The HPD is a teenager!



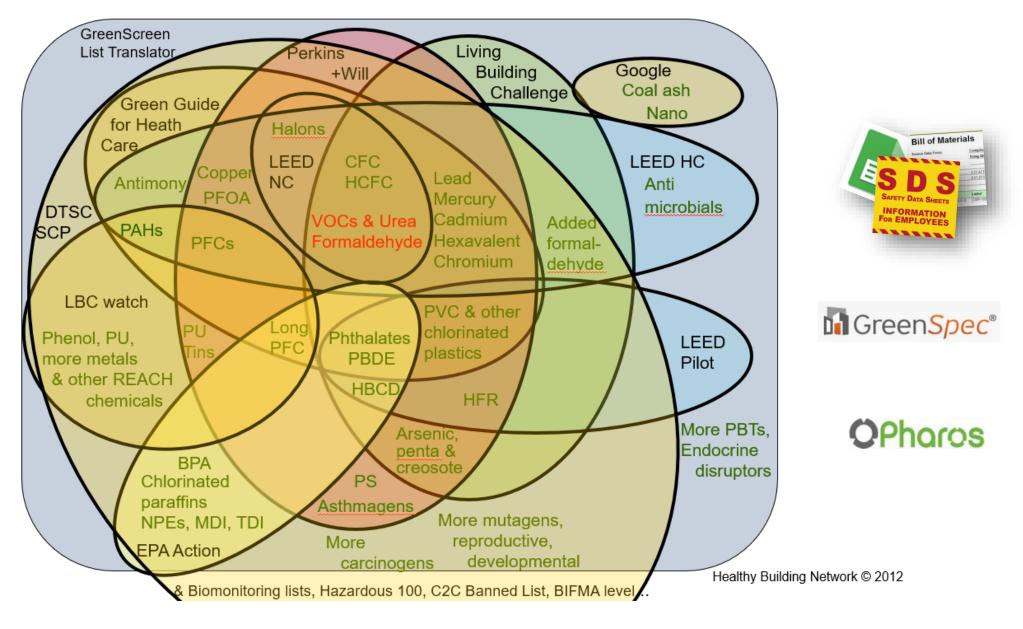
Joz Manzi, Portland, OR

Born: July 2011



HPD, IslandWood SDL Summit



















12 Years Later

ЗМ 41zero42 A&A GREEN PHOENIX GROUP JOINT STOCK COMPANY Activar Construction Products Group Advanced Fiber Technology Aeroflex USA AHE Products Allegion Allwood Group Alpha Systems, LLC. American Gypsum Company American Metalcraft Inc Amorim Cork Flooring Andersen Corporation Andreu World Angelus Block Co., Inc. Arabian Ceramics Manufacturing Company Limited Arabian Fiberglass Insulation Company LLC. Arbor Wood Co. Archifibe Inc. Architex International Arconas Corporation Arcoplast ARDEX Americas Arktura LLC Armin Josef WUENSCH PLASTER Factory Co. Armourcoat Ltd ARXX BRASIL SA ASI ASI-Southeast Aspecta ASSA ABLOY Babcock-Davis Bansiyi Overseas LLP BASF Corporation BEAM Consolidated Behr Paint Company Belair Office Products Bendheim LLC Benjamin Moore & Co. Bentzon Carpets ApS Biomason Bio-Plastic Solutions, LLC Bradley Corp Brava Roof Tile Bremworth Carpets and Ruas Ltd C.F. Stinson, LLC Caesarstone Cambria CaraGreen Carnegie Fabrics

Carpets International Thailand Public Company Limited Casla Group Catalyst Acoustics Group CEMCO CementPro CEMEX OPERACIONES MEXICO SA DE CV Ceramiche Mutina spa CETCO Chemetal ClarkDietrich Clarus Clayworks Clopay Commscope Concertex Construction Specialties. Inc. Continuus Materials Cooperativa Ceramica di Imola CornellCookson CDG - Cloverdale Paint /

Duvaltex

America

Company

Emirates Steel

Engineered Floors

EUROPA PROFIL

EXA Ceramics Company

ALUMINIUM SA

Emeco

Evonik

Elkay Manufacturing

Excel Dryer FabriTrak Systems Inc Fibo AS Fidelity Industries Inc. Fischer FZE Flexco Corporation Florim USA, Inc. Forms+Surfaces FreeAxez LLC Galleher LLC GCP Applied Technologies Georgia-Pacific Gypsum LLC Gilasi Glen Raven, Inc. Global Integrated Flooring Solutions Goldray Industries Ltd Gordon Inc. Granorte GRATO SL greenscreen GULF COAST PAINT MFG Handsome Plastics Co., Ltd. Hanpsy Organic Mattresses mitin Inc.

Jotun A/S

KCC

K.N. Crowder

Kaufman Products

Kelly-Moore Paints

Key Resin Company

Kinetics Noise Control

Kingspan Access Floors Ltd

Kohler Co. Krug Inc. Kuberit USA LLC Kvadrat A/S Lamboo Technologies, LLC LATICRETE International LDI Solutions, LLC Le Groupe Légerlite Leviat NA Lexington Manufacturing. LLC Linea Ceiling and Wall Systems Luna Textiles LX Hausys America, Inc. Mada Gypsum Company mafi America Inc. Marray, Inc. Martin Brattrud McGrory Glass, Inc. Momentive Performance Materials Momentum Textiles &

Kingspan Insulation LLC

Knauf Insulation

Panel Rey S.A. Parklex Prodema USA Pawling Corporation Pecora Corporation Peintures MF/MF Paints Phifer, Inc. Pilkington United Kingdom Limited Pioneer Millworks Pokarna Engineered Stone Limited PoliLam Co LTD Poly-America, L.P. Polyguard Products, Inc. PPG Architectural Finishes. PROMA Adhesives Inc. Prosoco Prysmian Group PYROCHILL Solutions. Inc. Pyroguard Ltd QGC Quanex Building Products Radmat Building Products RAK Ceramics Rector Seal LLC

Steeler Inc

Stonhard

CLOSED

Flooring

Stego Industries

Stockton Products

Summit International

SULB COMPANY B.S.C.

Terrazzo and Marble Supply Inc. Textile Mania Ltd The AZEK Company The Euclid Chemical Company The Metraflex Company The Mitchell Group The QUIKRETE Companies, LLC The Rug Company The Senator Group The Sherwin-Williams Company Thermory USA THRACE Nonwovens & Geosynthetics SA Tile Council of North America Tnemec Company, Inc. Tower Sealants Transgulf Readymix Concrete Co. (LLC) Trespa International BV Trinseo Twitchell Technical Products, LLC UFS Ultrafabrics Inc. Unika Vaev CT Unilock Vermont Natural Coatings Vescom America, Inc. Vestre

Super Stud Building

Talleres de Escoriaza

Tapmaster Incorporated

Superior Essex

Swavelle Group

Wilsonart LLC

Woodwright Hardwood Floor

Y. STERN ENGINEERING

York Wallcoverings Inc.

Wolf Gordon

Company

1989 LTD

Products

T2Earth

Takeform

Tarkett Technistone, s.r.o. ter Hürne GmbH & Co. KG TerraMai Terratinta Group Srl SB Mechoshade Systems, Inc. npitecture Inc. Approaching iry Compani TX Industr LCIM MEXICO Published Hape The Published Hap **ERACIONES** 3BELL INC LAWARE) PREMIS NG DIV Coatings, Inc. National Ready Mixed RPG Acoustical Systems Concrete Assn. - Alexandria. Rulon International INU Industries Designiex DOMOCHEMICAL SA Saint-Gobain Ecophon AB Innovant, Inc. Don Construction Products Inpro Corporation Naturepedic Organic Saudi Vetonit Co.Ltd dormakaba Inscape Corporation Mattresses Senneca Holdings International Cellulose **Dunn-Edwards Corporation** naughtone Senses Akustik Pvt Ltd **Duracryl International** Corporation Newmor Wallcoverings SEOHAE TECH CO.,LTD ISI Building Products Duratherm Nexii Building Solutions SIKA HELLAS Isolatek International Niles Building Products Co. Duratherm Window Siplast ISOMAT S.A. Novalis Innovative Flooring SITURA, Inc. Corporation Skyline Design Italgranitigroup Novawall Systems, Inc. Eco Safety Products iVekter Inc / ezoBord Nox Corporation Sloan Ecore International Jae Young Chemical Co., Nystrom Solomon Colors, Inc. VItra Factory GmbH Edelman Leather Ltd. Object Carpet GmbH Soprema Inc. Wallworks Acoustic Architectural Products Inc. : OKITE Southwire Company LLC Ege Carpets A/S Jazeera Factory for Paints Elastizell Corporation of Co. Omnis Panels LLC Specified Technologies Inc. Head Office JLC-Tech OMNOVA Solutions Inc. Spinnevbeck Welspun Flooring Limited

OneFlor USA

Oregon Door

Pallas Textiles

Ceramiche S.p.A.

Pair LLC

Optima Products Ltd

PACKAGE PAVEMENT

Panariagroup Industrie

PABCO Gypsum

Harmonized Ecosystem





CONSISTENCY WITH OTHER PROGRAMS

(C2CPII)

Pre-checked for LEED v4 Option 1. Pre-checked for LEED v4.1 Option 1.

Usable Information



Social Equity Data

Materials Pledge

Participating firms pledge to:

- support human health by preferring products that support and foster life throughout their life cycles and seek to eliminate the use of hazardous substances.
- support social health & equity by preferring products from manufacturers that secure human rights in their own operations and in their supply chains, positively impacting their workers and the communities where they operate
- support ecosystem health by preferring products that support and regenerate the natural air, water, and biological cycles of life through thoughtful supply chain management and restorative company practices
- support climate health by preferring products that reduce carbon emissions and ultimately sequester more carbon than emitted.
- support a circular economy by reusing and improving buildings and by designing for resiliency, adaptability, disassembly, and reuse, aspiring to a zero-waste goal for global construction activities.

Clarity of Goals



Intrinsic to our material selection philosophy is the knowledge that many substances, ubiquitous in the built environment, cause harm to people and the natural environment. On each project, we set out to avoid the chemicals of concern listed below, and with each effort, come one step closer to a world free of these dangerous chemicals.



EXTERNAL Environmental Concerns

Polyvinyl Chloride (PVC) + Chlorinated PVC (CPVC)

The production of PVC is extraordinarily toxic and energy intensive, and there are no safe outcomes at the end of its useful life. Its negative impacts bear heavily on lower income and minority communities that live near production and incineration facilities. These inequitable societal and environmental costs

PVC Roofing Vinyl Windows Plastic Wall Protection Fabrics + Window Coverings

Per and Polyfluorinated
Substances (PFAS)
PFCs are reproductive toxins and endocrine proports that are extremely persistent and bioaccumulate and proportion of the proportion

Antimicrobial se develor orital and matter of the second original control or the search of the second original control or the search or the search or the second original control or the search original control or the second or the second original control original control or the second original control ori

Arsenic, Cadmium, Chromium,

Lead, Mercury

These toxic metals are extremely hazardous in very small doses, especially to young children. In addition to some architectural products where they can be avoided, they are found in plumbing and electronic equipment, batteries, and fluorescent lighting.

Alkylphenol Ethoxylates

APEs are endocrine disruptors that bioaccumulate in the environment. It is unclear at this time how prevalent their use is in the products we specify.

CFC, HCFC, HFC

These substances contribute substantially to global warming. Regulations are gradually phasing out the worst of these, along with those that are ozone-depleting.

Metal Plating Fly Ash Recycled Content in Carpet

Products with Recycled PVC Rubber Flooring with Recycled Tires

XPS + Spray Foam Insulation



Formaldehyde

Formaldehyde is readily emitted into interior environments causing respiratory and other short and long term health issues. Options for ultra-low emitting or no-added formaldehyde are typically available.

Composite Wood Products

Halogenated + Organophosphate Flame Retardants

Flame retardants are associated with lower IQ and hyperactivity n children, hormone disruption and reduced fertility in adults, and these types are highly persistent and bioaccumulate in the environment. They often do not increase fire safety and pose

EPS/XPS Insulation Single-Ply Roofing Upholstery Foam

Antimony Trioxide Flame Retardants

Antimony Trioxide is a concerning member of the non-halogenated

Carpet Backing + Vinyl Flooring Woodwork Adhesives + Binders

Batt + Spray Applied Insulation Carpet Backing + Vinyl Flooring

Single-Ply Roofing Polyurethane + Epoxy Coatings

PET Textiles

Bisphenol A (BPA)

BPA is a reproductive and developmental toxin and endocrine disruptor that persists and bioaccumulates in the environment. It is a component of some polycarbonate plastics and epoxies and should be easy to identify in ingredient disclosure documentation.

Flooring Laminate Grout + Mortar Polycarbonate Panels/Skylights Whiteboard Paint

Isocvanates

Isocyanates are asthmagens and air pollutants. Some provide the only and preferred alternative to formaldehyde binders, but other products with isocyanates should be avoided.

Spray Foam Insulation Whiteboard Paint

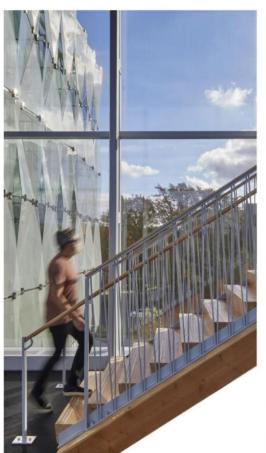
Halogenated Solvents

Solvents can cause short term health effects like headaches and contribute to long term neurodevelopmental effects and cancer. Use water-based alternatives.

Wood Finishes Adhesives

Intrinsic to our material selection philosophy is the knowledge that many substances, ubiquitous in the built environment, cause harm to people and the natural environment. On each project, we set out to avoid the chemicals of concern listed below, and with each effort, come one step closer to a world free of these dangerous chemicals.





INTERNAL Health Concerns

Formaldehyde

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Halogenated + Organophosphate Flame Retardants

Flame retardants are associated with lower IQ and hyperactivity in children, hormone disruption and reduced fertility in adults, and these types are highly persistent and bioaccumulate in the environment. They often do not increase fire safety and pose additional risks to fire-fighting personnel.

Antimony Trioxide Flame Retardants

Antimony Trioxide is a concerning member of the non-halogenated and non-organophosphate flame retardant categories.

Orthophthalates

Phthalates are developmental and reproductive toxins, endocrine disruptors, and asthmagens, and persist and bioaccumulate in the environment. They are used primarily to make materials such as PVC softer and more flexible, providing another reason to avoid vinyl products.

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Batt + Spray Applied Insulation Carpet Backing + Vinyl Flooring Single-Ply Roofing

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EXTERNAL Environmental Concerns

Polyvinyl Chloride (PVC) + Chlorinated PVC (CPVC)

The production of PVC is extraordinarily toxic and energy intensive, and there are no safe outcomes at the end of its useful life. Its negative impacts bear heavily on lower income and minority communities that live near production and incineration facilities. These inequitable societal and environmental costs are not reflected in the purchase price of PVC products, though alternatives are readily available for most applications.

Per and Polyfluorinated Substances (PFAS)

PFCs are reproductive toxins and endocrine disruptors that are extremely persistent and bioaccumulate in the environment. They are used to increase water, stain, or wrinkle resistance in products. Increased awareness of their negative impacts are

Antimicrobials are developmental and aquatic toxins. Some provide necessary product preservation, but overuse may contribute to increased antibiotic resistance. They provide no proven health benefit and should be avoided when marketed

Arsenic, Cadmium, Chromium,

These toxic metals are extremely hazardous in very small doses, especially to young children. In addition to some architectural products where they can be avoided, they are found in plumbing and electronic equipment, batteries, and fluorescent lighting.

Alkylphenol Ethoxylates

APEs are endocrine disruptors that bioaccumulate in the environment. It is unclear at this time how prevalent their use is in the products we specify.

CFC, HCFC, HFC

These substances contribute substantially to global warming. Regulations are gradually phasing out the worst of these, along with those that are ozone-depleting.

Vinyl Flooring **PVC** Roofing Plastic Wall Protection Fabrics + Window Coverings

Resilient Flooring Floor Sealant + Coatings Textiles

Countertops **Baby Changing Stations** Many Other Touch Surfaces

Wood Preservatives Glazes + Pigments Metal Plating Fly Ash Recycled Content in Carpet Products with Recycled PVC Rubber Flooring with Recycled Tires

XPS + Spray Foam Insulation





Composite Wood Products ents causing sues. Options for pically available.

osphate

EPS/XPS Insulation Single-Ply Roofing Upholstery Foam

Flame retardants are associated with lower IQ and hyperactivity

BORA PreCheck Bora Chemicals of Concern ΑII Αll ∠ Search Antimicrobials Free #HPD per Bora PreCheck Bisphenol A (BPA) Free CFC, HCFC, CFC Free Flame Retardants Free Formaldehyde Free 0.73K (8.74%) -Halogenated Solvents Free 1.49K Isocyanates Free

(17.85%)Orthophthalates Free PFAS Free PVC & CPVC Free Toxic Heavy Metals, Free Not Aligned Preferred

1.51K 4.63K (18.06%)(55.35%)

Intrinsic to our material selection philosophy is the knowledge that many substances, ubiquitous in the built environment, cause harm to people and the natural environment. On each project, we set out to avoid the chemicals of concern listed below, and with each effort, come one step closer to a world free of these dangerous chemicals.





Automated Tools to Make Material Health Evaluation Fast, Easy and Accessible for Every Project

Composite Wood Products nents causing sues. Options for

pically available. osphate

EPS/XPS Insulation Single-Ply Roofing Upholstery Foam

> Batt + Spray Applied Insulation Carpet Backing + Vinyl Flooring

> Single-Ply Roofing Polyurethane + Epoxy Coatings

PET Textiles

Flame Retardants

Flame retardants are associated with lower IQ and hyperactivity in children, hormone disruption and reduced fertility in adults, and these types are highly persistent and bioaccumulate in the environment. They often do not increase fire safety and pose additional risks to fire-fighting personnel

Screening Against Other Chemical Hazards Lists

Indication of whether the product contains chemicals included in the specified lists for this program.

Polyvinyl Chloride (PVC)

+ Chlorinated PVC (CPVC)

The production of PVC is extraordinarily toxic and energy

life. Its negative impacts bear heavily on lower income and

alternatives are readily available for most applications.

Per and Polyfluorinated

Substances (PFAS)

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EXTERNAL Environmental Concerns

Vinyl Flooring **PVC** Roofing

Vinyl Windows

Resilient Flooring

Plastic Wall Protection

Fabrics + Window Coverings

Hazard List	Sublist	Alignment
Bora's CoC	Alkylphenol Ethoxylates	✓
Bora's CoC	Antimicrobials	✓
Bora's CoC	Bisphenol A (BPA)	✓
Bora's CoC	CFC, HCFC, HFC	✓
Bora's CoC	Flame Retardants	✓
Bora's CoC	Formaldehyde	✓
Bora's CoC	Halogenated Solvents	✓
Bora's CoC	Isocyanates	✓
Bora's CoC	Orthophthalates	✓
Bora's CoC	PFAS	×
Bora's CoC	PVC & CPVC	✓
Bora's CoC	Toxic Heavy Metals	✓

Content Screening Results

Substances included in chemical hazards lists specified for this program.

Sublist	Substance	casrn
PFAS	Polytef	9002-84-0

Carpet Backing + Vinyl Flooring Woodwork Adhesives + Binders kins, endocrine cumulate in the erials such as

> Flooring Laminate Grout + Mortar

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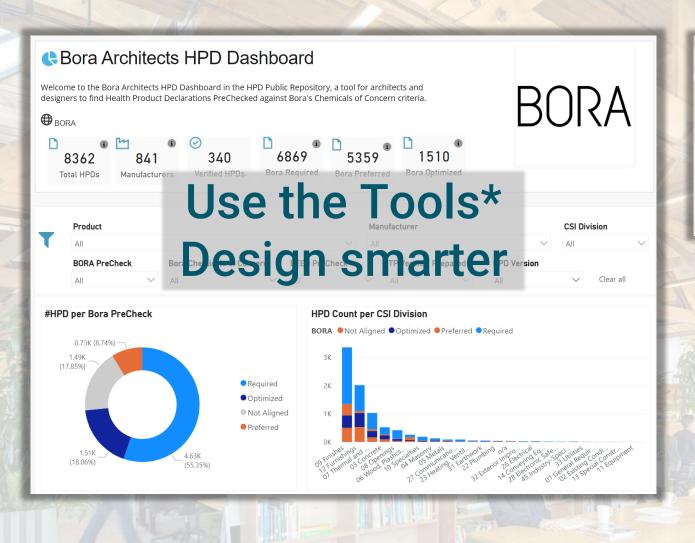
Spray Foam Insulation

Whiteboard Paint

Paints **Wood Finishes**

Polycarbonate Panels/Skylights

leadaches and is and cancer



Material Health ToolSuite™

Automated Tools to Make Material Health Evaluation Fast, Easy and Accessible for Every Project

*Available for HPDC members: As low as \$825/firm or \$175/individual Practitioner