

# **GREEN MATERIALS: HOW DO YOU KNOW WHAT'S GOOD?**



**HOUSTON GREEN BUILDING RESOURCE CENTER  
MARCH 28, 2018**

# YOUR NEEDS

Always a time crunch

















Demand for current, consistent and correct source of complete product information

Complete sustainability and performance data required for adequate product evaluation and selection

Product information needed within project framework




# COMPLEX STAKEHOLDERS AND DEMANDS

Stakeholders	Building Owner Insurer			Building Performance, Legal Codes, Fire Safety, Cost, Health & Environment
	Developer Asset Manager			Fire Safety, Building Performance, Health & Environment, Risk and Cost
	Architect Designer			Building Owner, Cost Optimization Tenants/Occupants
	Engineer Specifier			Safety and Security, Performance, Quality, and Codes
	Building Occupants Tenants			Health & Environment, Tenants/Occupants Safety/Security
	General Contractor Sub Contractor			Eco Awareness, Health & Environment, Cost, Regulation, Code, Building Performance
	Regulatory Authorities Government Agencies			Safety and Health, Sustainability
	Manufacturer & Mfg'r Reps			Government Agencies, Regulations, Codes & Compliance, Health & Environment, Cost, Performance
		Demand Drivers		



# LOW-EMITTING PRODUCTS





**Volatile Organic  
Compounds (VOCs)**

**Inorganic & Organic  
Particulates/Allergens**

**Formaldehyde &  
Aldehydes**

**Inorganic &  
Combustion Gases**

**Mold & Mildew**





**Eye Irritation**

**Headache**

**Upper Respiratory  
Irritation**

**Nausea**

**Dizziness**

**Fatigue**

**Sore or Dry Throat**

**Nosebleed**



**Air pollutants  
are 2–5X higher  
indoors than  
outdoors  
(U.S. EPA)**



Every day in the U.S.:

**40,000** people miss work due to asthma

**30,000** people suffer asthma attacks

**5,000** people visit the ER due to a severe asthma attack

(AsthmaMD Inc.)





# SO WHY IS IAQ IMPORTANT

**\$63 B/year** loss from  
lost productivity and  
increased healthcare  
costs.

(National Energy Management Institute, 2010)

**.5M** out of **4.5M** U.S.  
commercial buildings  
have unacceptable IAQ  
affecting **55M** workers.

(U.S. EPA and NEMI 2010)



# VOC EMISSIONS

**LEED** EQc Low-Emitting Interiors – content and emissions for wet products; furniture emission given different levels of credit

**WELL** Feature 04: VOC Reduction (P) - need low-emitting building products that meet CDPH/EHLB/Standard Method v1.1 (1.2 now) in areas such as flooring, paints, adhesives, insulation, gypsum board, ceiling tiles; either or content or emissions for wet products; furniture required to meet almost same levels

**Fitwel** – 6.3 Adopt and Implement an IAQ Policy for the Workplace; includes products and other air quality measures

**ASHRAE 189.1 and IgCC**, all have requirements for low-emitting products and air quality measures



# CHEMICAL TRANSPARENCY



Carcinogenic and endocrine disrupting pesticides were detected in more than **50%** of those tested.

Fire retardant chemicals (PBDEs) were in the serum of nearly all people sampled.

BPA was found in ~**100%** of urine samples: females had higher levels than men; children had the highest levels.

*CDC's Fourth National Report on Human Exposure to Environmental Chemicals, 2017*







According to the U.S. EPA, about 90% of U.S. chemicals are exempt from federal review under the Toxic Substances Control Act.

The EPA only has data for 200 of the thousands of chemicals that are on the market.

Only **5** of the **20,000** chemicals introduced since 1976 are banned by the EPA .

(Environment and Human Health, Inc. Report, Wargo, 2010)

The five chemicals that are banned are: PCBs, chlorofluorocarbons, dioxin, asbestos, and hexavalent chromium.





**30+** top design firms  
issued open letters to  
manufacturers  
**DEMANDING** disclosure  
of chemical ingredients.



**LEED v4**  
launched and included  
a credit **REQUIRING**  
**chemical disclosure:**  
MR Credit: Building Product  
Disclosure and Optimization -  
Material Ingredients



**71%** of projects  
valued at \$50 million  
and over reference  
**LEED in project  
specifications**  
McGraw Hill Construction (2010)

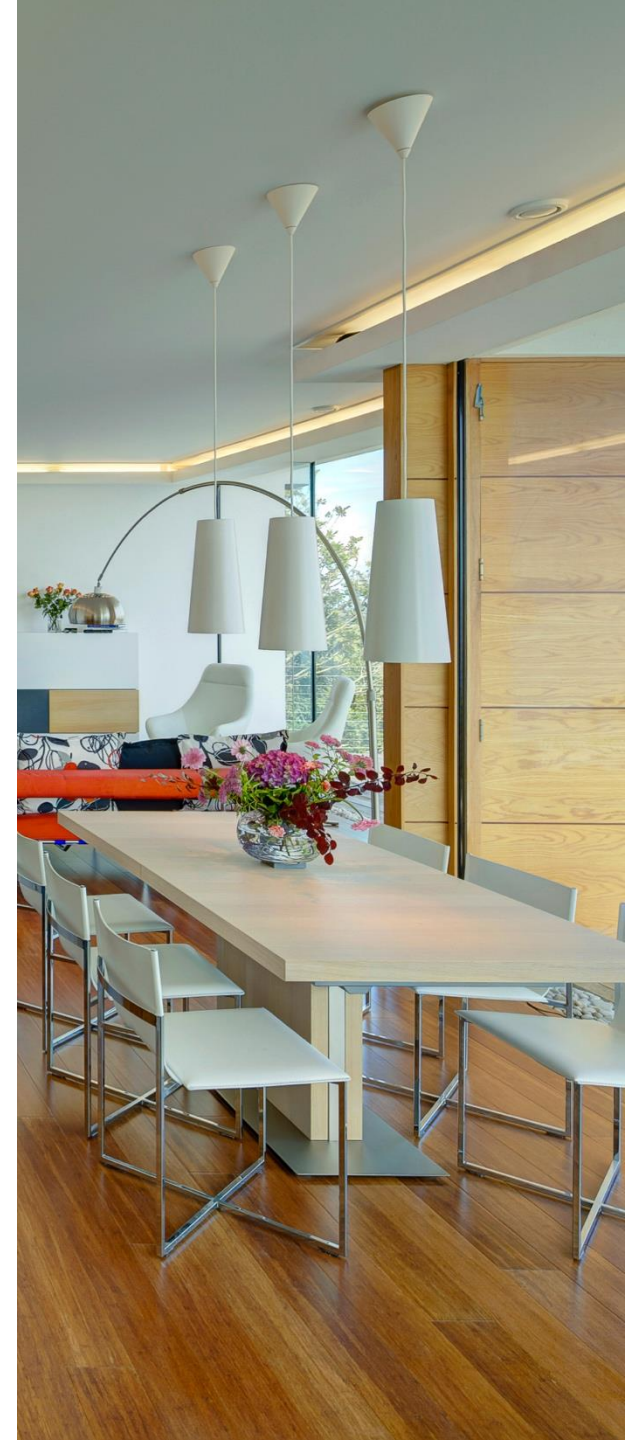


# MATERIAL INGREDIENTS

**LEED** MRc Building Product Disclosure and Optimization: Material Ingredients Option 1 - 20 products from 5 different manufacturers that have publicly available inventory of content down to at least 1000 ppm or HPD, Cradle to Cradle, Declare, Product Lens, or credits in some multi-attribute standard

**WELL** Feature 97: Material Transparency Part 1  
- at least 50% (by cost) of interior finishes, finish materials, furnishings, and built-in furniture have been evaluated and disclosed down to 1000 ppm through HPD, Cradle to Cradle, Declare, Product Lens, or credits in some multi-attribute standard

**Not in Fitwel or Green Codes** currently



# ENVIRONMENTAL IMPACT - EPDS







# LCA



**WITHOUT** environmental product declarations  
would be inconsistent and highly incomparable ...

...because there are **no** instructions and guidelines  
on how to complete the assessment.

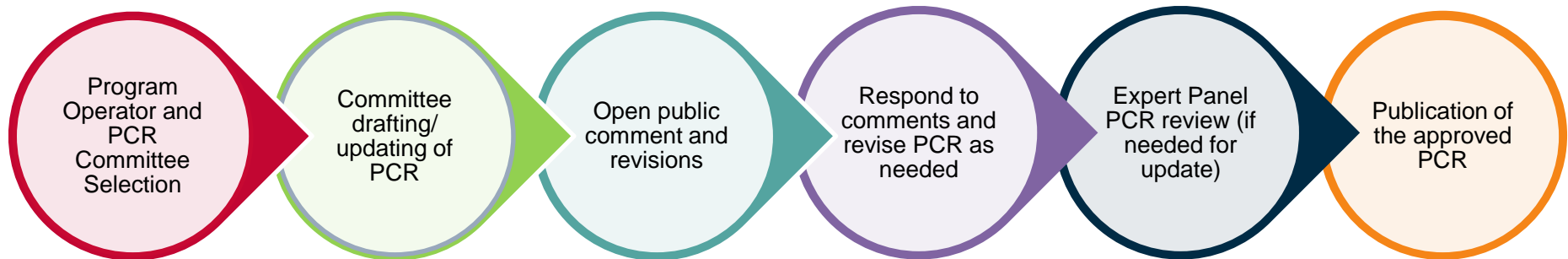




...but **WITH** environmental product declarations,  
comparing life cycle assessments is like comparing...

**instructions & guidelines** ...because the  
consistent EPD outputs of products in the same category allow for more

# PCR





# Environmental Impacts



# Who Wants EPDs?

A detailed architectural floor plan is shown, featuring various rooms labeled in Dutch: 'TELEKAMER' (telephony room), 'KEUKE' (kitchen), 'VENT. KAMER' (ventilation room), 'HAL' (hall), and 'SL. K.' (bedroom). The drawing includes precise dimensions and structural lines. Overlaid on the drawing are several drafting tools: a light-colored wooden pencil in the upper left, and three yellow folding rulers with red markings and metal fasteners, positioned diagonally across the right side of the image.

**90%:** Want scientific evaluation of products

**89%:** Want tools to compare the sustainability performance of products

**88%:** Want access to specific sustainability performance required to achieve certification

# North America...

## Building Industry

### LEED® v4 Materials & Resources Credit

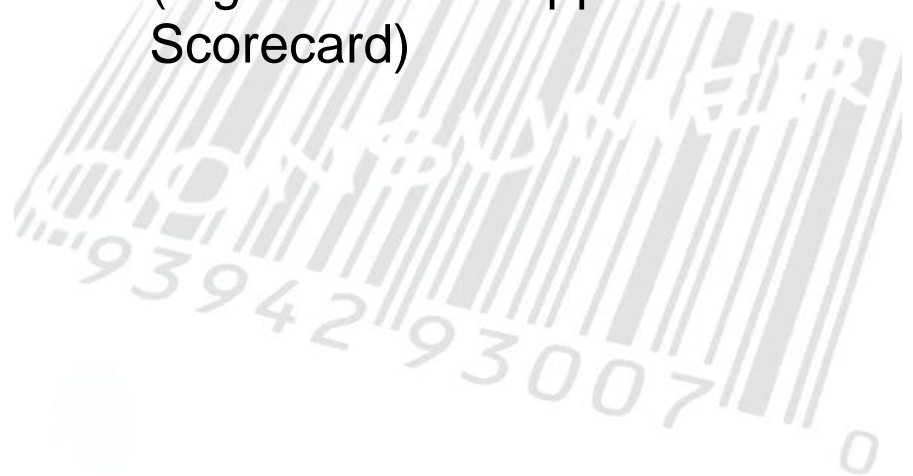
- Gives credit to LEED project teams that specify certified products with accompanying EPDs
- Optimization credit available when demonstrating reduction in impacts

### Buy Clean California Act (AB 262)

- Will require bidders to submit EPDs and products must be within maximum acceptable GPW for each category of materials

## Consumer Packaged Goods & Appliances

- **Federal Procurement Guidelines** for Product Environmental Performance Standards and Ecolabels for Voluntary Use (2014)
- **Retailers** are starting to ask about product environmental footprints on specification forms (e.g. Walmart Supplier Scorecard)





# North American Building Industry EPD Demand Drivers

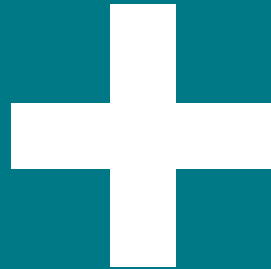
- LEED v4 Materials & Resources Credit, Option 1
  - Gives credit to LEED project teams that specify certified products with accompanying EPDs
  - Optimization credit available when demonstrating reduction in impacts
- Green Globes
- CHPS (Collaborative for High Performance Schools, credit MW7.1)
- ASHRAE Standard 189.1
- 2018 International Green Construction Code (IgCC)
- 2014 GSA Facilities Standards for Public Buildings
- 2012 NAHB National Green Building Standard





# EPDs and Ecolabels Work Together

**TRANSPARENCY**



**ACHIEVEMENT**

TYPE III LABEL TRANSPARENCY + TYPE I LABEL ACHIEVEMENT =  
MORE SUSTAINABLE DECISION-MAKING

ENVIRONMENTAL PRODUCT DECLARATION

## EASH-LITE® LIGHTWEIGHT GYPSUM BOARD

FOR CERTAINTED GYPSUM MANUFACTURING FACILITIES BASED AT:  
CARROLLTON, KENTUCKY  
MOUNTAINVILLE, WEST VIRGINIA  
ROXBORO, NORTH CAROLINA



### The Eash-Lite® Advantages:

- Up to 30% lighter – easy to lift, carry and install, which results in faster installation
- For wall and ceiling applications up to 24" (60 mm) x 8'
- Unfired high-strength, sag-resistant gypsum core with 100% recycled face and back paper
- Scores and snaps with less dust
- GREENGUARD® Gold Certified
- Solid, strong edge hardness – tapered edges for perfect joints

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## CertaInteed Gypsum

Architects, contractors and manufacturers continue to look for ways to reduce our industry's impact on the environment while meeting customer demand for products that deliver beauty, comfort and performance. CertainTeed Gypsum, the leader in innovative drywall and performance solutions, has the products to make your projects healthier, quieter and more comfortable. For ceiling and wallboard, we offer products that contribute to better air quality, acoustics, fire resistance, moisture and mold resistance, recycled content, recycled materials and innovation in design needs, as well as overall quality, aesthetics and workability of a building.

CertaInteed Gypsum operates its manufacturing facilities with a responsible and environmentally conscious style that includes sustainable, preservation of natural resources, recycling and waste management. As part of Saint-Gobain, CertaInteed Gypsum has access to unparalleled research and innovation capabilities to manufacture wall products that can greatly affect our physical and mental well-being. Find out how we can help you create a stronger, healthier interior at [www.certainteed.com/gypsum](http://www.certainteed.com/gypsum)



# Say Hello to the EPD




Final Assembly: City, State, Country  
Life Expectancy: 200-16,400  
Kind of Life Options: Recyclable (42%), Landfill

WINSTONE WALLBOARDS  
10 MM GIB AQUALINE®  
PLASTERBOARD


Final Assembly: City, State, Country  
Life Expectancy: 200-16,400  
Kind of Life Options: Recyclable (42%), Landfill

9WOOD  
1100 CROSS PIECE  
GRILLE/2100 PANELIZED  
LINEAR (FSC DOUGLAS...

Red List  
Free



Red List  
Free



KAWNEER COMPANY, INC.  
1600 WALL SYSTEM™ 1  
CURTAIN WALL AND  
SYSTEM™

KAWNEER COMPANY, INC.  
1600OUT WALL SYSTEM™ 1  
CURTAIN WALL  
SYSTEM™

Green Seal > Fi


Company Name: Product Name: Product Type: Certification Type:

Filter

Certification Number	Company Name	Product Name	Product Type	Certification Type	Cert. From	Cert. To	Location	Product Contact Info
17-0309	Aaron Industries	High Density Polyethylene Repro	Plastic Blends	Recycled Content	May 1, 2017	April 30, 2018	Leominster, Massachusetts	info@aaronline.com
17-0310	Aaron Industries	Homopolymer Polypropylene Repro	Plastic Blends	Recycled Content	May 1, 2017	April 30, 2018	Leominster, Massachusetts	info@aaronline.com
17-0311	Aaron Industries	Copolymer Polypropylene Repro	Plastic Blends	Recycled Content	May 1, 2017	April 30, 2018	Leominster, Massachusetts	info@aaronline.com
17-0312	Aaron Industries	Polypropylene Repro	Plastic Blends	Recycled Content	May 1, 2017	April 30, 2018	Leominster, Massachusetts	info@aaronline.com
17-0313	Aaron Industries	General Purpose Polystyrene Repro	Plastic Blends	Recycled Content	May 1, 2017	April 30, 2018	Leominster, Massachusetts	info@aaronline.com
17-0314	Aaron Industries	High Impact Polystyrene Repro	Plastic Blends	Recycled Content	May 1, 2017	April 30, 2018	Leominster, Massachusetts	info@aaronline.com
17-0315	Aaron Industries	Calcium Filled Polypropylene Compounds	Plastic Blends	Recycled Content	May 1, 2017	April 30, 2018	Leominster, Massachusetts	info@aaronline.com
17-0316	Aaron Industries	Talc Filled Polypropylene Compounds	Plastic Blends	Recycled Content	May 1, 2017	April 30, 2018	Leominster, Massachusetts	info@aaronline.com
17-0081	Abington Reldan Metals, LLC	Fine Gold	Precious Metals	Recycled Content	December 30, 2016	November 30, 2017	Fairless Hills, PA	Abington Reldan Metals, LLC
17-0082	Abington Reldan Metals, LLC	90/10 Platinum Alloy	Precious Metals	Recycled Content	December 1, 2016	November 30, 2017	Fairless Hills, PA	Abington Reldan Metals, LLC
17-0421	Aleris Rolled Products, LLC	3105 Aluminum Alloy	Aluminum Alloys	Recycled Content	August 1, 2017	July 31, 2018	Uhrichville, OH	info@aleris.com
17-0420	Aleris Rolled Products, LLC	3004 Aluminum Alloy	Aluminum Alloys	Recycled Content	August 1, 2017	July 31, 2018	Uhrichville, OH	info@aleris.com
17-0415	Aleris Rolled Products, LLC	3025 Aluminum Alloy	Aluminum Alloys	Recycled Content	August 1, 2017	July 31, 2018	Richmond, VA	info@aleris.com
17-0414	Aleris Rolled Products, LLC	3105 Aluminum Alloy	Aluminum Alloys	Recycled Content	August 1, 2017	July 31, 2018	Richmond, VA	info@aleris.com

Certified Green Products X

Secure | https://www.scsglobalservices.com/certified-green-products-guide



Certified Green Products Guide

Your online directory for SCS certified green products


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Filters


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atings  
43)



Printing & Writing  
Paper (GS-7, GS-  
10, GS-15)

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37,  
i1, GS-



Hand Soaps &  
Cleaners (GS-41)

97%

9:31 AM  
11/1/2017

97%

9:30 AM  
11/1/2017



# INTRODUCING SPOT



[UL.COM/SPOT](http://UL.COM/SPOT)

Featuring more than 45,000 products

MasterFormat product coding

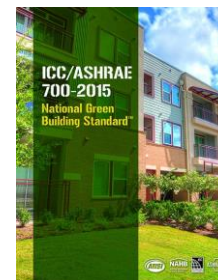
AutoDesk® Revit Add-in Launching 2017

App available from Apple Store and Google Play

Search by Sustainable Building Credits



BREEAM®




fitwel







# INTRODUCING SPOT – HOMEPAGE – UL.COM/SPOT

**UL SPOT**

LOGINREGISTERENGLISH ▾NORTH AMERICA ▾



Enter Search Keywords



Manufacturer / Brands

[View all](#)

click view all above to see list

Product Type

[View all](#)

Furniture(19164)

Flooring(8785)

Surfacing Materials(4951)

Textiles(3454)

Cleaning Products/Systems(3060)

MasterFormat®

[View all](#)

12 00 00 FURNISHINGS(23500)

09 00 00 FINISHES(6434)

10 00 00 SPECIALTIES(4110)

33 00 00 UTILITIES(1948)

02 00 00 EXISTING CONDITIO...(1644)

Sustainable Credits

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LEED v4 - Building Design & C...(30861)

LEED v4 - Interior Design & Co...(29826)

ASHRAE 189.1(28693)

Australian Green Star - Education(26896)

Green Guide for Health Care 2.2(26675)

Certification

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Welcome to the trusted source for credible sustainable product information.

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Audience



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**ASSA ABLOY**

The global leader in door opening solutions

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30

Manufacturer / Brands [View all](#)

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Product Type [View all](#)

Furniture (19314)

Flooring (8872)

Surfacing Materials (5485)

Textiles (3691)

Cleaning Products/Systems (3074)

Company Statements

Transparency (26)

UniFormat [View all](#)

E Equipment & Furnishings (20280)

C Interiors (9798)

D Services (1013)

B Shell (148)

A Substructure (92)



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MasterFormat®

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12 00 00 FURNISHINGS (26009)

09 00 00 FINISHES (7286)

10 00 00 SPECIALTIES (4418)

33 00 00 UTILITIES (2049)

02 00 00 EXISTING CONDITIONS (1740)

Sustainable Credits

View all

LEED v4 - Building Design & Co... (31168)

LEED v4 - Interior Design & Con... (30257)

ASHRAE 189.1 (28769)

Australian Green Star - Education (27126)

Green Guide for Health Care 2.2 (26876)

Certification

View all

GREENGUARD Certification (43203)

GREENGUARD Gold Certification (32769)

ECOLOGO Certification (6841)

Environmental Product Declarati... (771)

Recycled Content - Claim Validat... (509)

Standard Number

View all

UL 2818 - 2013 Standard for Ch... (42906)

Architects & Designers

SPOT facilitates the selection of credible green products, enabling the design community to leverage the Building Information Modeling (BIM) workflow.

Manufacturers

As a manufacturer, the key to targeting purchasers and specifiers who are specifying green products is the ability to showcase your sustainable product attributes by certification, sustainable credit and more.

Purchasers

Whether you're searching building materials or clean products, SPOT has credible complete sustainability information all in a single tool.

SPOT for Revit™ Now Available.

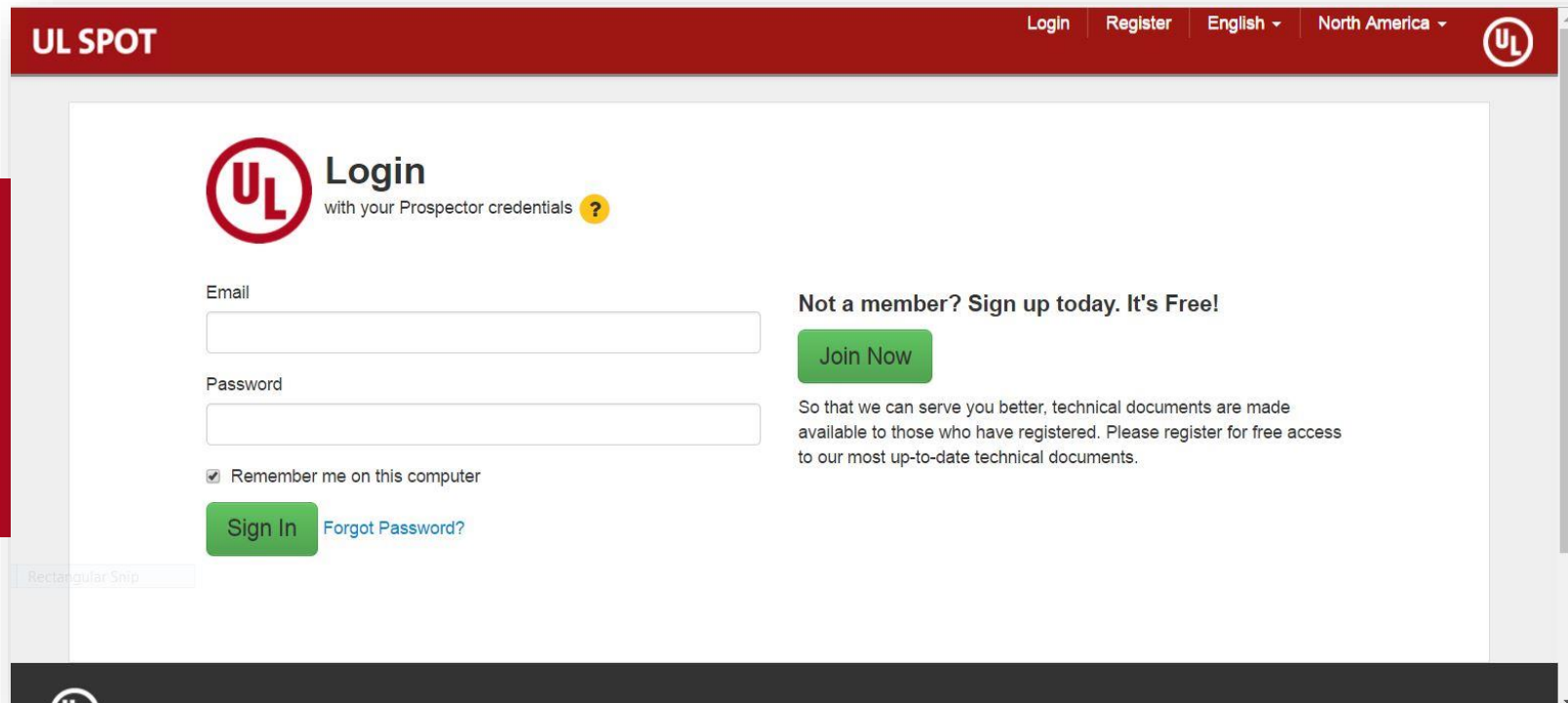
Are you a BIM project user?

The SPOT app for Revit™ provides unprecedented visibility into trusted green product information, enabling greater accuracy in green building reporting and certification to regional, national and international building standards.

Download the add-in and sign up for updates about the SPOT add-in for Revit™.

Let Us Show You What SPOT Can Do

# INTRODUCING SPOT - LOGIN



The screenshot shows the UL SPOT Login page. At the top is a dark red header with the text "UL SPOT" on the left and navigation links "Login", "Register", "English", and "North America" on the right, followed by the UL logo. The main content area has a white background. On the left, there is a login form with the UL logo and the text "Login with your Prospector credentials ?". Below this are input fields for "Email" and "Password", a checkbox for "Remember me on this computer", a green "Sign In" button, and a blue link for "Forgot Password?". On the right, there is a section titled "Not a member? Sign up today. It's Free!" with a green "Join Now" button. Below this, a paragraph states: "So that we can serve you better, technical documents are made available to those who have registered. Please register for free access to our most up-to-date technical documents." At the bottom left of the main content area, there is a small button labeled "Rectangular Ship". The bottom of the page features a dark grey footer with the UL logo on the left.

UL SPOT

Login Register English North America

UL

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with your Prospector credentials ?

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Password

☒ Remember me on this computer

Sign In [Forgot Password?](#)

Not a member? Sign up today. It's Free!

Join Now

So that we can serve you better, technical documents are made available to those who have registered. Please register for free access to our most up-to-date technical documents.

Rectangular Ship





Q Enter Search Keywords Q

Manufacturer / Brands View all

click view all above to see list

Product Type View all

Furniture (1)

Flooring (1)

Surfacing Materials (5485)

Textiles (3691)

Cleaning Products/Systems (3074)

Company Statements

Transparency (26)

UniFormat View all

E Equipment & Furnishings (20280)

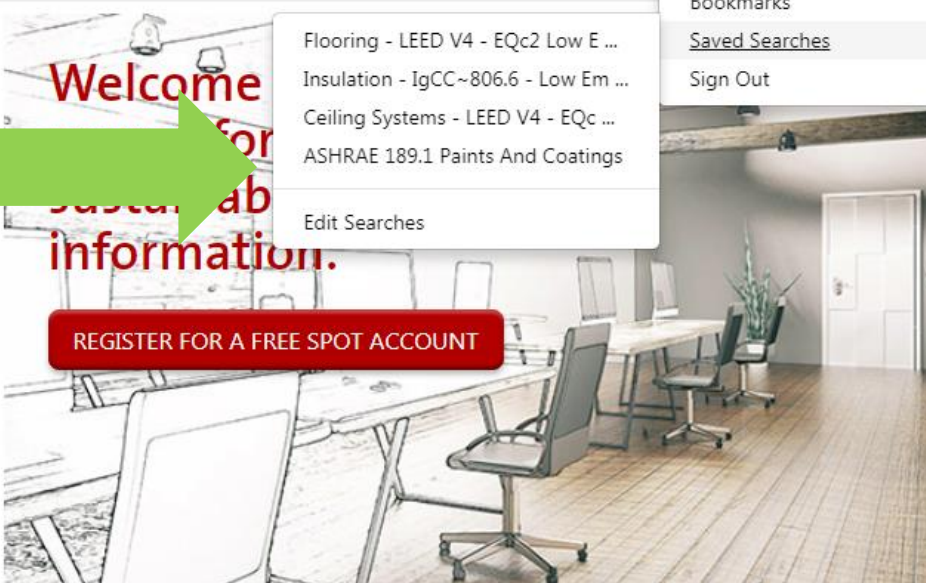
C Interiors (9798)

D Services (1013)

B Shell (148)

A Substructure (92)

Home > Built Environment



Over 45,000 products. Easily searchable. Empowering trust.

Audience

- Region: **North America**
- Industry: **Built Environment**
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We Create chemistry



Material and design expertise met the challenge for an integrated oil pan

Module design carries oil up hill and reduces weight by 41%



## UL SPOT



Enter Search Keywords



## Manufacturer / Brands

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- ☐ Sherwin-Williams Company (87)
- ☐ PPG Coatings (Shanghai) Co.,L... (62)
- ☐ Behr Process Corporation (62)
- ☐ AKZO NOBEL SWIRE PAINTS (... (54)
- ☐ Valspar (41)

## Product Type

[View all](#)

- Paint (356)
- Decorative Finishes (44)
- High Performance/Industrial Co... (31)
- Tints (10)
- Stains and Transparent Finishes (6)

## UniFormat

- C Interiors (283)

## MasterFormat®

- 09 00 00 FINISHES (418)

Home &gt; Built Environment &gt; ASHRAE 189.1 &gt; Paints and Coatings



688 Results

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"PPG PITTSBURGH  
PAINTS® WONDER-  
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Liquid Nails

This high-quality paint  
surfaces like walls, trim,  
masonry, primed metal,  
provides a more was  
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PAINTS® WONDER-  
TONES™ Interior Latex  
Flat

PPG Pittsburgh Paints

This high-quality paint  
surfaces like walls, trim,  
masonry, primed metal,  
provides a more was  
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6-2 SPEEDHIDE®  
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PPG Paints

Speedhide Interior Latex  
alkyd or latex finish  
semigloss finishes. T



ceings or primed plaster, wallboard,

wood, masonry, and primed metal. Available in four sheens Flat, Eg-She, Low Sheen, Semi-Gloss and every color, plus Primer

Manufacturer Keywords:

Paint Latex Flat Interior sherwin

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## Documents

UL Certification

[GREENGUARD Certification 14047-410](#)

[GREENGUARD Gold Certification 14047-420](#)

[Product Lens \(ProMar 200 Zero VOC Interior Latex Flat B30-2600 Series\) 14047-4500](#)

Datasheet

[Product Lens 14047-4500](#)

Specification Sheet

[ProMar 200 Zero VOC Interior Latex Flat B30-2600 Series](#)

Brochure

[ProMar 200 Zero VOC](#)

[MSDS / SDS](#)

[MSDS / SDS](#)

[Certification Statement](#)

[ProMar 200 Zero VOC Interior Latex Flat B30-2600 Series Environmental Product Declaration](#)

## Categories

### UniFormat Categories

- [C Interiors ~ C30 Interior Finishes ~ C3010 Wall Finishes ~ C3010100 Wall Finishes ~ C3010110 Wall Finishes - Paint](#)

### Standard Number Categories

- [UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings](#)
- [UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings](#)

### Product Type Categories

- [Paints and Coatings ~ Paint ~ Interior Architecture](#)

### Sustainable Credits Categories

- [WELL ~ WELL Feature 4 : Part 1](#)
- [LEED v4 - Interior Design & Construction ~ EQ Credit 4: Indoor Air Quality Assessment - Option 1: Air Testing](#)
- [LEED v4 - Interior Design & Construction ~ EQ Credit 2: Low-Emitting Materials](#)
- [LEED v4 - Interior Design & Construction ~ EQ Credit 1 - Enhanced Indoor Air Quality Strategies - Option 2D](#)
- [International Green Construction Code ~ A108.5 : TVOC Project Elective](#)

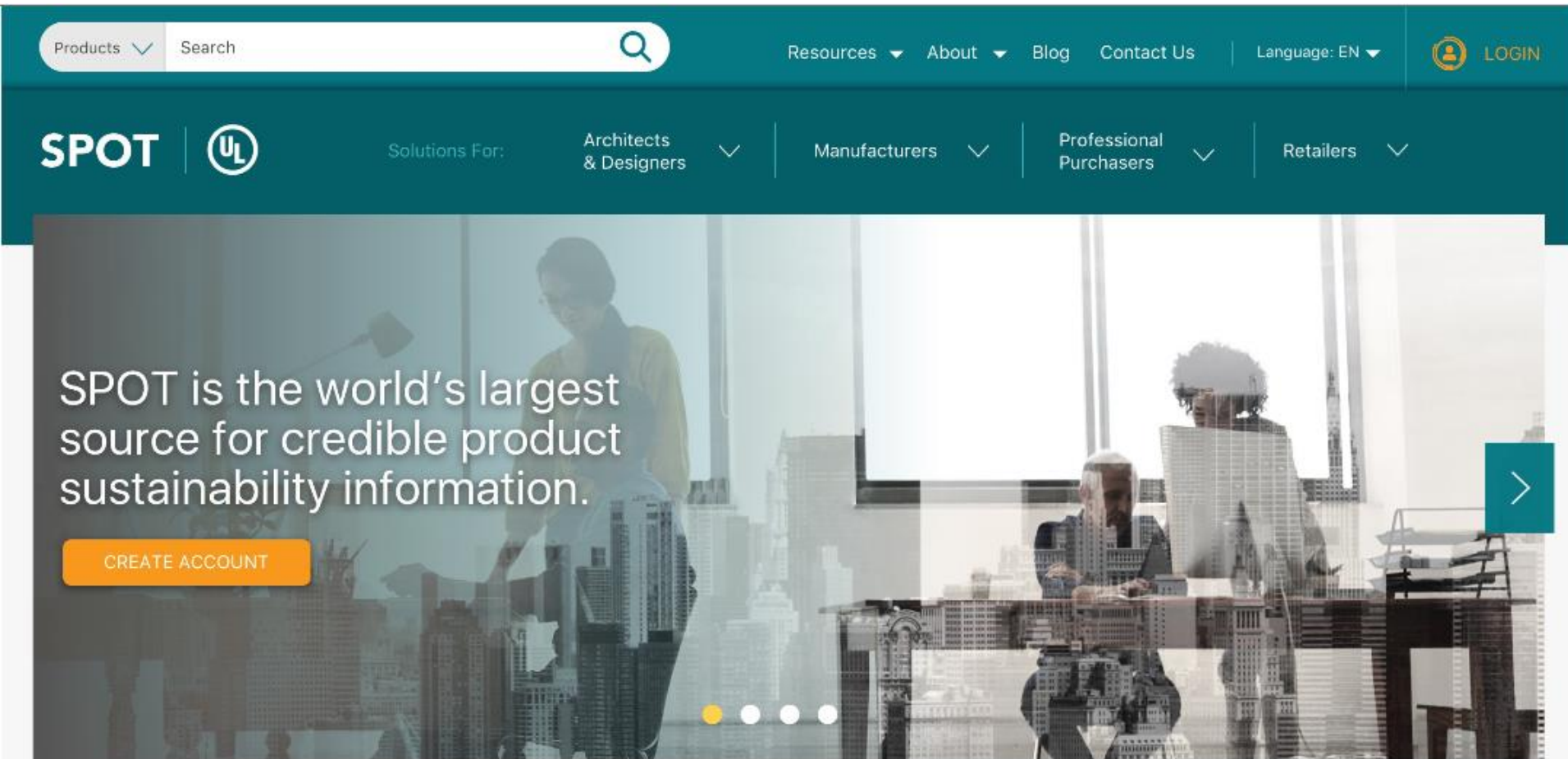
# PARTNERS





**SPOT 2.0!**

# SPOT Homepage



# Search for Product Information

Credible, Comprehensive, Collaborative Product Search.



## Manufacturers / Brands

Lorem ipsum dolor sit amet  
consectetur adipiscing elit, sed do



## Product Type

Lorem ipsum dolor sit ametc onsec  
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## Master Format

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## Standard Numbers

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## Certifications

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## Sustainable Credits

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& Designers ▾

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Professional  
Purchasers ▾

Retailers ▾

# My Projects

Lorem ipsum dolor sit amet, consectetur  
adipiscing elit. Sed venenatis bibe.

## Key Features

Save product searches to easily  
retrieve product information

Save project documentation

Invite others to collaborate on  
your projects

CREATE A PROJECT

## Current Projects



### The Smith Building

Last Updated: 3/23/2018



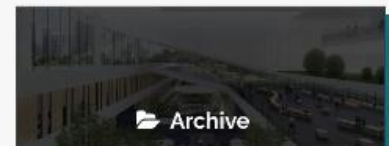
### The Smith Building

Last Updated: 3/23/2018



### The Smith Building

Last Updated: 3/23/2018



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### The Smith Building

Last Updated: 3/23/2018

MY PROJECTS

UMass Lowell Library

- PROJECT OWNER

Stacey Smith
- PROJECT TYPE

Institution Library
- BUILDING OR PROJECT SIZE

4785 SQF
- RATING SYSTEM

Loreum Ipsum
- BUILDING LOCATION

Umass Lowell Campus  
1234 West St  
Lowell, MA 27893
- DEADLINE

May 2019

PROJECT DESCRIPTION/NOTES

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Or contact me:

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**Josh.I.jacobs@ul.com**

**678-559-8848**

