



ULTIMATE GUIDE TO LEED V4 & V4.1

MRc2: **Environmental Product Declarations Option 1**

A Resource Guide for General Contractors

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Earning MRc2 Option 1 Environmental Product Declarations in LEED v4.1

*There's three things you'll need,
and 40 pages you won't.*

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

That's not to say you'll be walking the jobsite and trip over a pile of environmental product declarations (EPDs). In fact, most products still don't have them, but if you know where to look it's like shooting fish in a barrel. Where do I look, you may ask? Well that's what I'm about to tell you.



BY TOMMY LINSTROTH,
GREEN BADGER FOUNDER & CEO
LEED FELLOW

REQUIREMENTS



Requirements for MRc2 Option 1 for v4.1

1 Point

For most LEED BD+C Projects:

20 products with qualifying environmental product declarations.

1 Point

For Commercial Interiors, Core and Shell, and Warehouse projects:

10 products with qualifying environmental product declarations.

Exemplary
Performance Point

40 products

(20 for CI, C&S, Warehouse)

You may be asking, why is the word *qualifying* in italix? What's the hidden meaning behind that?

Unsurprisingly, not all EPDs are created the same, and LEED has a number of different requirements and standards that an EPD must have incorporated, or you're SOL. Let's break it down for you.

What is an Environmental Product Declaration?

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 others that are coming around.

Requirements for MRc5 in LEED v4.1, Cont.

There are 4 types of EPDs currently accepted by USGBC:

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

The first three all count as 1 product in your quest towards 20, while Product Specific Type III, Externally reviewed counts as 1.5 products.

Broadly speaking, there are 2 main types of EPDs that we come across:

- Industry Wide
- Product Specific Type III Externally reviewed.

Industry wide means it is not brand specific. The EPD shown below is for concrete from the **National Ready Mix Concrete association**. You can apply it to any of 72 ready mixed concrete products, as long as the plant you get it from a plant that participated in the EPD.

Manufacturers must be specifically identified as participants in the EPD, or it won't count (*or in this case, available to be verified through the link underlined below*).

There aren't a lot of compliant industry-wide EPDs out there, but you'll see them for some pretty common items like Type X gypsum board and glas-mat gypsum.

For concrete, keep in mind that there are 72 mix designs listed, and each one counts as a separate product - so you can potentially have multiple products from this single EPD.



According to ISO 14025

NSF International Certified

This industry-wide or sector average environmental product declaration is in accordance with ISO 14025 and describes the environmental characteristics of 72 ready mixed concrete products. It is a certified declaration and all relevant environmental information is disclosed as per the governing product category rules. A list of plants that are eligible to claim participation in this EPD is available at: www.nrmca.org/sustainability/EPDProgram/search

PROGRAM OPERATOR	NSF International 789 N. Dixboro Ann Arbor, MI 48105 www.nsf.org
DECLARATION HOLDER	The National Ready Mixed Concrete Association (NRMCA) 900 Spring Street Silver Spring, MD 20910 www.nrmca.org
DECLARATION NUMBER	EPD 10080
DECLARED PRODUCT	This industry wide EPD covers 72 ready mixed concrete products on a per cubic meter (cubic yard) basis

You can apply this Ready Mix Concrete EPD to any of 72 ready mixed concrete products, as long as the plant you get it from a plant that participated in the EPD.

Who is the EPD for?

That's the manufacture
(or the Declaration Holder)

Who created the EPD?

That's the Program Operator

What is the EPD for?


That's your product specific
(Declared Product).

Is it Internally or Externally Reviewed?

Finally a box that will be checked
for internal or external, and it is
almost always external, because
that's what the manufacturer is
shelling out the big bucks for.

**Product Specific Type III
Externally Reviewed EPDs count
as 1.5 products on your quest to
10 or 20 total products.**

**SHERWIN-WILLIAMS.**
Environmental, Health, Safety, and Regulatory Affairs
101 Prospect Avenue NW, Cleveland, Ohio 44115-1075



Environmental Product Declaration – PrepRite® Block Filler¹

PrepRite Block Filler Block Filler is effective on above grade and unpainted masonry surfaces. Allows topcoat on concrete block to be smooth and uniform.

The product image to the right is an example of one of the formulas covered by the EPD. A list of all relevant PrepRite Block Filler formulas is shown in Table 1 on page 2 of the EPD.

Program Operator	NSF International
Declaration Holder	The Sherwin-Williams Company
Declaration Prepared by	Doug Mazeffa (douglas.p.mazeffa@sherwin.com)
Declaration Number	EPD10084
Declared Product	PrepRite® Block Filler
Product Category and Subcategory	Architectural Coatings – Interior Coatings
Program Operator	NSF International ncss@nsf.org
Reference PCR	PCR for Architectural Coatings – 7-18-2015

Date of Issue	February 10, 2017
Period of Validity	5 Years

Contents of the Declaration	<ul style="list-style-type: none">– Product definition and material characteristics– Overview of manufacturing process– Information about in-use conditions– Life cycle assessment results– Testing verifications
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The PCR review was conducted by	Thomas P. Gloria, Ph. D. t.gloria@industrial-ecology.com
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This EPD was independently verified by NSF International in accordance with ISO 21930 and ISO 14025. <input type="checkbox"/> Internal <input checked="" type="checkbox"/> External	Jenny Oorbeck joorbeck@nsf.org
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by	Jack Geibig - EcoForm jgeibig@ecoform.com

Functional Unit:	1m ² of covered and protected substrate for a period of 60 years (the assumed average lifetime of a building)
Market-Based Lifetime Used in Assessment	5 years
Design Lifetime Used in Assessment	3 years
Test Methods Used to Calculate Design Life	ASTM D2805-11, ASTM D2486-06, ASTM D6736-08, ASTM D4828-94
Estimated Amount of Colorant	Varies (see Table 2)
Data Quality Assessment Score	Very Good
Manufacturing Location(s)	Various Plants Throughout the United States

By far and away, the most common EPs out there is Product Specific Type III, Externally reviewed.

That means they are for one manufacture, for a specific product line, and the information has been verified by a 3rd party.

And that's almost every EPD – that's what the manufacturer is paying someone for

– to verify it! So pretty much any EPD you get from UL, SCS, NSF or ASTM will all be third party verified and product specific.

Here's what you'll need to look at just to be sure. Frankly you can ignore 20 of the 21 pages in these documents.

There's always a little summary table that will tell you Program Operator – that's who created the EPD.

STRATEGIES



Strategies for MRc2 Option 1

Now that you know what an EPD is and what types qualify for LEED, let's dive in to where on earth will you find enough to earn the points? Its easy! I'm sure your architect provided a very detailed spec roadmap that identifies 25 products that they've picked out to ensure credit compliance - boom, you're set!

Wait, they didn't? There's just a generic spec saying provide EPDs for 20 products? Well, that doesn't help! Fortunately, I'm here to tell you where to look (and take notes, this will be the exact same guidance for earning Material Ingredient Reporting or MRc4 Option 1).

Where to find 20 products that have LEED Compliant Environmental Product Declarations

Green Badger recommends focusing on 6 different submittals, and its where you'll find boatloads of EPDs.

Here's where to start:

1. Insulation
2. Flooring
3. Gypsum board
4. Ceiling tile
5. Paint
6. Doors and hardware

Why focus on these six categories? Because each one has multiple manufacturers with lots of options so you're not pigeonholed into sole sourcing. Plus, every construction project has these products.

I'll offer a precursor before I go into the details. Neither I nor Green Badger 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. It's simply some guidance on product categories to get your points without banging your head into a wall. Now, let's take a quick run-through.

1. Insulation

Noisy? 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 if not more. All the big players are here – Owens Corning, Johns Manville, Knauff, Certainteed – plus a lot of options including thermal, acoustic, batt, spray, faced, unfaced.



Pictured: Owens Corning EcoTouch Kraft Faced Insulation

Manufacturer	Product	Compliance
Certainteed	FIBERGLASS DUCT WRAP INSULATION	EPD
	FIBERGLASS BLANKET INSULATION	EPD
	Sustainable Insulation Unfaced & Kraft Faced Batts	EPD
	Blowing Wool Fiberglass Insulation	EPD, MIR
International Cellulose Corp	K-13 Acoustical/Thermal Insulation System	SRM, MIR
	Ure-K Acoustical/Thermal Insulation System	MIR
Johns Manville	ENRGY 3®.E	MIR
	800 SERIES SPIN-GLAS®	EPD
	PERMACOTE LINACOUSTIC R-300	EPD
	1000 SERIES SPIN-GLAS	EPD
	LINACOUSTIC® RC-HP	EPD
Knauff	Knauf Insulation EcoBatt® Insulation with ECOSE® Technology Unfaced Batts	EPD, SRM, MIR
	Knauf Insulation EcoBatt® Insulation with ECOSE® Technology Faced Batts	EPD, SRM, MIR
	JetStream Ultra Blowing Wool Insulation	EPD
	Earthwool® Redi-Klad® 1000° Pipe Insulation with ECOSE® Technology	EPD
Owens Corning	EcoTouch Kraft Faced Insulation	EPD, SRM, MIR
	700 Series Fiberglas® Insulation Faced	EPD, SRM, MIR
	Thermafiber® Mineral Wool Insulation	EPD, SRM, MIR
	FOAMULAR Extruded Polystyrene (XPS) Insulation	EPD, SRM, MIR
	ECOTouch Insulation Unfaced	EPD, SRM, MIR
	700 Series Fiberglas® Insulation Unfaced	EPD, SRM, MIR
	Fiberglass Pipe Insulation	EPD, SRM, MIR
	Thermafiber UltraBatt Mineral Wool Insulation	EPD, MIR

2. Flooring Products

Next, we suggest the Flooring category. There are a ton of options for carpet, VCT, and ceramic tile. All the brands that show up – Armstrong, Shaw, Interface, Milliken – come with EPDs and HPDs. Don't forget the adhesives! Laticrete alone has over 100 products with HPDs, plus WF Taylor, XL brands, and others.



Pictured: Armstrong Luxury Vinyl Tile (LVT) via Armstrong.

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
	American Olean Brand Tile - Fayette AL Quarry Tile Manufacturing Facility	EPD
	American Olean Brand Tile - Muskogee OK Super White Body Tile Manufacturing	EPD
Armstrong	Luxury Vinyl Tile (LVT)	EPD, MIR
	Vinyl Composition Tile (VCT)	EPD, MIR
	BioBased Tile	EPD, MIR
	Summit-all-in-one Hardwood Adhesive	MIR
	S-799 High Moisture Adhesive for Linoleum and Rubber Tile	MIR
Beaulieu Commercial	Nexterra Carpet Tile (Nylon 6,6 Face Fiber)	EPD, MIR
	Beaulieu Standard Broadloom (Nylon 6,6 Face Fiber)	EPD, MIR
	Level Hybrid Flooring Tile	EPD
	Level Tile with Nexterra Backing System	MIR
	Nexterra Carpet Tile (Nylon 6 Face Fiber)	EPD, MIR
Knauff	AFFIX Tile - Piece Dyed Nylon 6,6	EPD
	AFIRMA™ Hardback Tile- Piece Dyed Nylon 6,6	EPD
	AFFIX Tile - Solution Dyed Nylon 6,6	EPD
	NexStep Piece Dyed N66	EPD, MIR
	Healthbond 2300 Adhesive	MIR

Flooring Products

Manufacturer	Product	Compliance
ECORE International	UltraTile	EPD
	ECOsurfaces	EPD
	PlayGuard	EPD
	Expona Commercial Resilient Vinyl Floor Covering	EPD, MIR
	QT Sound Control	
Forbo Flooring Systems	Marmoleum Tile 2.0mm and 2.5mm	EPD, SRM, MIR
	Colorex SD	EPD, SRM, MIR
	Flotex Sheet	EPD, MIR
	Marmoleum 2.0mm and 2.5mm	EPD, MIR
	Coral Duo	EPD, MIR
Interface	Modular Carpet Tile Type 6,6 Nylon with GlasBac	EPD, SRM, MIR
	Modular Carpet Tile Type 6 Nylon with GlasBacRE	EPD, SRM, MIR
	Modular Carpet Tile Type 6 Nylon with NexStep	EPD, SRM, MIR
	Modular Carpet Tile Needlefelt with Graphlar	EPD, SRM, MIR
	Modular Resilient Flooring - LVT	EPD, MIR
Laticrete	L&M EMERYTOP 400	MIR
	SPARTACOTE FLEX SB	MIR
	SPARTACOTE FLEX SB Low Gloss	MIR
	L&M FGS HARDENER PLUS	MIR
	SPARTACOTE FLEX PURE CLINICAL PLUS	MIR
Milliken	Solution Dyed Nylon 66 with Milliken ES Comfort Plus Backing	EPD, MIR
	Milliken Solution Dyed Nylon 6 with Milliken ESP Underscore Backing	EPD, MIR
	Digital Dye Injected Nylon 6 with Milliken ES Comfort Plus Backing	EPD, MIR
	Aquafil Econyl Solution Dyed Nylon 6 with Milliken ES Underscore Backing	EPD, MIR
	Milliken Continuous Dyed Nylon 66 Broadloom	EPD, MIR
Shaw Industries	EcoWorx Tile with Nylon Face Fiber	EPD, MIR
	EcoWorx PX Tile with Nylon Face Fiber	EPD, MIR
	Residential Broadloom with LifeGuard Backing System	MIR
	Classicbac™PC with NYLON Face Fiber	MIR
	Engineered Ply-Core Hardwood Flooring	MIR

3. Gypsum Board

The next category we suggest is Gypsum Board. The big players are here too, including National Gypsum, USG, Certainteed, and American.

Gypsum board is another category with a wide variety of products like Type X, Fire Rated, Mold Resistant, GlasMat, Tile Backerboard, Shaftliner, abuse resistant – the list goes on and on! And they all count as separate products.



Pictured: Certainteed, Type X Gypsum Board

Manufacturer	Product	Compliance
American Gypsum	ClassicRic Gypsum Wallboard	MIR
	M-Bloc Gypsum Wallboard with Mold and Moisture Resistance	MIR
	M-Glass Glass Mat Gypsum Panels	MIR
	Exterior Soffit Gypsum Sheathing	MIR
	Exterior Gypsum Sheathing	MIR
Certainteed	Type X Gypsum Board Vancouver, British Columbia Facility	EPD, MIR
	Type X Gypsum Board, Seattle, WA Facility	EPD, MIR
	Type X Gypsum Board (Montreal Facility)	EPD, MIR
	M2tech Moisture & Mold Resistent Gypsum Board 12.7MM (1/2") (Montreal Facility)	EPD, MIR
	Type X Gypsum Board (Toronto Facility)	EPD, MIR
National Gypsum	Gold Bond XP Fire-Shield Gypsum Boards	MIR
	Gold Bond SoundBreak XP Gypsum Boards	MIR
	Gold Bond XP Fire-Shield C Gypsum Boards	MIR
	Gold Bond Fire-Shield C Gypsum Boards	MIR
	Gold Bond Fire-Shield Gypsum Boards	MIR
USG	Sheetrock Brand EcoSmart Panels Mold Tough Firecode X	EPD, MIR
	Sheetrock Brand EcoSmart Panels Firecode 30	EPD, MIR
	Sheetrock Brand EcoSmart Panels Firecode X	EPD, MIR
	Sheetrock Brand Firecode C Panels	MIR
	Sheetrock Brand Glass-Mat Panels Mold Tough AR Firecode	MIR

4. Ceiling Tile & Grid

Armstrong, Certainteed and USG all have multiple options, and when was the last time you had a project that just used 1 single ceiling tile throughout? And if you need to, you can always hang a different tile in the mechanical room! I didn't just say that, I'd never suggest such a shameless tactic to pick up a point!



Pictured: Mars ClimaPlus Healthcare

Manufacturer	Product	Compliance
Armstrong	Ultima Ceiling System	EPD, MIR
	Metalworks Snap In	EPD, MIR
	Metalworks Clip On	EPD, MIR
	Metalworks Torsion Spring	EPD, MIR
	Dune Ceiling System	EPD, MIR
	Ultima+	EPD, MIR
	Mesa Ceiling System	EPD, MIR
Certainteed	Baroque Ceiling Tile	EPD, MIR
	Cashmere Style Edge Ceiling Tile	EPD, MIR
	Protectone Cashmere Ceiling Tile	EPD, MIR
	Fine Fissured High NRC Ceiling Tile	EPD, MIR
	Sereno Fine Fissured Ceiling Tile	EPD, MIR
	Sky Ceiling Tile	EPD, MIR
	Symphony m and Rx Symphony m	EPD, MIR
USG	Mars ClimaPlus Healthcare	EPD, MIR
	Mars ClimaPlus HRC	EPD
	Mars ClimaPlus High-NRC	EPD
	Mars ClimaPlus	EPD
	RADAR™	EPD
	RADAR™ Basic	EPD, MIR
	Radar ClimaPlus High-NRC	EPD

5. Paint Products

All the big manufacturers show up with compliant products in the paint category. What's great

is that each sheen of paint counts as a product, so that means if you're using Sherwin Williams Promar 200 zero VOC paint, you can count the primer, flat, eggshell, semi-gloss, and gloss paints all as unique products! Throw in block fillers and direct to metals and you're nearly halfway there.



Manufacturer	Product	Compliance
Imperial Paints	ECOS Interior Matte Wall Paint Dark Base	MIR
	ECOS Interior Gloss Paint White Base	MIR
	ECOS Interior Eggshell Dark Base	MIR
	ECOS MDF Passivating Primer Paint	MIR
	ECOS Atmosphere Purifying Paint White Base	MIR
	ECOS Interior Semi-Gloss White Base	MIR
	ECOS Clear Gloss Varnish	MIR
	ECOS Interior Gloss Paint Dark Base	MIR
	ECOS Interior Semi-Gloss White Base Paint	MIR
	ECOS Electromagnetic Radiation (EMR) Shielding Paint	MIR
PPG	SPEEDHIDE zero Interior Flat Latex	EPD, MIR
	SPEEDHIDE zero Interior Semi-Gloss Latex	EPD, MIR
	SPEEDHIDE Interior/Exterior Masonry Hi Fill Latex Block Filler	EPD
	SICO Ecosource - Melamine	EPD
	SICO Ecosource - Primer/Sealer	EPD
	Ultra Zero VOC by Dulux Interior Latex Paint - Eggshell	EPD
	Ultra Zero VOC by Dulux Interior Latex Paint - Primer	EPD
Sherwin Williams	ProMar 200 Zero VOC Latex paint - Flat	EPD, MIR
	ProMar 200 Zero VOC Latex Primer	EPD, MIR
	Loxon Concrete & Masonry Primer	EPD, MIR
	PrepRite Block Filler	EPD, MIR
	Pro Industrial DTM Acrylic - Gloss	EPD
	Harmony Latex Paint - Semi-Gloss	EPD
	ProMar 400 Zero VOC - Primer	EPD

6. Doors & Hardware

Finally, we've arrived at the doors and hardware category.

There are a ton of options here from doors and frames to kickplates, gaskets, locks and closing devices. This one always slips through the cracks, but you could knock out half of your EPDs here.



Corbin Russwin IN120 Wifi Electronic Access Control Mortise Lock

Manufacturer	Product	Compliance
Arrow Lock and Door Hardware	5016N Series Door Closer	EPD
	7700 Series Swinging Door Operator	EPD
	7800 Series Swinging Door Operator	EPD
	7900 Series Swinging Door Operator	EPD
	900N Series Door Closer	EPD
Assa Abloy	Attack Resistant Opening Wood Doors	EPD
	Pemko Mortise Aluminum Heavy Duty Geared Hinge	EPD
	Sketch Door	EPD
	Markar FM300 Stainless Steel Edge Mount Continuous Pin and Barrel Hinges	EPD
	HES 1600 Series	EPD
	Earth Door Wood Door	EPD
	Attack Resistant Hollow Metal Steel Door	EPD
	Pemko PDB411E Acoustic Automatic Door Bottom	EPD
	High Pressure Laminate Wood Door	EPD
Corbin Russwin	IN120 Wifi Electronic Access Control Mortise Lock	EPD
	CL3300 Series Cylindrical Lock	EPD
	ED5400 SVR Exit	EPD
	IN100 Aperio Mortise Lock	EPD
	ED5000 Series Mechanical Exit Device	EPD
	CL3100 Series Vandal Resistant Lock	EPD
	ML2000 Series Mortise Lock	EPD
	ML20900 ECL Electromechanical Mortise Lock	EPD
	Access 600 RNE1	EPD

6. Doors & Hardware

Manufacturer	Product	Compliance
DORMA Deutschland GmbH	BTS 80 BTS 80 EMB and RTS 80 EMB Series concealed door closers	EPD
	BTS 75 V and RTS 87 Series concealed door closers	EPD
	8600 and 8900 Series surface applied door closers	EPD
	8000 and 9000 Series exits	EPD
	RTS 85 RTS 88 and BTS 84 Series concealed door closers	EPD
Norton	Norton 7500 Series Door Closer	EPD, SRM
	5800 Series ADAEZ Door Opener	EPD
	Norton 1600 Series	EPD
	6300 Series ADAEZ Door Opener	EPD
	8000 Series Door Closer	EPD
	9300 Series Door Closer	EPD
	Norton 7700PT Series Door Closer	EPD
	Norton DC 5600 Operator	EPD
	Norton 9500 Series Door Closer	EPD
	Norton 7200 Series Door Closer	EPD
Sargent	80 Series Mechanical Exit Device	EPD
	8200 Series Electromechanical Mortise Lock	EPD
	7900 Series Mortise Lock	EPD
	Sargent Exit 80 Series 56- Electromechanical	EPD
	281 Series Door Closer	EPD
	1131 Ruen Series Door Closer	EPD
	10 Line Cylindrical Lock	EPD
	8200 Series Mortise Lock with EcoFlex	EPD
	8200 SERIES MORTISE LOCK	EPD
	Harmony Mortise Lock	EPD
Schlage	Schlage L9000 Series Lock	EPD, SRM, MIR
	L9010 Mortise Lock	EPD, MIR
	Schlage AL Series Lock	EPD
	Schlage ND Series Lock	EPD
	Schlage B5000 Series Lock	EPD
Yale	3000 Series Door Closer	EPD
	6000 SCR Exit	EPD
	Yale 4400 Series Door Closer	EPD
	51 Series Door Closer	EPD
	6000 Rim Exit	EPD

Recapping the Strategy Roadmap

Using this roadmap, most projects could pick up 6 paints, at least 4 flooring products, 3 door components, 4 wall products, 2 ceiling products, and 2 insulation types and you're home-free.

All without counting that they are worth 1.5 products apiece because all those EPDs are – you guessed it – Externally Reviewed!

So there you go. Hit up these submittals and I'm confident you'll have completed your requirements for EPDs and Ingredient reporting for Options 1 without having to get in fistfights with the architect, subcontractors, or anyone else.

Let's recap the strategy:

- Start your efforts with insulation, flooring, gypsum board, ceiling tiles, paint and doors/hardware
- Check the finish schedule early and often, and if possible, review with the architect to roadmap product selection
- Get to 20 products quickly, and you can change the acronym EPD from environmental product declaration to Every Person Drinking!

Summary of Strategies



6 Paints



4 Flooring Products



3 Door Components



4 Wall Products



2 Ceiling Products



2 Insulation Types

MORE BEST PRACTICES

For Environmental Product Declarations



1. Utilize Green Badger!

Sort of goes without saying but using your Green Badger project license makes this all so easy, so automated, so headache free.



2. Roadmap as early as possible with the architects.

We are seeing more and more architects detail out products to go for, but when they don't, get on the same page and have a joint strategy to make sure you're on the path to success.



3. Use a LEED materials cover sheet for your subcontractors.

Making them fill this out solves a number of problems - it helps you nail down material cost in a clean manner, requires the sub to put some thought into LEED attributes, and gives you a way to cross check the backup documentation.



4. Always double-check your Environmental Product Declarations

Double check the EPDs to make sure they detail what you need as you learned earlier. Make sure the whole EPD is included, not just 1 page of it.



5. Create a LEED EPD folder

If you're not using Green Badger, go ahead and create a LEED EPD folder - you've got to submit ALL of them to USGBC, so having them in one folder you can zip up and upload at the end will make life a lot better come submission time.



BADGER TIP:

Or reject the submittal and send it back. Pretty straightforward!

Keywords: *Self-esteem, self-esteem threat, self-esteem threat sensitivity, self-esteem threat sensitivity scale, self-esteem threat sensitivity scale-2*

- Make sure you are using LEED v4.1! Remember, you don't have to update your entire project to LEED v4.1 – you can opt-in on a credit by credit basis.
- Roadmap products early with the design team.
- Focus on insulation, flooring, gypsum board, ceiling tile, paints and doors/hardware.
- Verify and log your EPDs into a folder for easy submission to USGBC.

hereby certify that the material information submitted here is an accurate

SUMMARY