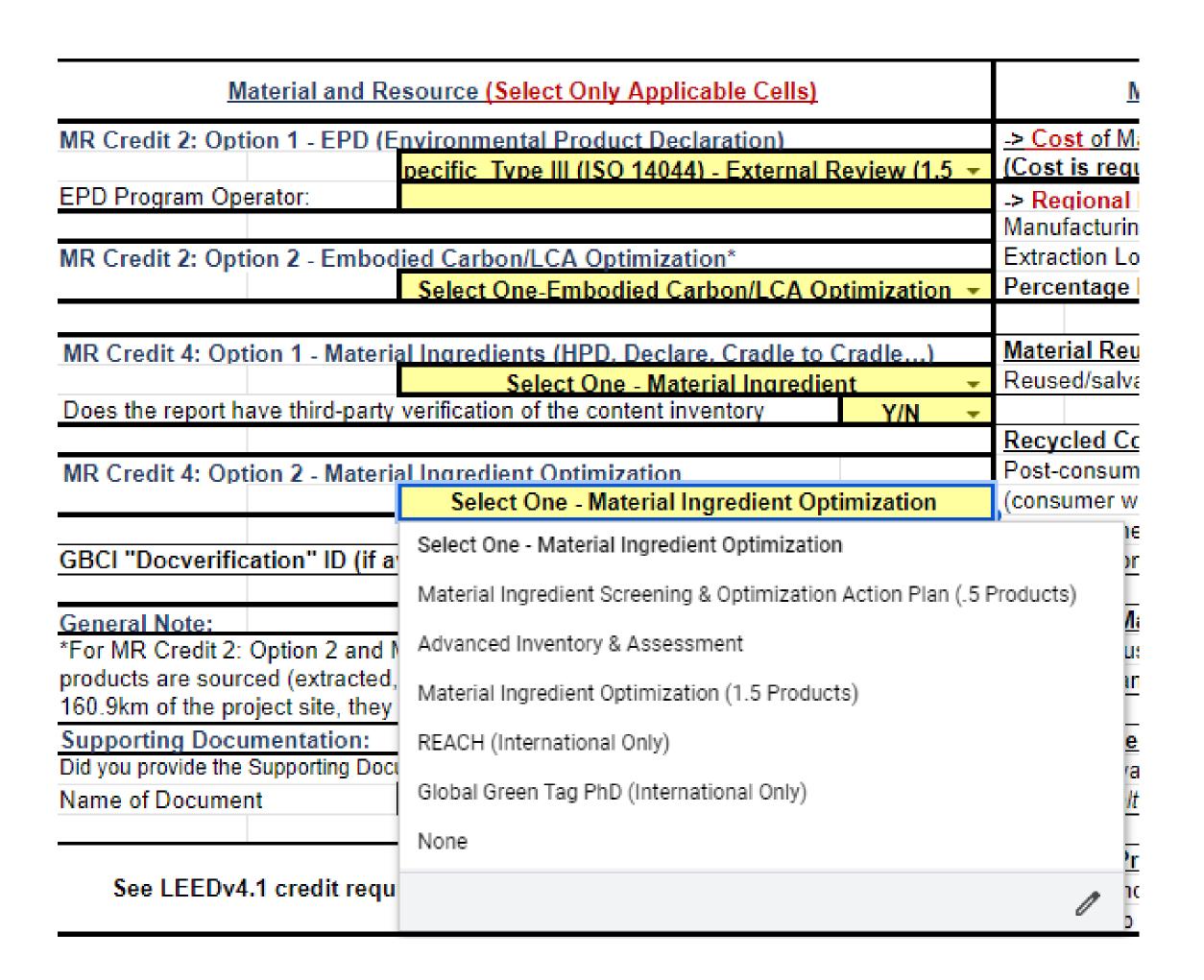


Certification and Level

Describes the full cycle of a material from extraction to end of use and then back into the product.



### Option 2 - Material Ingredient Optimization



Option 2 - Material Ingredient Optimization (MIO) is complicated and as of 2024 there are only a handful of manufacturers applying for this certification. There are three types of certification LEED is looking for:

- Material Ingredient Screening and Optimization Action Plan
- Advanced Inventory & Assessment
- Material Ingredient Optimization



### Option 2 - MIO Requirements

Option 2 must meet:

Report Type & Criteria	Product Documentation
Material Ingredient Screening and Optimization Action Plan	Action Plan based on publicly available material inventory to at least 1,000ppm.
Advanced Inventory & Assessment: Inventory to at least 0.01% by weight (100 ppm) and no GreenScreen LT-1 hazards or GHS Category 1 hazards are present. Third-party Verified  Or  Inventory to at least 0.01% by weight (100ppm) and at least 75% by weight of product is assessed using GreenScreen. The remaining 25% by weight of product has been inventoried and the GreenScreen assessment is publicly available. Third-party Verified	<ul> <li>Cradle to Cradle Certified or Material Health Certificate at Bronze level or higher.</li> <li>Declare labels designated as Red List Free or LBC Red List Free.</li> <li>Green Seal. Products certified under the Standard for Paints, Coatings, Stains and Sealers (GS-11, Edition 4.0) that do not include GHS Reproductive toxins (categories 1 and 2).</li> <li>Health Product Declaration that meet optimization and verification criteria.</li> <li>Living Product Challenge certified products that include a Red List Free or LBC Red List Free Declare label.</li> <li>Manufacturer Inventory that meet optimization and verification criteria.</li> </ul>
Material Ingredient Optimization: Inventory to at least 0.01% by weight (100 ppm) and at least 95% by weight of product is assessed using GreenScreen. No BM-1 hazards are present. The remaining 5% not assessed has been inventoried and screened using GreenScreen List Translator and no GreenScreen LT-1 hazards are present. Third-party Verified	<ul> <li>Cradle to Cradle Certified or Material Health Certificate at Silver level or higher.</li> <li>Health Product Declaration that meet optimization and verification criteria.</li> <li>Living Product Challenge certified products that achieve Imperative 09: Transparent Material Health.</li> <li>Manufacturer Inventory that meet optimization and verification criteria.</li> </ul>
International Alternative Compliance Path: Available to projects located outside of the US*	<ul> <li>REACH Optimization:</li> <li>Material Inventory to 100ppm with no substances found on the Authorization List – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list.         OR</li> <li>Global Green TAG PHD report.</li> </ul>



### Option 2 - MIO Simplified



#### **Flooring**

- Shaw Ecoworx Tiles: Mohawk, or Milliken, Shaw adhesive
- Cradle to Cradle or Material Health: XL Brands, Tarkett, Forbo, Shaw, Armstrong,
- Tarkett Baseworks Wall Base
- Rubber Flooring: Tarkett or Nora

#### Ceilings

- Armstrong Prelude System: Ultima+ and Perla acoustical ceiling tiles.
- Kawneer Curtainwall: For exterior walls.
- Construction Specialties Louvers and Entrance Systems: walls and entrances.

#### Other Options

- **Nucor Rebar:** A sustainable choice for structural reinforcement.
- Additional Flooring: Explore other flooring options if needed, especially for mechanical rooms.



### Option 2 - MIO Examples

#### Sample of a Compliant

#### **Material Ingredient Optimization**

#### **Action Plan**

#### for LEED version 4.1 credit:

Material Ingredients, Option 2 (BD+C and ID+C rating systems)

Note: This sample Action Plan is fictitious and is intended for illustrative purposes only. The information and analysis results shown herein do not represent any real company, manufacturer or product line.

Sample of a Material Ingredient Screening and Optimization Action Plan Report

#### Summary Table: BCD Action Plan #1001A

Document ID or report number	BCD Action Plan Product #123
Manufacturer	BCD Gypsum Company
Contact info of	John Doe,
organizational	John.Doe@SAMPLEABC.com
representative responsible	
for implementation and	
success of the plan	
Product Name	BCD Product 123 (Gypsum Finishing Compound)
Product Lines/Series	BCD Product 123x, BCD Product 123yz, BCD Product 123-b43, BCD Product
Covered by the Action Plan	123-c54, BCD Product 123 Pro
Product Type	Commercial Building Product
Product Description or Role	Gypsum finishing product used for commercial installation
Describe the hazard	The product was screened against GHS, Green Screen, and HPDC v2.1
assessment platform used	Priority Hazard and Warning List.
for the material ingredient	
disclosure report	
Disclosure Threshold for the	1,000 ppm 100 ppm
Action Plan assessment	
Is the action plan third party	Yes No
verified and does the	
verification include third	
party review of content	
inventory? (Optional)	

#### Sample of a Compliant

#### **Material Ingredient Optimization**

#### **Action Plan**

for LEED version 4.1 credit: Material Ingredients, Option 2 (BD+C and ID+C ra

Note: This sample Action Plan is fictitious and is intended for illustrative pur and analysis results shown herein do not represent any real company, man

Sample of a Material Ingredient Screening and Optimization

Summary Table: BCD Action Plan #1001A

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for the material ingredient	
disclosure report	
Disclosure Threshold for the	1,000 ppm 100 ppm
Action Plan assessment	
Is the action plan third party	Yes No
verified and does the	
verification include third	
party review of content	
inventory? (Optional)	

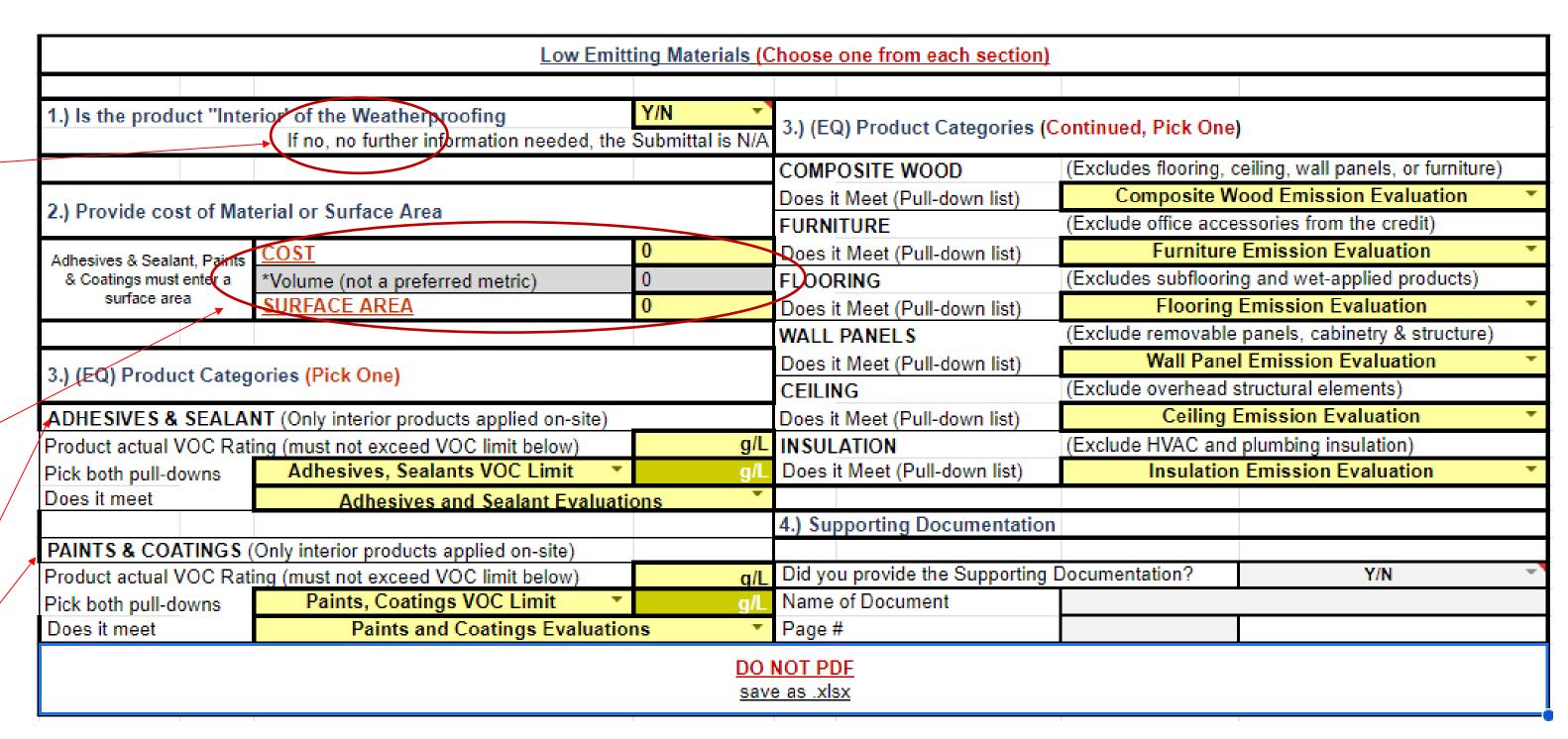


#### **Low-Emitting Materials**

If a product is not within the weatherproofing a IEQ SMDS sheet is not needed

Cost/Volume/Surface area is pre-determined by the LEED Coordinator. IT IS REQUIRED and it can be estimated

Adhesives and Paints always require SF, not cost



Plan ahead, how you are going to break up the cost for your product?

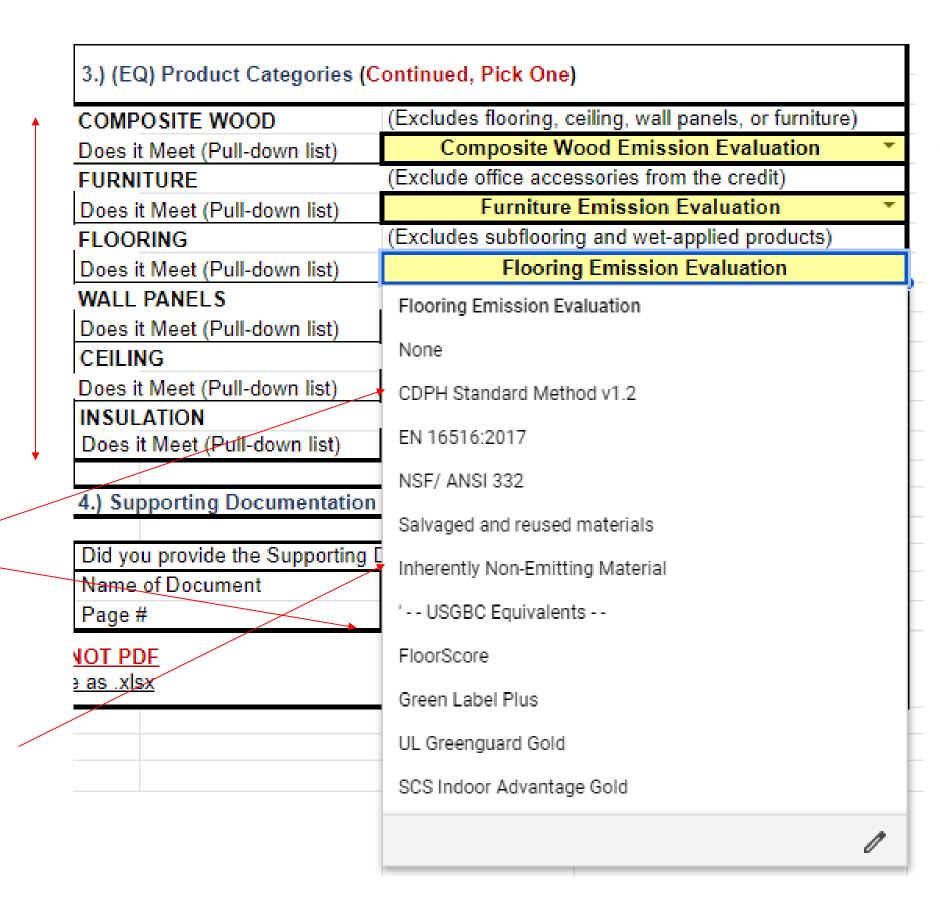


#### **Low-Emitting Emission Evaluations**

Each category has their own Emission Evaluation. You can see the Evaluations methods allowed on the SMDS sheet pull down menus.

We break up the Emission Evaluation by the Standards and common Certifications.

Inherently non-emitting: stone, ceramic, powder-coated metals, plated or anodized metal, glass, concrete, clay brick, and unfinished or untreated solid wood. It has no binders, surface coatings, or sealants that include organic chemicals.











**IEQ** Evaluation



#### **Low-Emitting Emission Evaluations**

SCS Global Services does hereby certify that an independent assessment has been conducted on behalf of:

#### **Mohawk Industries**

508 East Morris Street, Dalton, GA, United States

For the following product(s):

See Addendum

The product(s) meet(s) all of the necessary qualifications to be certified for the following claim(s

#### FloorScore®

Indoor Air Quality Certified to SCS-EC10.3-2014 v4.

Conforms to the CDPH/EILLB Standard Method v1.2-2017 (California Section 01350), effective April 1, 2017, for the school classroom and private office parameters when modeled as Flooring.

Measured Concentration of Total Volatile Organic Compounds (TVOC). Less than/equal to 0.5 mg/m³ (in dompliance with CDPH/EHLB Standard Method v1.2-2017)

Registration # SCS-FS-03732

Valid from: December 1, 2021 to November 30, 2022

SCS Global Services is currently the only certification body approved by the Resilient Floor Covering Institute (RFCI) to provide FloorScore® product certification; certified products are only listed on the SCS Green Products Guide, http://www.scsglobalservic.com/certified-green-products-guide.





expired



Stanley Mathuram, PE, Executive Vice President
SCS Global Services
2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA

Floor Score is the Certifier

Standard used: Standard Method v1.2-2017

TVOC level < .5 mg/m² within the TVOC ranges: 0.5 mg/m³ or less, between 0.5 and 5 mg/m³, or 5 mg/m³ or more



#### **Common Low-Emitting Emission Evaluations**











UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.

GreenGuard Gold Database

Wall finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using a Classroom Environment with an air change of 0.82 h 94.60 m².; and Wall finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using an Office Environment with an air change of 0.82 high control of the co

Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2

CRI Green Label Plus Database

SCS Indoor Advantage Gold Database



#### **Low-Emitting Certification Examples**



**Reference Standard:** California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017 (Emission testing method for CA Specification 01350)

#### Acceptance Criteria and Results Demonstrating Compliance of Product Sample to Referenced Standard:

Exposure Scenario <sup>1</sup>	Individual VOCs of Concern <sup>2</sup>		Formalo	TVOC <sup>4</sup>	
	Criterion	Compliant?	Criterion	Compliant?	Range
School Classroom	≤½ Chronic REL	YES	≤9.0 μg/m³	YES	≤ 0.5 mg/m³
Private Office	≤½ Chronic REL	YES	≤9.0 μg/m³	YES	≤ 0.5 mg/m³

#### **Product Coverage<sup>5</sup>:** 18.9 g/in<sup>3</sup>

- 1. Exposure scenarios & product quantities for classroom & office are defined in Tables 4-2 4-5 (CDPH Std. Mtd. V1.2-2017)
- 2. Maximum allowable concentrations of individual target VOCs are specified in Table 4-1 (ibid.)
- 3. Maximum allowable formaldehyde concentration is  $\leq 9 \,\mu \text{g/m}^3$ , effective Jan 1, 2012; previous limit was  $\leq 16.5 \,\mu \text{g/m}^3$  (ibid.)
- 4. Informative only; predicted TVOC Range in three categories, i.e., ≤0.5 mg/m³, >0.5 4.9 mg/m³, and ≥5.0 mg/m³
- 5. Informative and applicable only to tests of wet-applied products; grams of sample applied per square meter of substrate

#### Standards & Codes Recognizing CDPH Standard Method V1.2 (partial list)

COMMERCE THAT MAY BE BASED ON THIS TEST. BERKELEY ANALYTICAL PROVIDES THIS CERTIFICATE OF COMPLIANCE "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.

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#### **Safety Data Sheet**

SDS No. SST-6422-060220

Conforms to HazCom 2012/U.S.

#### Section 1: IDENTIFICATION

Product Name(s):

Performance Grade Asphalt Binder(s)

Product Identifiers: Asphalt Cement; Asphalt Binder; PG 58-22; PG 58-28; PG 64-22; PG 64-28; PG 70-22; PG 70-28; 76-22; 88-22; Asphalt Flux; AC-10; AC-20; AC-30; AC-40;

Manufacturer: and/or Marketer: S&S Terminal, Inc. 1731 Old State Route #7 P.O. Box 66 Rayland. Ohio 43943

Information Telephone Number: 1-740-859-2131 (8am to 5pm EST)

For Chemical Emergency ONLY: (spill, leak, fire, exposure or accident)

CHEMTREC 1-800-424-9300 24 HOURS / 7 Days

Product Use:

Asphalt sement is used in HMA for paving roads, driveways, parking lots, school yards,

and other surface, base, or sub-base applications.

Note:

This MSDS covers many types of Asphalt cement. Individual composition of hazardous

constituents will vary between asphalt cement grades

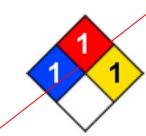
#### Section 2: HAZARD(S) IDENTIFICATION

Hazard Classifications:

Category 2, Health Hazard. Skin Irritation Category 1, Health Hazard. Skin Sensitization

Category 2, Health Hazard. Eye Irritation
Category 2, Health Hazard. Carcinogenicity / Inhalation

Category 4, Fire Hazard. Ignitability at Elevated Temperatures Special Hazard: Elevated Temperature > 280° F (137.8° C)



WARNING





Hazard Statements:

Hot Product will cause SEVERE THERMAL BURNS!

May produce Hydrogen Sulfide Gas at Elevated Temperatures

May cause skin Irritation

May cause eye Irritation

May cause allergic skin reactions.

May cause eye Irritation.

Possibly carcinogenic to humans.

Is not tested to a recognized standard



#### **Low-Emitting Materials**

Self-priming on most

Provides a mildew

resistant coating



#### Feature

- Excellent hide
- Excellent durability
- Easy application
   Zero VOC, low odor
- Zeio VOC, low odol
- Premium flow and leveling

#### Recommended For

Ideal for interior trim, doors, cabinets, walls, and new or coated acoustic ceilings. For new or previously painted wallboard, plaster, masonry, and primed or previously painted wood and metal

#### REGAL® SELECT PREMIUM INTERIOR PAINT & PRIMER PEARL 550

#### **General Description**

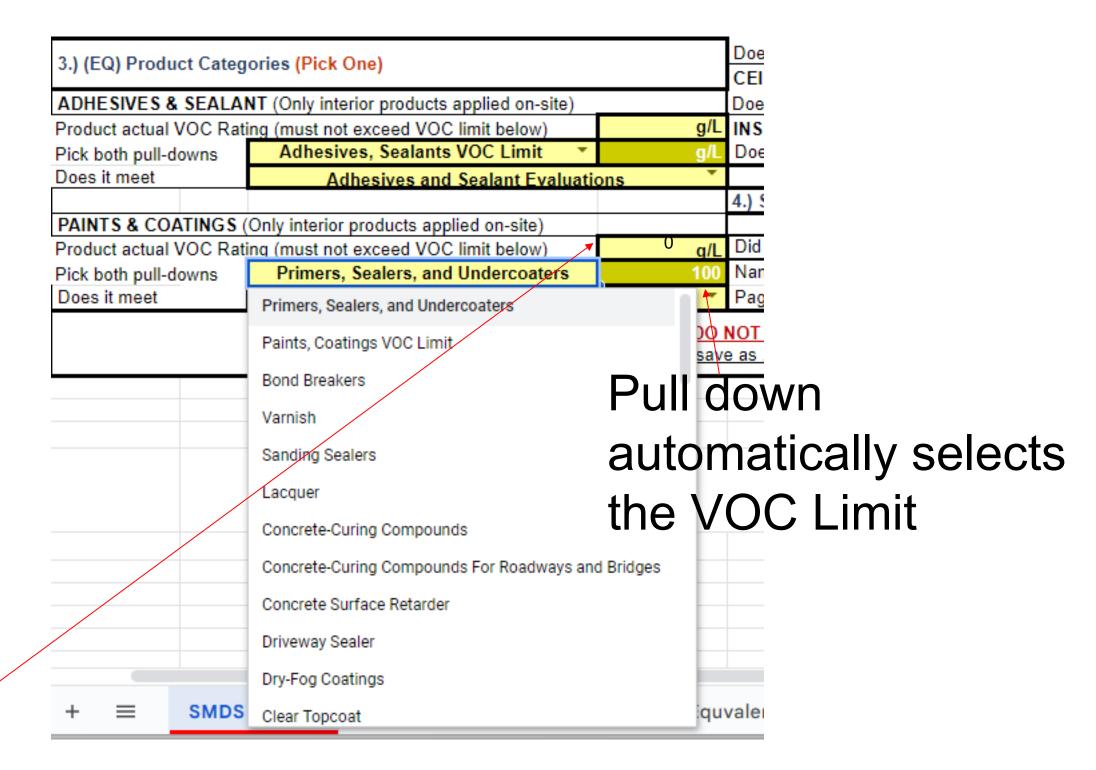
A premium quality, easy to use, durable and washable pearl finish. Beautiful finish for trim and accents. Ideal for surfaces subject to abuse and soil such as corridors, stairwells, cafeterias, locker rooms, laboratories, etc. Easy to apply by brush, roller, or spray gun. Excellent hiding and leveling properties. Self-priming on most substrates.

#### Limitation

 Do not apply when air and surface temperatures are below 50 °F (10 °C)

Product Information Colors — Standard:			Technical Data◊		Pastel Base	
White (01)			Vehicle Type	Proprietary 100	0% Acrylic Late	
— Tint Bases:			Pigment Type		Fitanium Dioxide	
Benjamin Moore® Gennex® Bases 1X, 2X, 3X, & 4X			Volume Solids	s 40.5%		
— Special Colors:			Coverage per Gallon at Recommended Film Thickness 400 – 450 Sq. Ft			
Contact your Benjamin Moore* representative.			Recommended Film	– Wet	3.8 mil:	
	& Qualification			Thickness	– Dry	1.5 mil
VOC compliant in all regulated areas  Zero VOC according to EPA Method 24  Class A (0-25) over non-combustible surfaces when tested in accordance with			Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.			
ASTM E-84  Master Painter Institute MPI # 43, 43 X-Green™, 140 and 140 X-Green™  Anti-microbial - This product contains antimicrobial additives that inhibit the growth of mold and mildew on the surface of the paint film.				50% RH — To Recoat 1-2 Hours urfaces can be washed after two weeks idity and cool temperatures will result in		
Benjamin Moore's Green Promise® designation is our company's assurance that this product meets – and often exceeds – rigorous environmental and performance criteria regarding VOCs, emissions, application, washability, scrubbability and packaging, while also delivering the premium levels of performance you expect from Benjamin Moore's		Dries By Viscosity Flash Point Gloss / Sheen	Evaporation, Coalescend 100 ± 2 K Nor Pearl (15 – 25 @ 60			
	oublished chemical rest	Qualifies for CHPS low emitting credit (Collaborative for High Performance Schools)  YES ed by independent third criction and performance		Surface Temperature at Application Thin With Clean Up Thinner Weight Per Gallon Storage Temperature	– Min. – Max – Min.	50 °l 90 °l See Char Clean Wate 11.2 lbs
Technical Assistance:  Available through your local authorized independent Benjamin Moore® retailer.  For the location of the retailer nearest you, call 1-866-708-9180, see <a href="https://www.benjaminmoore.com">www.benjaminmoore.com</a> , or consult your local Yellow Pages.			Volatile Organic Compounds (VOC)  0 g/L  Zero VOC post tint (any base and any color)  OReported values are for Pastel Base. Contact Benjamin Moore			

VOC content





### References

https://transparencycatalog.com/	MR 2-4
https://giga-auth.com/equinox-identity/login	MR 2-4 & IEQ
https://buildingclean.org/	IEQ
https://www.c2ccertified.org/	C2C
https://www.hpd-collaborative.org/	HPD
https://declare.living-future.org/	Declare
https://leeduser.buildinggreen.com/	Questions
https://bettermaterials.gbci.org/	Most Certificates
https://www.compositepanel.org/product-finder/?parent-category=126 -	Composite Wood
https://www.apawood.org/plywood	Plywood
https://app.powerbi.com/view?r=eyJrljoiN2U3NGMyNWEtZTAxNS00MzVhLW ExNmMtOThhZjdiYjQ4MWNkliwidCl6ljEyNGU2OWRiLWVmNjUtNDk2Yi05Nm E5LTVkNTZiZWMxZDI5MSIsImMiOjl9	FSC Certified Wood
Manufacture Website sometimes has LEED documentation	Most Certificates









# GREENCANARY

We make green building attainable for all