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Introduction

It wouldn't be a day ending in "Y" if someone at Green Badger didn't have a conversation with a project team that resulted in the exasperated question of "What the F@%K do I need to do to earn this credit?"



We do our best to help them figure it out by consistently engaging with teams across the country, diligently reviewing quarterly updates, addendums, CIRs (because what's the point of creating a set of rules/standards if you're not going to change them every three months), and venting/raging/problem-solving with peer groups who feel the same frustrations as the rest of us.



While we could rant daily about the many "fun challenges" that come with earning LEED certification (I think Dante wrote about dealing with LEED review comments at some point), we're taking the high road. We strive to be solution providers, and firmly believe in our motto of "Sustainability Simplified".

We believe that people want to do the right thing – they just want to know what it is, without having to slog through and figure out what to do. While this might be an overly general statement for everything in life, it tends to hold true in LEED.

Don't make me guess what paint/drywall/pipe complies. Just tell me which ones to use that earn the credit! And I think USGBC hears that.

Their effort to pre-approve products to let teams know they are compliant may help (and I know manufacturers have been begging to pay for yet another certification!). And if so, hopefully, it comes sooner rather than later.

In the meantime, we've created a guide to help teams plan a strategy to earn two of the Building Product Disclosure and Optimization credits for v4 and v4.1 - Environmental Product Declarations and Material Ingredient Reporting.

These two credits are chased on nearly every project we see (and we work with hundreds of project teams), yet they quite often pose a challenge to earn.

An update from our 2020 release, we're INCLUDING EPD and MIR Options 2 - which are now achieveable with proper planning (and sometimes dumb luck!).

There's still not a ton, but we've seen 80+ products with EPD Option 2 documentation, and while a few hundred now existing for MIR Option 2. There still seems to be quite the learning curve for manufacturers and teams have to go through to demonstrate compliance (getting USGBC review comments on a manufacturer inventory isn't something we can do much about.)

Sourcing of Raw materials really comes down to recycled content and FSC wood, and, especially with the updates for v4.1) is pretty straightforward. Due to Federal procurement requirements, Biobased is growing in importance (but only valued at 50% by LEED, so maybe less important). But EPDs and MIR? We see too much finger pointing.



The general contractor gets a generic spec that says "Obtain EPDs where available," but no strategy/guidance of where to look, or a spec that calls for a product with an HPD but it costs 20% more.

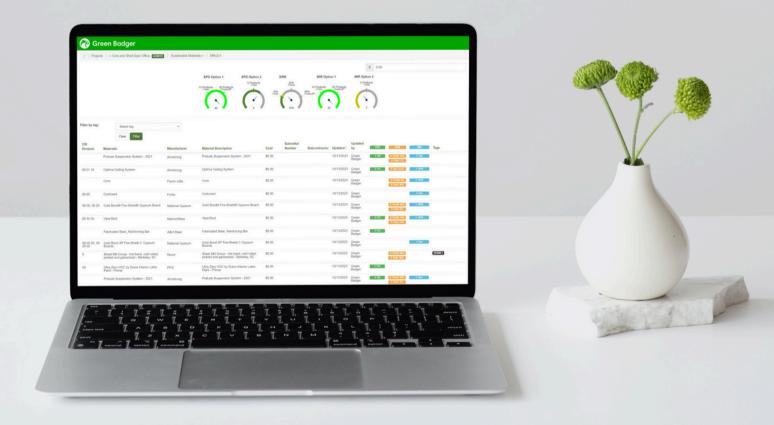
That's where this guide comes in. It's a starting point for where to most easily and readily find products that meet the requirements for EPDs and MIR.

This is NOT a comprehensive list of every single product that has LEED compliant documentation. Go spend a few hundred hours going product by product through all the various databases out there if you want that.

About This Guide

What this guide provides is a framework of the product categories that we at Green Badger see the broadest number of manufacturers and product lines with EPDs, HPDs, Cradle to Cradle certifications, Declare labels and anything else you need to earn those two credits.

Use it as a starting point. Hopefully you can find your 20 products in these few categories quickly and easily and get on with your life. The alternative involves scouring databases, reading through 500 page submittals, and earning a PhD in chemistry to determine if a product will help you earn your certification.



Precursor

A quick note before we get started - and by now, I really hope you know the answer to this question. Do you know the differences between LEED v4 and LEED v4.1, at least for the construction credits? Yes? Great! Collect \$200, please pass go, and jump to page 8! You didn't know v4.1 existed? Okay... here's what you need to know.

Green Badger unequivocally recommends that each and every project team opt into LEED v4.1 for the <u>BPDO Credits</u> (and <u>low-emitting materials</u>, but that's not what this guide is covering). Don't argue with the team, don't wonder if you can. Just do it. Life will be so much easier for you! Yea, yea, yea - USGBC dropped the term BPDO just like they dropped credit numbers, but guess what, everyone (including me) still calls the the BPDO credits and MRc2.









For those who don't want to take a Badger at their word, here's the quick breakdown of why you should immediately opt into v4.1 with a short Q+A.

Question: My project is registered as LEED v4. Can I use v4.1?

Answer: YES! Any LEED v4 project can opt into v4.1 on a credit by credit basis – no questions asked! You are eligible – the Badger guarantees it! It is not for the whole project. It is on a credit by credit basis, so if you only want to do it for the BPDO and Low Emitting Credits, you can.

Question: My project is registered as LEED v4.1. Can I use v4.1?

Answer: STFU

Question: What makes v4.1 better for the materials credits?

Answer: The Badger will make this as short and sweet as possible. For a more detailed answer, go to getgreenbadger.com/resources and check out the whole section dedicated to v4.1 updates.

<u>One</u>: Lower thresholds for certain project types. If your project is Commercial Interiors, Core and Shell, or Warehouse, the threshold for earning EPD and MIR Option 1 drops from 20 products to 10 products - its 50% easier to get!

<u>Two</u>: Most EPDs count for more. By far and away, most EPDs we see are Product Specific Externally reviewed products. This counted as 1 product under v4, but under v4.1, third-party externally review products count as 1.5 for both EPD and MIR. That means you really only need 14 products, rather than 20 which is a 30% reduction in the number of compliant products necessary for credit achievement.

<u>Three</u>: Sourcing of Raw Materials is much easier - we're not discussing strategies for this credit, but two big changes.

- 1. The threshold dropped from 25% to 15% making it much easier to achieve. A second point is available at 30% as well.
- 2. The structure/enclosure cap went away. That means no limitations on structural steel, rebar, concrete, etc that crippled project teams in v4.

<u>Four</u>: The calculators are awesome and super user-friendly! Just kidding, the calculators are still a nightmare of Excel crap that I couldn't imagine having to use on a day to day basis. So there you go - use v4.1. Thresholds are lower across the board, and you need fewer compliant products.



EBOOK

MRc3: Sourcing of Raw Materials

It is a streamlined, more achievable version of the LEED v4 credit.



EBOOK

MRc2 Option 1: Environmental Product Declarations

Environmental product declarations used to be rare as an albino jackalope, but these days there are a lot of options across the spectrum.

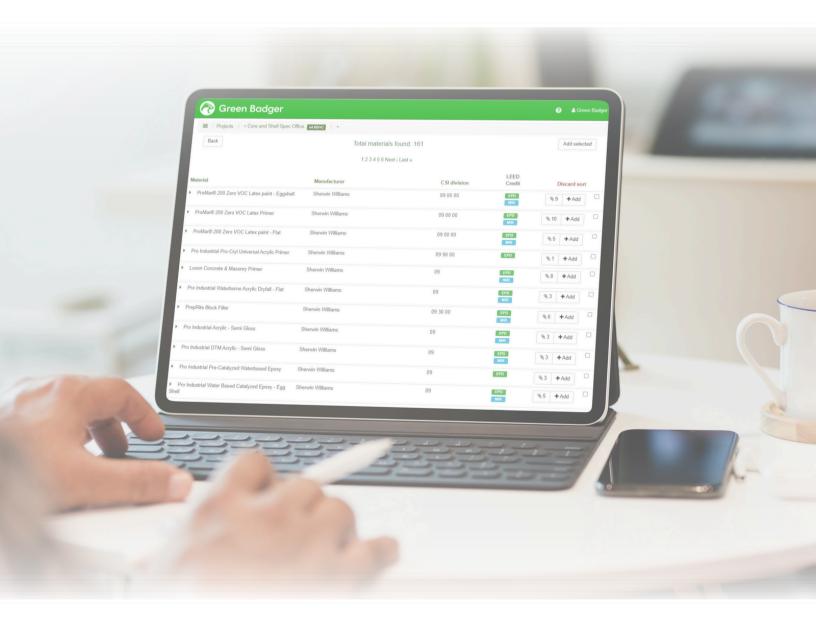
CLICK HERE TO DOWNLOAD

CLICK HERE TO DOWNLOAD

What Makes Products Compliant with LEED v4 and v4.1?

This guide is addressing four LEED credits: Environmental Product Declarations, Options 1 & 2, and Material Ingredient Reporting, Options 1 & 2.

For Option 1 for each credit, you need a total of 20 products that have an EPD or ingredient reporting to earn each credit (using v4.1, 10 if your project is Commercial Interiors, Core & Shell, or Warehouse) and some products count more than others.



Environmental Product Declarations

Environmental product declarations are independently verified reports based on life-cycle assessment (LCA) studies. The LCA studies must have been conducted according to a set of common rules ("product category rules," or PCRs) for each product category and then peer-reviewed.

EPDs are managed and created by "program operators" — organizations that ensure that the EPDs meet the various requirements. In the U.S. you'll see those from UL, SCS, ASTM or NSF, though there are a few other that are coming around.

Broadly speaking, there are 3 main types of EPDs that we come across:

- Industry Wide
- Product Specific Type III, Internally Reviewed
- Product Specific Type III, Externally Reviewed

What's the difference?

Industry wide EPDs are generic for certain product types of products such as Type X gypsum board or concrete. For LEED v4, it doesn't really matter who the manufacture is as long as the are a member of the association that generated the EPD.

This EPD to the right is from the Gypsum Association, and anyone from North America who is a member can claim this for their product. Industry wide EPDs are only worth a ½ a product contribution under v4.

LEED v4.1 is more stringent. For LEED v4.1, the manufacturer must be included or listed by name in the EPD as a participant. These industry-wide EPDs count as 1 full product under LEED v4.1.



Type III Product Specific EPDs are for a very specific product from a defined manufacturer. You'll see it pretty easily.

This EPD is for Sherwin Williams PrepRite Block Filler. Nothing else, only this product.

Internally vs. Externally Reviewed

Type III Internally and Externally Reviewed just differ in whether an outside third party reviewed the information. You'll see it checked on an EPD pretty obviously, such as the case on this EPD, where the box specifically states Externally reviewed with a check mark.

Here's an example of an EPD where the box specifically states Externally reviewed with a check mark.



data sels may still eits. As sols, anches should be executed when enhanting 10th from Effects maniphotoms, as the 10th results may not be entirely comparable. Asy 10th comparison most be earth as of it to building level per 50 1180 publisher. The results of 10k 10th origing as everyap performance by the product and be cased impacts may very use assert come bask.

How many points are they worth?

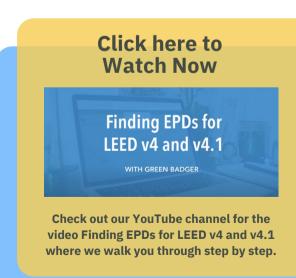
For LEED v4, internally reviewed are worth 0.75 products and externally reviewed are worth 1 product. For LEED v4.1, it is 1 for internal and 1.5 products for external.

For LEED v4, Product Specific Externally Reviewed count as 1 product, and for v4.1, they count as 1.5.

EPD's must Comply with ISO & EN

Lastly, EPDs need to demonstrate they conform to ISO 14025 and EN 15804 or ISO 21930. You don't need to know what these ISO standards mean, but your EPD needs to say they were done in accordance with them.

We've seen a whole lot out there that say they meet ISO 14025, but don't reference EN 15804 or ISO 21930. These are getting comments from USGBC, through they've still been accepting them due to "independent research with the Program Operators."



Material Ingredient Reporting



There are multiple types of documentation that contribute towards ingredient reporting. The three most common the Badger sees are Health Product Declarations, Declare Labels, and Cradle to Cradle certifications (or material health certificates).

Let's take a look at what each one is, and what they need to show to comply with the LEED credits.

Health Product Declarations (HPDs) provide a full disclosure of the potential chemicals of concern in products by comparing product ingredients to a set of priority "hazard" lists based on the GreenScreen for Safer Chemicals and additional lists from other government agencies.

HPD's qualify for LEED v4 and 4.1 if the end use product has a published and complete Health Product Declaration with full disclosure of known hazards in compliance with the HPD open Standard. It must demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm).

Not all HPDs are fully LEED v4 compliant. Fortunately, the good people at the HPD Collaborative have put together an infographic showing what needs to be in place for an HPD to count.

For LEED v4 and 4.1, HPDs count as 1 product towards the 20 required to earn the point. For v4.1, third-party verified HPDs count as 1.5 products.

Click here to Watch Now

Finding Compliant HPDs for LEED v4 and v4.1

WITH GREEN BADGER

Check out our YouTube channel for the video Finding HPDs for LEED 4v and v4.1 where we walk you through step by step.

Let's breakdown the HPD and take a look at each section.

	Armstrong Suspen by Armstrong Wor CLASSIFICATION: 09530 PRODUCT DESCRIPTION	ld Industries o		Health Product Declaration v2.1 created via: HPDC Online Builder	
	(a) Section 1: Su	mmary		Basic Method / Product Threshold	
The box 1000 ppm or the more stringent 100 ppm must be selected.	CONTENT INVENTORY Inventory Reporting Formet Nested Materials Method Basic Method Threshold Disclosed Per Material Product	Threshold level 100 ppm 1,000 ppm Per GHS SDS Per OSHA MSDS Other	Residuals/Impurities Considered Partially Considered Not Considered Explanationic provided for Pasiduals/Impurities? Yas O No	Are All Substances Above the Threshold Indicated: Characterized Percent Weight and Role Provided? Screened Using Priority Hazard Lists with Results Disclosed? Identified Yes C No Name and Identifier Provided?	Characterized AND Screened must both be Yes (or Yes Ex/SC depending on HPD version). Identified can be any of the options.
must be filled in – it cannot be blank. If Partially Considered or Not Considered is selected: It must be explained in the Notes in section 2 of why that is the case. CONTENT IN DESCENDING ORDER OF Summary of product contents and results from so substances against HPD Priority Hazard Lists and Chemicals®. The HPD does not assess whether will expose individuals to its chemical substances section 2 for further details. MATERIAL SUBSTANCE RESIDUAL OR IMPERIOR SUSPENSION SYSTEMS GALVAN CONTING FOR SUSPENSION SYSTEMS TITAL END		results from screening individual of azard Lists and the GreenScreen is sess whether using or handling the all substances or any health risk. I DUAL OR IMPURITY RD TYPE EMS [GALVANIZED STEEL TIPE	hemical Contents have been been been been been been been be	Greenscreen BM-4/BM3 contents	
It will also indicate if this HPD was third-party verified.		for this product category.	LCA: Envir Other: Inte	CATIONS AND COMPLIANCE See Section 2 for additional flatings. oriminatal Product Declaration metional Living Future Institute - Declare Label ENCY WITH OTHER PROGRAMS ad for LEED v4 Material Ingredients, Option 1 SCREENING DATE: 2017-08-23	
(There aren't many that are, but if it is, then it counts for 1.5 products under LEED v4.1.	_	BFER: BFIGATION #:		PUBLISHED DATE: 2017-06-23 EXPIRY DATE: 2020-08-23	
At the bottom of page 1, there needs to be a link where the HPD is available. Either from the HPD repository or the manufacturers site.	Armstrong Suspension Systems Prel www.hpd-collaborative.org	lude		HPD v2.1 created via HPDC Builder Page 1 of	5

Declare labels are another form of material ingredient reporting that are growing in popularity. According to the International Living Future Institute, who created and administers the program, a Declare label tells you three things.

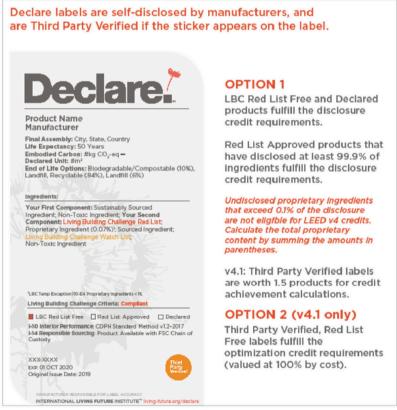
- 1. Where does a product come from?
- 2. What is it made of?
- 3. Where does it go at the end of its life?

Similar to HPDs, not all Declare Labels are created equally in the eyes of LEED.

Declare has been approved as a compliance pathway for the LEED v4 and v4.1 Building

Product Disclosure and Optimization Credit, Option 1. Per USGBC, Declare labels contribute toward the credit when they t meet the following requirements:

- 1. Declare labels designated as Red List Free OR Declared.
- 2. Declare labels designated as LBC Compliant that demonstrate content inventory to 0.1% (1000 ppm).
- 3. Declare labels meeting those requirements count as 1 product towards earning Material Ingredient Reporting in LEED v4 and v4.1. Third-party verified Declare labels count as 1.5 products for v4.1.



Source: International Living Future Institute

Final Assembly Locations are collectively represented on a single label.

Embodied Carbon (optional) discloses the cradle-to-gate impacts of manufacturing the product as reported by manufacturer-specific Type III Environmental Product Declarations.

End-of-life options: take back programs; salvageable or reusable in its entirety; biodegradable/compostable (%); recyclable (%); landfill (%); hazardous waste.

Ingredients are reported by component. Ingredients without restriction appear in grey; Red List chemicals appear in dark orange; Watch List Priority for Inclusion chemicals appear in

LBC Temporary Exceptions

recognize specific market limitations and provide a compliance pathway for products to obtain LBC Compliance recognition.

Declare Identifier for company and product, valid for 12 months. Original Issue Date indicates how long a product has been a registered product in the program.



Product Name Manufacturer

Final Assembly: First City, State, Country; Second City, State, Country; Third City, State, Country Life Expectancy: 50 Years Embodied Carbon: # kg CO,-eq = Declared Unit: # m2 End of Life Options: Recyclable (95%), Landfill (5%), Take Back Program (Program Name/Location)

Ingredients:

Your First Component: Sustainably Sourced Ingredient; LBC Red List Ingredient'; Your Second Component: ty for Inclusion; Non-Toxic Ingredient; Undisclosed (<0.1%)2

¹LBC Temp Exception RL-009 Formaldehyde ²LBC Temp Exception RL-004var.a Proprietary Ingredients

Living Building Challenge Criteria: Compliant

I-13 Red List:

- ☐ LBC Red List Free
- % Disclosed: 99.9% at 100ppm VOC Content: # g/L
- LBC Red List Approved

☐ Declared

I-10 Interior Performance: CDPH Standard Method v1.2-2017 I-14 Responsible Sourcing: Product Available with FSC Chain of Custody

XXX-XXXX EXP. 01 OCT 2021 Original Issue Date: 20XX

> MANUFACTURER CLAIMS VERIFIED BY THIRD PARTY VERIFIED ASSESSOR INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

LBC Criteria Compliance demonstrates compliance with all Imperatives applicable to the selection of building products within the Living Building Challenge. If a product meets the requirements for all applicable Imperatives, the product is considered fully compliant with the Living Building Challenge, and will be noted as such on the Declare label graphic itself.

I-13 Red List requires that manufacturers disclose the ingredients and VOC content (if applicable) in their products to ensure that they are free of Red List chemicals.

I-10 Interior Performance requires compliance with the California Department of Public Health (CDPH) Standard Method v1.1-2010 (or international equivalent) for all interior building products that have the potential to emit Volatile Organic Compounds (VOCs). The Declare label confirms a product's compliance with CDPH or an equivalent emissions standard.

I-14 Responsible Sourcing requires that manufacturers of wood products demonstrate sustainable extraction through certification with the Forest Stewardship Council, by meeting ILFI's definition of low risk or salvaged wood, or through the use of a formal LBC Exception.

Third Party Verification indicates assessment by a professional thirdparty assessor to ensure the accuracy of the manufacturer's supply chain, purchasing, ingredient claims, LBC compliance, and embodied carbon if reported.

A third program that contributes to earning the MIR Option 1 credit is Cradle to Cradle certified products.

According to the Cradle to Cradle Institute who administers the program, products are assessed for environmental and social performance across five critical sustainability categories: material health, material reuse, renewable energy and carbon management, water stewardship, and social fairness.

A product is assigned an achievement level (Basic, Bronze, Silver, Gold, Platinum) for each category. A product's lowest category achievement also represents its overall certification level.

Cradle to Cradle Certified Product Scorecard		
MATERIAL HEALTH	Silver	
MATERIAL REUTILIZATION	Silver	
RENEWABLE ENERGY & CARBON MANAGEMENT	Silver	
WATER STEWARDSHIP	Silver	
SOCIAL FAIRNESS	Gold	
OVERALL CERTIFICATION LEVEL	Silver	
What's this?		

Products comply with MIR Option

1 if it has Material Health
Certificate or is Cradle to Cradle
Certified under standard version 3
or later with a Material Health
achievement level at the Bronze
level or higher. If it is Cradle to
Cradle certified Bronze or higher,
it complies, as the overall
certification is based on the
lowest level of achievement.



LEED Compliant Products

By now you should have already opted into LEED v4.1 for the materials credits, AND you know all the nuances of environmental product declarations and the various types of material ingredient reporting. Nice work!

Now onto the main course - where should I be looking for products that meet the LEED requirements? The Badger's about to tell you!

We'll offer a precursor beforehand: the Badger does not endorse, recommend, prefer, sponsor, etc. any of the brands and products listed. Nor is this a comprehensive list of every single product that exists with an EPD or HPD.

What follows are product categories that are found on nearly any construction project, with product types that have multiple brands and product offerings that help earn the LEED MR credits - that's it, nothing more, nothing less. If we missed a brand, sorry, let us know, we'll include it in an update.

Should you look for EPDs/HPDs in other places? Have at it!

But for an easy cheat-sheet of where the Badger would start looking to get to that magic number of 20 – read on.

CHEAT SHEET



IEQc4: Low Emitting Materials

There aren't currently a lot of products that comply with Materials and Resources Option 2 optimization requirements.

CLICK HERE TO DOWNLOAD



EBOOK

EPD & MIR Opt 2 Product Guide

There aren't currently a lot of products that comply with Materials and Resources Option 2 optimization requirements. Here's an updated list!

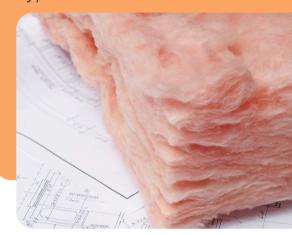
CLICK HERE TO DOWNLOAD

Insulation Products

Noisey? Use acoustical insulation. Cold? Bundle up that thermal insulation. Condensating pipes? There's insulation for that! Odds are that you have at least 3 types of insulation on your project.

The good news is that there are multiple brands that offer a variety of products chock full of EPDs, HPDs and are compliant with the CDPH standard (so you don't blow your low-emitting credits).

Here's just a sample of what you'll find from Certainteed, International Cellulose Corp, Johns Manville, Knauff and Owens Corning. Insulation, insulation, insulation! Batt, rolls, fiberglass, cellulose – the types and uses abound.



MANUFACTURER	PRODUCT	COMPLIANCE
Certainteed	FIBERGLASS DUCT WRAP INSULATION FIBERGLASS BLANKET INSULATION Sustainable Insulation Unfaced & Kraft Faced Batts Blowing Wool Fiberglass Insulation	EPD, SRM EPD, MIR EPD, MIR EPD, MIR
International Cellulose Corp	K-13 Acoustical/Thermal Insulation System Ure-K Acoustical/Thermal Insulation System	EPD, SRM, MIR SRM, MIR
Johns Manville	Flat ENRGY 3® CGF 800 SERIES SPIN-GLAS® PERMACOTE LINACOUSTIC R-300 1000 SERIES SPIN-GLAS LINACOUSTIC® RC-HP	SRM EPD, SRM EPD, SRM EPD, SRM EPD

LEED Compliant Insulation Products continued...

MANUFACTURER	PRODUCT	COMPLIANCE
Knauff	JetStream Ultra Blowing Wool Insulation Fiberglass Insulation Acoustical Smooth Board Knauf Insulation EcoBatt® Insulation with ECOSE® Technology Unfaced Batts Knauf Insulation EcoBatt® Insulation with ECOSE® Technology Faced Batts	EPD, MIR EPD, SRM, MIR EPD, SRM, MIR EPD, SRM, MIR
	Earthwool™ Redi-Klad™ 1000° Pipe Insulation with ECOSE® Technology	EPD, MIR
Owens Corning	EcoTouch Kraft Faced Insulation 700 Series Fiberglas™ Insulation Faced Thermafiber® Mineral Wool Insulation FOAMULAR Extruded Polystyrene (XPS)Insulation ECOTouch Insulation Unfaced 700 Series Fiberglas™ Insulation Unfaced Fiberglass Pipe Insulation Thermafiber UltraBatt Mineral Wool Insulation	EPD, SRM, MIR



Flooring Products

Nearly every major flooring manufacturer has multiple options for you to choose from. What

was the last project you were on that only had 1 type of flooring? You can find carpet (tiles and broadloom), vinyl, cove base, tile, solid surface and more – all with CDPH compliance as well.

Don't forget the adhesives! You've got a number of products that can help you there. Heck, Laticrete has over 100 HPDs in their product catalogue.

Note: While you may use 6 different carpet styles, if they are all the same underlying product, then they only count once. Styles of carpet are not different products. It would have to be a different formula-tion/backing to count as another product.

You can literally stumble into a pile of EPDs and HPDs with your flooring submittal.



MANUFACTURER	PRODUCT	COMPLIANCE
American Olean	American Olean Brand Tile - El Paso TX Wall Tile Manufacturing Facility	EPD
	American Olean Brand Tile - Monterrey Mexico Floor Tile Manufacturing Facility	EPD
	American Olean Brand Tile - Muskogee NA Body Tile Manufacturing Facility	EPD, MIR
	American Olean Brand Tile - Fayette AL Quarry Tile Manufacturing Facility	EPD, MIR
	American Olean Brand Tile - Muskogee OK Super White Body Tile Manufacturing	EPD, MIR
Armstrong	Luxury Vinyl Tile (LVT)	EPD, SRM, MIR
	Vinyl Composition Tile (VCT)	EPD, SRM, MIR
	BioBased Tile	EPD, SRM, MIR
	S-799 High Moisture Adhesive for Linoleum and Rubber Tile Interlude, Prelude, & Suprafine XL Suspension Systems	MIR EPD, SRM, MIR
	intertude, Fretude, & Suprainte AL Suspension Systems	EPD, SKM, MIK

LEED Compliant Flooring Products continued...

MANUFACTURER	PRODUCT	COMPLIANCE
Beaulieu Commercial	Nexterra Carpet Tile (Nylon 6,6 Face Fiber) Beaulieu Standard Broadloom (Nylon 6,6 Face Fiber) Level Hybrid Flooring Tile Level Tile with Nexterra Backing System Nexterra Carpet Tile (Nylon 6 Face Fiber)	EPD, MIR EPD, MIR EPD MIR EPD, MIR
Bentley Mills	AFFIXX Tile - Piece Dyed Nylon 6,6 AFIRMA™ Hardback Tile- Piece Dyed Nylon 6,6 AFFIXX Tile - Solution Dyed Nylon 6,6 NexStep Piece Dyed N66 Healthbond 2300 Adhesive High performance PC Broadloom Carpet	EPD, MIR EPD, MIR EPD, MIR EPD, MIR MIR EPD, SRM, MIR
Crossville	Procelain Tile	EPD, SRM, MIR
ECORE International	UltraTile ECOsurfaces PlayGuard QT Sound Control	EPD, MIR EPD, MIR EPD, MIR EPD, MIR
Forbo Flooring Systems	Marmoleum Tile 2.0mm and 2.5mm Colorex SD Flotex Sheet Marmoleum Sheet Coral Duo	EPD, MIR EPD, SRM, MIR EPD, MIR EPD, SRM, MIR EPD, MIR
Interface	Modular Carpet Tile Type 6,6 Nylon with GlasBac Modular Carpet Tile Type 6 Nylon with GlasBacRE Modular Carpet Tile Type 6 Nylon with NexStep Modular Carpet Tile Needlefelt with Graphlar Modular Resilient Flooring - LVT	EPD, SRM, MIR EPD, SRM, MIR EPD, SRM EPD, SRM EPD, MIR

LEED Compliant Flooring Products continued...

MANUFACTURER	PRODUCT	COMPLIANCE
Laticrete	L&M EMERYTOP 400 SPARTACOTE FLEX SB SPARTACOTE FLEX SB Low Gloss L&M FGS HARDENER PLUS SPARTACOTE FLEX PURE CLINICAL PLUS Permcolor Grout	MIR MIR MIR MIR MIR EPD, MIR
Milliken	Solution Dyed Nylon 66 with Milliken ES Comfort Plus Backing Milliken Solution Dyed Nylon 6 with Milliken ESP Underscore Backing Digital Dye Injected Nylon 6 with Milliken ES Comfort Plus Backing Aquafil Econyl Solution Dyed Nylon 6 with Milliken ES Underscore Backing Milliken Continuous Dyed Nylon 66 Broadloom Milliken Solution Dyed Nylon 6 with WellBAC Comfort	EPD, MIR EPD, MIR EPD, MIR EPD EPD, MIR EPD, SRM, MIR
Shaw Industries	EcoWorx Tile with Nylon Face Fiber EcoWorx PX Tile with Nylon Face Fiber Residential Broadloom with LifeGuard Backing System Classicbac® PC with NYLON Face Fiber Engineered Ply-Core Hardwood Flooring	EPD, SRM, MIR EPD, SRM, MIR MIR EPD, MIR MIR
ClarkDietrich	Mill-Certified Cold-Formed Steel	EPD, SRM, MIR
Concrete	Cement Mortar for tile installation - TCNA (IW) National Readymix (IW)	
Tarkett Commercial	Johnsonite Baseworks Thermoset Rubber Wall Base	EPD, SRM, MIR

Gypsum Board

You'll find the major national manufacturers here, like American Gypsum, Certainteed, National Gypsum, USG – all with tons of options. Since the uses are different, they can count as separate projects.

Type X? Of course. Fire rated Type X? You're getting warmer! Shaftliner, tile backer, mold resistant, glasmat – if you're not getting excited, go pound another Monster energy drink!

You could pound a Monster energy drink and put your fist through an EPD with the options you've got in gypsum board!



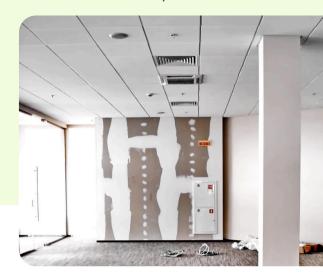
MANUFACTURER	PRODUCT	COMPLIANCE
American Gypsum	ClassicRoc Gypsum Wallboard M-Bloc Gypsum Wallboard with Mold and Moisture Resistance M-Glass Glass Mat Gypsum Panels Exterior Soffit Gypsum Sheathing Exterior Gypsum Sheathing	MIR MIR MIR MIR MIR
Certainteed	Type X Gypsum Board Vancouver, British Columbia Facility Type X Gypsum Board, Seattle, WA Facility Type X Gypsum Board (Montreal Facility) M2TECH MOISTURE & MOLD RESISTENT GYPSUM BOARD 12.7MM (1/2") (Montreal Facility) Type X Gypsum Board (Montreal Facility)	EPD, SRM, MIR EPD, SRM, MIR EPD, MIR EPD, MIR EPD, MIR
National Gypsum	Gold Bond XP Fire-Shield Gypsum Boards Gold Bond SoundBreak XP Gypsum Boards Gold Bond XP Fire-Shield C Gypsum Boards Gold Bond Fire-Shield C Gypsum Boards Gold Bond Fire-Shield Gypsum Boards ProForm Paper Joint Tape Permabase Cement Boards	EPD, SRM, MIR MIR MIR SRM, MIR EPD, MIR MIR EPD, MIR
USG	Sheetrock Brand EcoSmart Panels Mold Tough Firecode X Sheetrock Brand EcoSmart Panels Firecode 30 Sheetrock Brand EcoSmart Panels Firecode X Sheetrock Brand Firecode C Panels Sheetrock Brand Glass-Mat Panels Mold Tough AR Firecode	EPD, SRM, MIR EPD, MIR EPD, MIR EPD, MIR EPD, MIR

Ceiling Tile & Grid

Rare is the project that uses one ceiling tile throughout, and if you find you're one EPD short you can always hang a different type in the mechanical room... (the Badger didn't just say that, we'd never suggest such a shameless tactic to pick up a point).

This is another case where the big manufacturers make it easy for you. You have over 100 options to pick from between Armstrong, Certainteed and USG.

Another great product category where you know you'll have more than one option.



MANUFACTURER	PRODUCT	COMPLIANCE
Armstrong	Optima/Calla Ultima Ceiling System Metalworks Torsion Spring Dune Ceiling System Ultima+ Mesa Ceiling System	EPD, SRM, MIR
Certainteed	Baroque Ceiling Tile Cashmere Style Edge Ceiling Tile Protectone Cashmere Ceiling Tile Fine Fissured High NRC Ceiling Tile Sereno Fine Fissured Ceiling Tile Sky Ceiling Tile Symphony m and Rx Symphony m	EPD, MIR EPD, MIR EPD, MIR EPD, SRM,MIR EPD, SRM, MIR MIR EPD, SRM, MIR
USG	Mars ClimaPlus Healthcare Mars ClimaPlus HRC Mars ClimaPlus High-NRC Mars ClimaPlus RADAR™ RADAR™ RADAR™ Basic Radar ClimaPlus High-NRC	EPD, SRM, MIR EPD, MIR EPD, SRM, MIR

Paint Products

We'll skip the recap and just note that you can get literally 25% of the EPD/HPDs you need to earn the credit from paints (closer to 37% for v4.1 EPDs, since they are all third-party verified). While each color of a paint won't count as a separate product, each sheen or type of paint will.

So when you come in with a primer, flat, eggshell, semigloss and gloss paint, you've got 5 products helping you out. Throw in some block fillers and direct-to-metal paints and primers and you're practically 50% of the way there!

Don't have gloss paint on your project? There's a mechanical room for that!

If you missed the Badger blog post tying the Rolling Stones into EPDs and LEED, you can read that here.

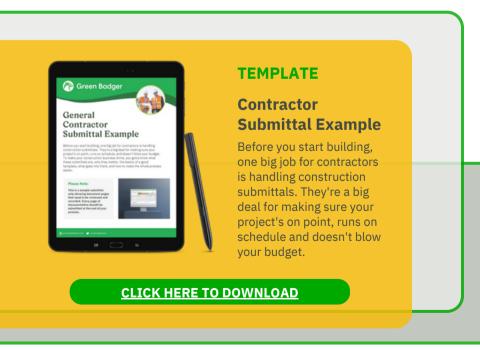


MANUFACTURER	PRODUCT	COMPLIANCE
Benjamin Moore	Ultra Spec 500 Waterborne Interior Paint- all finishes	EPD, MIR
	Eco Spec Interior Latex Paint- all finishes	EPD, MIR
	Ultra Spec HP DTM Acrylic Enamels- Semi Gloss	EPD, MIR
	Multi-Purpose Primer	EPD, MIR
	SCUFF-X Interior- Matte	MIR
	Super Spec Latex Enamel Undercoat Primer and Sealer Coronado	MIR
	Super Kote 5000 Latex Production Block Filler Flat 958 Advance	MIR
	Waterborne Interior Alkyd Paint- All finishes	MIR

PPG	SPEEDHIDE zero Interior -ALL FINISHES SPEEDHIDE Interior/Exterior Masonry Hi Fill Latex Block Filler Pitt-Tech® Plus EP DTM SICO Ecosource - ALL FINISHES Prominence- ALL FINISHES DULUX® Ultra -ALL FINISHES DULUX® Lifemaster - ALL FINISHES PITT-GLAZE® WB1 Pre-Cat Epoxy Semi-Gloss SEAL GRIP Acrylic Universal Primer/Sealer AQUAPON WB EP	EPD, MIR EPD
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LEED Compliant Paint Products continued...

MANUFACTURER	PRODUCT	COMPLIANCE
Sherwin Williams	ProMar 200 Zero VOC Latex paint - All Finishes ProMar 200 Zero VOC Latex Primer Loxon Concrete & Masonry Primer PrepRite Block Filler Pro Industrial DTM Acrylic - All Finishes Harmony Latex Paint - Semi-Gloss ProMar 400 Zero VOC - All Finishes Pro Industrial Waterborne Acrylic Dryfall - All Finishes	EPD, MIR EPD, MIR EPD, MIR EPD, MIR EPD, MIR EPD EPD, MIR EPD EPD, MIR
Kelly Moore	Premium Professional Interior Paint and Enamels- All Finishes AcryShield Premium Exterior Paint and Enamels- All Finishes DuraPoxy Premium Interior Paint and Enamels- All Finishes DTM Exterior Enamels, -Eggshell & Semi-Gloss Kel-Pro Interior Paint and Enamels- all finishes	EPD, MIR EPD, MIR EPD, MIR EPD, MIR EPD, MIR



Doors and Hardware

Make sure you're grabbing all the EPDs and HPDs from your door and hardware submittal! We see this one overlooked A LOT – and that's a huge mistake. I haven't been on a project that hasn't had a door in it, and I'm guessing you haven't either.

All of these products serve different functions, so you can count them all. Wood doors, metal doors, door frames, hinges, handles, closers, locks, security devices – knock it out of the park here!

You'll see a lot of familiar brands, many under the Assa Abloy umbrella, but there's others as well.

We're getting close to the end, so don't let the door hit you on the rear on your way out! ...see what we did there.



MANUFACTURER	PRODUCT	COMPLIANCE
Assa Abloy	Pemco S88 SiliconSeal Adhesive Smoke/Fire Gasket Pemko Mortise Aluminum Heavy Duty Geared Hinge Pemko S773 SiliconSeal Adhesive Smoke/Fire Gask HES 1600 Series Electric Strike AADG Attach Resistant Opening Ceco Imperial Hollow Metal Door Polyurethane Core Curries 747 Door Pioneer LW-Series Steel Stiffened Door SecUritron M62 MagnaLock	EPD, SRM, MIR EPD EPD, SRM EPD, MIR EPD, MIR EPD, SRM EPD, SRM EPD, SRM, MIR EPD, SRM EPD, SRM
Corbin Russwin	IN120 Wifi Electronic Access Control Mortise Lock CL3300 Series Cylindrical Lock ED5400 SVR Exit ED5000 Series Mechanical Exit Device CL3100 Series Vandal Resistant Lock ML2000 Series Mortise Lock ML20900 ECL Electromechanical Mortise Lock DC8000 Series Door Closer	EPD, SRM

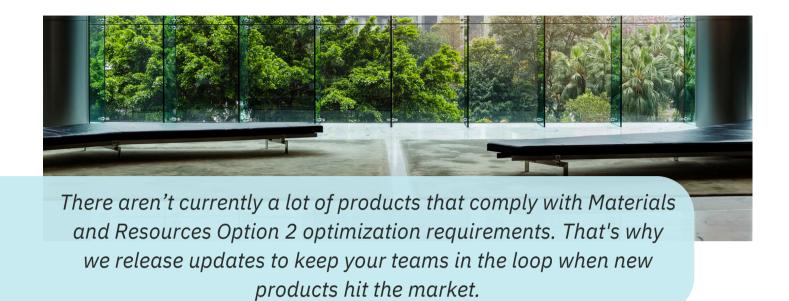
LEED Compliant Doors and Hardware continued...

MANUFACTURER	PRODUCT	COMPLIANCE
dormakaba	RTS88 Overhead Concealed Closers BEST T Deadbolt Series ALTERRA ALT50 Fixed Partition with Frameless Door Automatic Sliding Door Operator ES 200 BEST Rack and Pinion Door Closer EHD9000	EPD EPD, MIR EPD, MIR EPD, MIR EPD, SRM, MIR
Norton Rixon	7500 Series Door Closer 6000 Series Swinging Door Operator 8000 Series Door Closer 9500 Series Door Closer 5800 Series ADAEZ Door Opener 147 Offset Pivot	EPD, SRM, MIR EPD, MIR EPD, SRM EPD, SRM EPD, SRM SRM, MIR
Sargent	80 Series Mechanical Exit Device 8200 Series Electromechanical Mortise Lock 7900 Series Mortise Lock Sargent Exit 80 Series 56- Electromechanical 1131 Ruen Series Door Closer 10 Line Cylindrical Lock 8200 Series Mortise Lock with EcoFlex 8200 SERIES MORTISE LOCK Harmony Mortise Lock	EPD, SRM
Schlage	Schlage L9000 Series Lock L9010 Mortise Lock Schlage AL Series Lock Schlage ND Series Lock Schlage B5000 Series Lock	EPD, SRM, MIR EPD, MIR EPD EPD, MIR EPD

LEED Compliant Doors and Hardware continued...

MANUFACTURER	PRODUCT	COMPLIANCE
Yale	3000 Series Door Closer 6000 SVR Exit Yale 4400 Series Door Closer 6000 Rim Exit 8800 Series Mortise Lock	EPD, SRM EPD, SRM, MIR EPD EPD, SRM
Allegion	98/99 Series Exit Device IVES Architectural Hinges LCN 4000 Series Door Closer Schlage L9000 Series Von Duprin 33A/35A Series Exit Device Steelcraft L Series Door DL Series Doors with Honeycomb Core	EPD, SRM, MIR EPD, MIR EPD, SRM, MIR EPD, SRM, MIR EPD, MIR EPD, SRM, MIR EPD, SRM, MIR
Eggers	Interior Flush Wood Doors Interior Flush Wood Doors with Mineral Core Interior Flush Wood Doors with Structural with Composite Lumber Core	EPD, MIR MIR MIR

LEED v4.1 EPD & MIR Option 2





Green Badger's product database has around 90 products that comply with EPD option 2 requirements right now, and around 350 products for MIR option 2. This might seem like a lot, but most of those are Sherwin Williams paints for EPD option 2. This is because each sheen of paint counts as a separate product, and Sherwin Williams has a lot of product lines with many different sheens available.

However, if you're trying to achieve Option 2 LEED credits and need one more product that complies to hit your goals, Green Badger's product database is the perfect place to start!

As of January 2024, there are 90+ of products that comply with EPD Option 2 and 350+ of products that comply with MIR Option 2 in Green Badger's Product Database

Green Badger users can now search by LEED Materials & Resources Option 2 credit compliance in our green product and materials database to quickly see which products comply to earn each credit.



EPD Option 2

The credit thresholds have been re-written so that only 5 products are needed, and there's actually a confirmed standard to demonstrate compliance. The challenge that remains? As you'll see, there are still only a handful of these products, so you better plan on using all of them and have them identified from spec to installation. There's literally no room for error.

1 point under EPD Option 2 could be achieved for selecting 5 compliant products from 3 different manufacturers. See the following compliant products, whose manufacturers developed the required impact reduction analysis and plans (LEED v4.1 credit substitution):

The MRc2 credit that was dead-on-arrival in LEED v4, Multi-Attribute Optimization, now is achievable with some planning (or dumb luck) in LEED v4.1.



Life Cycle Impact Reduction Action Plan	value at ½ product
Life Cycle Impact Reductions in Embodied Carbon	value at 1 product
Life Cycle Impact Reductions in Embodied Carbon – 10% reduction global warming potential	value at 1.5 products
Life Cycle Impact Reductions in Embodied Carbon – 20% reduction in global warming potential and 5% reduction 2 other impact categories	value at 2 products

^{*} expiring in 2022 ** expiring in 2023

What qualifies as a Lifecycle Impact Reduction Plan?

The manufacturer needs to have a product-specific LCA using EN 15804 or ISO 21930 for the product it is claiming. If it has an EPD that qualifies under Option 1 here, you're in good shape. There, the manufacturer has to provide a publicly available action plan to mitigate or reduce life cycle impacts. It must be critically reviewed and include the following components.

- Description of the LCA used by the manufacturer to complete the analysis (pretty straightforward, would already be found in the EPD).
- Identification of the largest life cycle impact areas identified in the analysis and a narrative description of the impact areas targeted for reduction in the action plan.
- Description of specific steps anticipated in implementation of the action plan, with dates and a timeline for implementation.
- This is just a plan for reducing the product's impact down the road to get 50% credit (or ½ a product), the manufacturer needs to develop a plan to reduce impact, but it doesn't actually need to be implemented. You've got to crawl before you walk.

What qualifies as Life Cycle Impact Reductions in Embodied Carbon?

This one gets complicated pretty quickly if you read all the details. Literally, check it out below if you're a glutton for punishment:

Products that have demonstrated environmental impact reductions for the specified functional unit based on a current third-party EPD or verified LCA that conforms to the comparability requirements of ISO 14025 and ISO 21930. Here's where your good old EPD comes in. On top of that, it needs to be demonstrated that there is a reduction in the global warming potential (GWP) impact category. Any reduction in GWP is good for 1 product, a 10% reduction counts for 1.5 products, and 20% reduction AND at least a 5% reduction in 2 other impact categories yields 2 products.

What are these impact categories, you may be asking?

Well, I'll tell you. The impact categories are:

- Global warming potential (greenhouse gases), in CO2e;
- Depletion of the stratospheric ozone layer, in kg CFC-11e;
- Acidification of land and water sources, in moles H+ or kg SO2e;
- Eutrophication, in kg nitrogen equivalent or kg phosphate equivalent;
- Formation of tropospheric ozone, in kg NOx, kg O3 eq, or kg ethene; and
- Depletion of nonrenewable energy resources, in MJ using CML / depletion of fossil fuels in TRACI.

Breaking Down Documentation to Earn MRc2



Earning 1 point for MRc2 Option 2 Multi-Attribute Optimization



This image shows you what the documentation looks like and you don't need a lab coat to understand it!



The following list is not meant to be comprehensive – there are 350+ products in the Green Badger database that comply with MIR Option 2 requirements. The sample below represents some of the more popular products used in Green Badger projects.

ACOUSTICAL CEILINGS (09 51 00)

2 Product Weight

 USG Mars 7/8 Mars Healthcare High NRC (80/30) Acoustical Panels

TILE CARPETING (09 68 00)

.5 Product Weight

- Milliken Solution Dyed Nylon 6 with WellBAC Comfort*
- Interface Modular Carpet Tile Type 6 Nylon with GlasBacRE*

2 Product Weight

• J+J Flooring Kinetex® Modular Tiles*

THERMAL INSULATION (07 21 00)

1.5 Product Weight

- Owens Corning FOAMULAR® NGX™ 150 Extruded Polystyrene (XPS) Rigid Foam Insulation
- Owens Corning FOAMULAR & FOAMULAR NGX 350 & 350 CVI XPS

2 Product Weight

- Owens Corning Thermafiber Formaldehydefree Mineral Wool Insulation
- Owens Corning Thermafiber SAFB Mineral Wool Insulation - Unfaced
- Owens Corning Thermafiber RainBarrier Continuous Mineral Wool Insulation
- Owens Corning Thermafiber FireSpan Mineral Wool Insulation
- Owens Corning Thermafiber UltraBatt FF
- Owens Corning Thermafiber Safing Formaldehyde Free Mineral Wool

LOOSE-FILL INSULATION (07 21 23)

1.5 Product Weight

 Advance Fiber Technology Carbon Smart Loose-Fill Cellulose Insulation

DOOR ACCESS CONTROLLERS (08 71 00) AND OPERATORS

.5 Product Weight

- Allegion Von Duprin 98/99 Series Exit Device
- Allegion IVES Architectural Hinges

1 Product Weight

 ASSA ABLOY Sargent 8200 Mortise Lock with EcoFlex Technology

2 Product Weight

- ASSA ABLOY Medeco XT Mortise Cylinder
- Allegion Von Duprin QEL Latch Retraction Kit
- Norton 6011 Series Door Operator
- Allegion Falcon MEL Latch RetractionKit

DOOR HARDWARE (08 17 00)

2 Product Weight

- ASSA ABLOY Corbin Russwin ED5000 Series Mechanical Exit Device
- ASSA ABLOY Corbin Russwin IN120 Electronic Access Control Mortise Lock
- ASSA ABLOY Corbin Russwin CL3300 Series Cylindrical Lock
- ASSA ABLOY Sargent 10X Line Cylindrical Lock

ASPHALT SHINGLES (07 31 13)

1.5 Product Weight

• Malarkey Vista AR Shingle Line

2 Product Weight

- Malarkey Dura-Seal Shingle
- Malarkey Highlander NEX AR Shingle Line
- Malarkey Ecoasis NEX Shingle Line

CERAMIC TILE PANELS (07 44 00)

.5 Product Weight

• Fireclay Tile Recycled Clay Body

GYPSUM BOARD (09 29 00)

1.5 Product Weight

 USG Sheetrock Brand EcoSmart Panels Firecode X

PAINTS AND COATINGS (09 91 23)

.5 Product Weight

- Sherwin Williams ProMar 200 Zero VOC Latex Primer*
- Sherwin Williams ConFlex Block Filler*
- Sherwin Williams Pro Industrial Pre Catalyzed Waterbased Epoxy*
- Sherwin Williams Harmony Latex Primer**
- Sherwin Williams Loxon Concrete and Masonry Primer**

TILING

(093000)

1.5 Product Weight

• Crossville Porcelain Tile

RESILIENT FLOORING (09 65 19)

.5 Product Weight

 Interface Modular Resilient Flooring, 4.5 MM LVT on Sound Choice Backing*

2 Product Weight

 Tarkett Premium and Plus ranges homogeneous vinyl flooring*

PARTITIONS (10 22 23)

1 Product Weight

3form Varia Ecoresin*

DECORATIVE GLASS GLAZING (08 81 13)

2 Product Weight

- 3form Pressed Glass*
- 3form Chroma Panels*

PLUMBING FIXTURES (22 42 00)

1.5 Product Weight

Kohler Co Highcliff Toilet*

FLUSHOMETERS (22 42 43)

1 Product Weight

- Sloan Diaphragm Flushometers
- Sloan Piston Flushometers

1.5 Product Weight

• Sloan Sensor Flushometers



MIR Option 2

What is it about Option 2's that USGBC hates? If they make an Option 2 available, it is always the most complicated, cumbersome, and labor-intensive point available. In fact, if you want a good cheat-sheet, if there's an Option 2 available just run the other way. Option 2 of this credit in LEED v4 wasn't achievable, so they added an Option 3!

Thankfully, all of that is DOA for v4.1. Option 2 remains the same structurally, but the compliance thresholds have dropped significantly, and it puts this credit in the realm of possibly achievable.



Use products that have a compliant material ingredient optimization report or action plan. Use at least 5 permanently installed products sourced from at least three different manufacturers.

Material Ingredient Screening and Optimization Action Plan	value at ½ product
Advanced Inventory & Assessment	value at 1 product
Material Ingredient Optimization	value at 1.5 products

What qualifies as a Material Ingredient Screening and Optimization Action Plan?

The manufacturer has screened the product to at least 1,000 ppm and has provided a publicly available inventory meeting the requirements of Option 1 - that's the easy part. If you have an HPD already, the first step in the right direction!

Next, the manufacturer must create a detailed action plan to mitigate or reduce known hazards using the principles of green chemistry. This action plan needs to describe the screening platform and then identify the specific green chemistry principles targeted for implementation, specific steps anticipated for implementation, proposed changes in formulation or manufacturing processes that are planned and specific dates, and a full timeline for completion of all the steps described in the action plan.

If they do all that, their product counts as a whopping 0.5 contribution to earning this point.

What qualifies as an Advanced Inventory & Assessment?

The product needs a third-party verified HPD that was inventoried to 100 ppm. From there, you better be an expert in the GreenScreen Benchmark Assessment because it can't have any LT-1 or GHS Category 1 Hazards (whatever those are) or at least 75% by weight of the product is assessed using the GreenScreen Benchmark. Fortunately, there are easy-to-understand options available that don't require a chemistry degree.

- Declare labels designated as Red List Free that are third-party verified, or Living Product Challenge certified products that include a Red List Free Declare label.
- Cradle to Cradle: Product has Material Health Certificate or is Cradle to Cradle Certified™ under standard version 3 or later with a Material Health achievement level at the Bronze level or higher.

What qualifies as Material Ingredient Optimization?

The product needs a third-party verified HPD that was inventoried to 100 ppm with no Benchmark 1 or LT-1 hazards AND 95% by weight assessed using the GreenScreen Benchmark **OR**

- Cradle to Cradle Certification: Product has Material Health Certificate or is Cradle to Cradle Certified™ under standard version 3 or later with a Material Health achievement level at the Silver level or higher.
- Living Product Challenge Certification: Products certified to the Living Product Challenge which includes achievement of Imperative 09: Transparent Material Health.

The following list is not meant to be comprehensive – there are 350+ products in the Green Badger database that comply with MIR Option 2 requirements. The sample below represents some of the more popular products used in Green Badger projects.

STEEL (05 31)

- 1 Product Weight
- ASC Steel Deck

REBAR (05 41)

- 1 Product Weight
- Nucor Bar Mill Group Rebar

INSULATION (0700)

- 1 Product Weight
- International Cellulose K13 Acoustical Thermal Insulation

ROOFING & MEMBRANES (07 52 & 07 54)

- 1 Product Weight
- Soprema Bituminous Waterproofing Membranes
- Hertalan EPDM

ENTRANCE GRID SYSTEM (12 48)

- 1.5 Product Weight
- Construction Specialties Gridline

CEILINGS (0954)

1.5 Product Weight

- · Rockfon Sonar, Radar
- Lindner LMD Metal Ceiling
- Integra Metal Ceiling Panels

GLASS & GLASS PARTITIONS (08 81)

- 1 Product Weight
- AGC Float Glass
- Guardian LamiGlass
- Guardian Sputter Coated Float Glass

1.5 Product Weight

- AGC Patterned Glass
- AGC Pyrobel Glass
- Guardian
- Lindner

WINDOWS (08 51)

1.5 Product Weight

Heroal Windows

ALUMINUM SYSTEMS (08 51 & 08 81)

- 1 Product Weight
- Kawneer 1600 Wall System

1.5 Product Weight

• Kawneer Aluminum Façade & Sliding Systems

HARDWARE (08 71)

- 1 Product Weight
- Pemko Perimeter Gasketing

FABRICS/WALL COVERINGS (09 72)

- 1.5 Product Weight
- Carnegie Xorel

FIRESTOP (0784)

- 1 Product Weight
- Hilti Firestop

SHADE SYSTEMS (1071&1224)

- 1 Product Weight
 - Mecho
- 1.5 Product Weight
 - Kawneer Versoleil Sun Control Systems

RESILIENT FLOORING (09 65)

- 1 Product Weight
- Mannington Mills Rubber Tile
- Tarkett Rubber Flooring

1.5 Product Weight

- Gerflor Resilient Flooring
- Johnsonite Vinyl Wall Base
- Mondo (Artigo) Rubber Flooring
- Nora Noracare, Noraplan Standard
- Tarkett Linoleum & Base

ADHESIVES (09 65)

1 Product Weight

- Forbo Sustain
- WF Taylor Resilient Flooring Adhesive
- XL Brands various

1.5 Product Weight

- Forbo Sustain
- Henkel Loctite HB S Purebond Line
- Shaw S150 Spray Adhesive
- Tarkett Resilient Flooring & Cove Base Adhesive
- WF Taylor Adhesives

CARPET (09 68)

1 Product Weight

- EF Contract (J&J) Kinetex
- Mohawk Ecoflex
- Shaw EcoWorx

1.5 Product Weight

- Bentley Mills Affix, Afirma, EliteFlex
- Bentley Mills Tile & Broadloom
- Interface CQuest™Bio and Biox
- Modulyss Ecoback/Comfortback
- Patcraft (Shaw) EcoWorx ®Tile Carpets
- Tandus Centiva Powerbond Ethos Cushion
- Milliken Wellbac

DOOR & WALL PROTECTION (10 26)

1.5 Product Weight

- Construction Specialties Acrovyn 4000
- Tarkett/Johnsonite Baseworks Thermoset Rubber Wall Base

TILE (0930)

1 Product Weight

Crossville

PAINTS & COATINGS (09 91)

.5 Product Weight

- Sherwin Williams Emerald line
- Sherwin Williams Loxon Concrete & Masonry Primer
- Sherwin Williams Preprite ProBlock
- Sherwin Williams Preprite Block Filler
- Sherwin Williams ProMar 200 Zero VOC line

ACCESS FLOORS (09 69)

1 Product Weight

- Concore Tate Access Floor Panel
- Kingspan Access Floor Panels

1.5 Product Weight

• Linder



Summary



For the last time, if you haven't opted into LEED v4.1 for the materials credits, go do so immediately! Use the product categories above as a quick-start guide to finding LEED compliant products without having to go through 1000 submittals.

Heck, if the Badger was to crap out a repeatable list of products to earn the EPD and MIR Option 1 credits, it may look something like this:

1. Primer12. Metal door2. Flat paint13. Door hinges

3. Eggshell paint4. Door locks4. Semigloss paint15. Type X gypsum

5. Gloss paint 16. Fire rated Type X gypsum

6. DTM Paint 17. Mold-resistant gypsum

7. Carpet 1 18. Tile backer 8. VCT 1 19. Ceiling tile 1

9. Thinset mortar 20. Ceiling tile 2

10. Grout21. Thermal insulations11. Wood door22. Acoustical insulation

And you're done. Lather, rinse, repeat. Heck, all those EPDs are third party verified, so you really could have stopped sooner - but don't forget there's an exemplary performance point at 40. If all this LEED paperwork makes you feel nauseous, head to the bathroom, where you'll find dozens of options from Kohler, Sloan and Toto to pick up a few more compliant products.