

Full Disclosure: the Health Product Declaration

Eden Brukman
TECHNICAL DIRECTOR

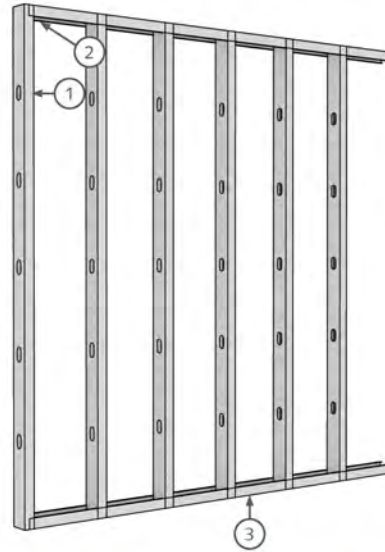


www.HPDCollaborative.org



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- Metal Framing (1)
- Fasteners (2)
- Sealant (3)

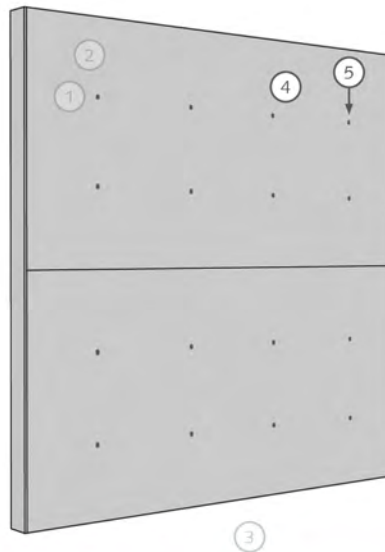


Product complexity

www.HPDcollaborative.org

Image courtesy of Boora Architects

- Metal Framing (1)
- Fasteners (2)
- Sealant (3)
- Gypsum Board (4)
- Fasteners (5)

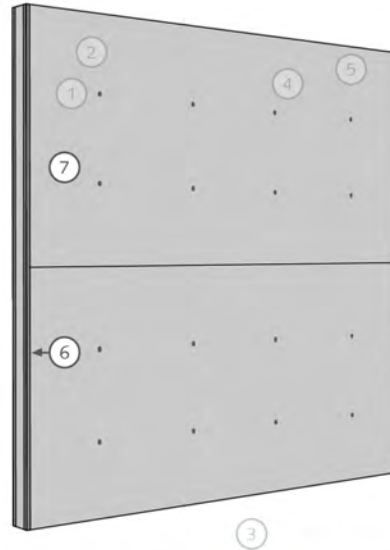


Product complexity

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Image courtesy of Boora Architects

- Metal Framing (1)
- Fasteners (2)
- Sealant (3)
- Gypsum Board (4)
- Fasteners (5)
- Metal Trims (6)
- Fasteners (7)

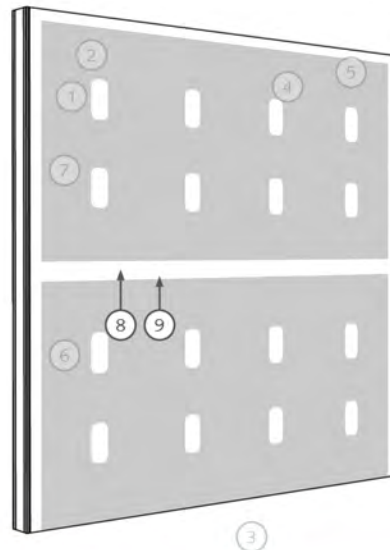


Product complexity

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Image courtesy of Boora Architects

- Metal Framing (1)
- Fasteners (2)
- Sealant (3)
- Gypsum Board (4)
- Fasteners (5)
- Metal Trims (6)
- Fasteners (7)
- Tape (8)
- Joint Compound (9)



Product complexity

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Image courtesy of Boora Architects

Metal Framing	(1)
Fasteners	(2)
Sealant	(3)
Gypsum Board	(4)
Fasteners	(5)
Metal Trims	(6)
Fasteners	(7)
Tape	(8)
Joint Compound	(9)
Primer	(10)
Paint	(11)

Product complexity

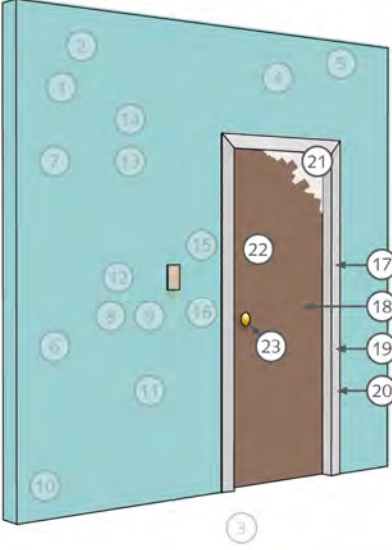
www.HPDCollaborative.org Image courtesy of Boora Architects

Metal Framing	(1)	Back Box	(12)
Fasteners	(2)	Conduit	(13)
Sealant	(3)	Wire	(14)
Gypsum Board	(4)	Fasteners	(15)
Fasteners	(5)	Cover Plate	(16)
Metal Trims	(6)		
Fasteners	(7)		
Tape	(8)		
Joint Compound	(9)		
Primer	(10)		
Paint	(11)		

Product complexity

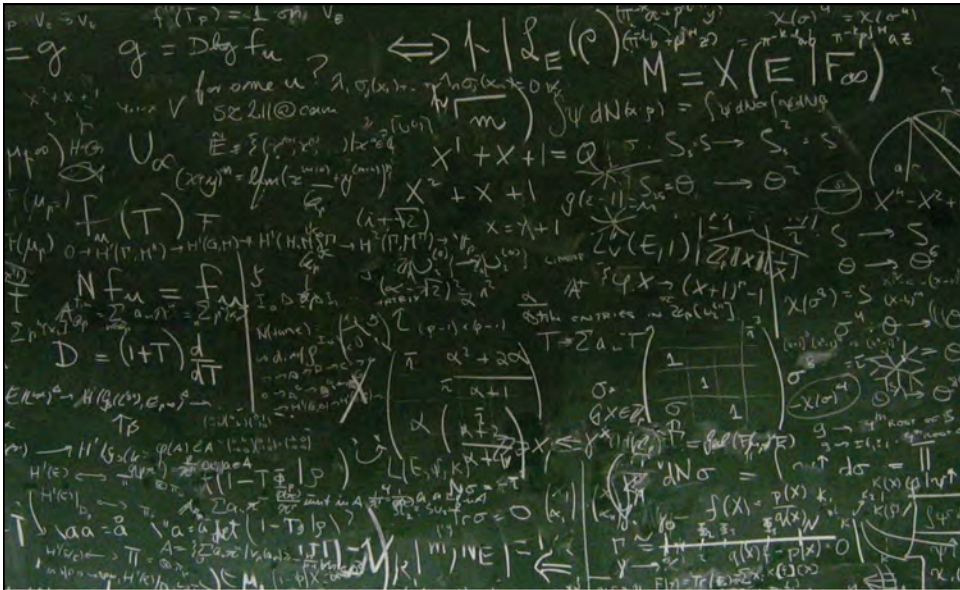
www.HPDCollaborative.org Image courtesy of Boora Architects

Metal Framing	①	Back Box	⑫
Fasteners	②	Conduit	⑬
Sealant	③	Wire	⑭
Gypsum Board	④	Fasteners	⑮
Fasteners	⑤	Cover Plate	⑯
Metal Trims	⑥	Door Frame	⑰
Fasteners	⑦	Door	⑱
Tape	⑧	Fasteners	⑲
Joint Compound	⑨	Caulk	⑳
Primer	⑩	Primer	㉑
Paint	⑪	Paint	㉒
		Hardware	㉓



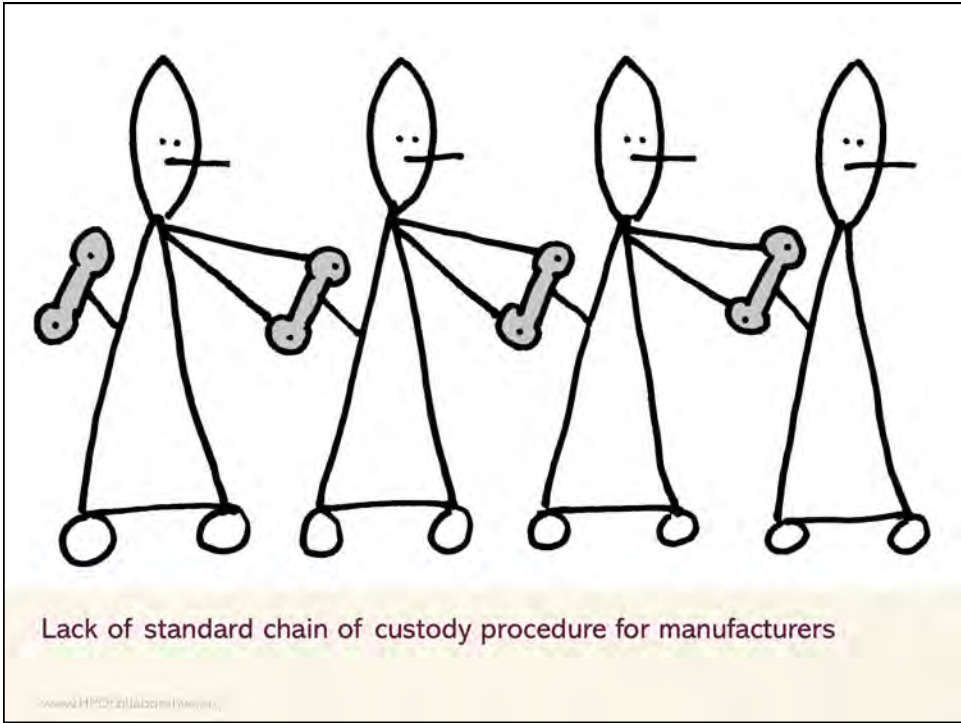
Product complexity

www.HPDCollaborative.org Image courtesy of Boora Architects



Specialized jargon & complex chemistry themes

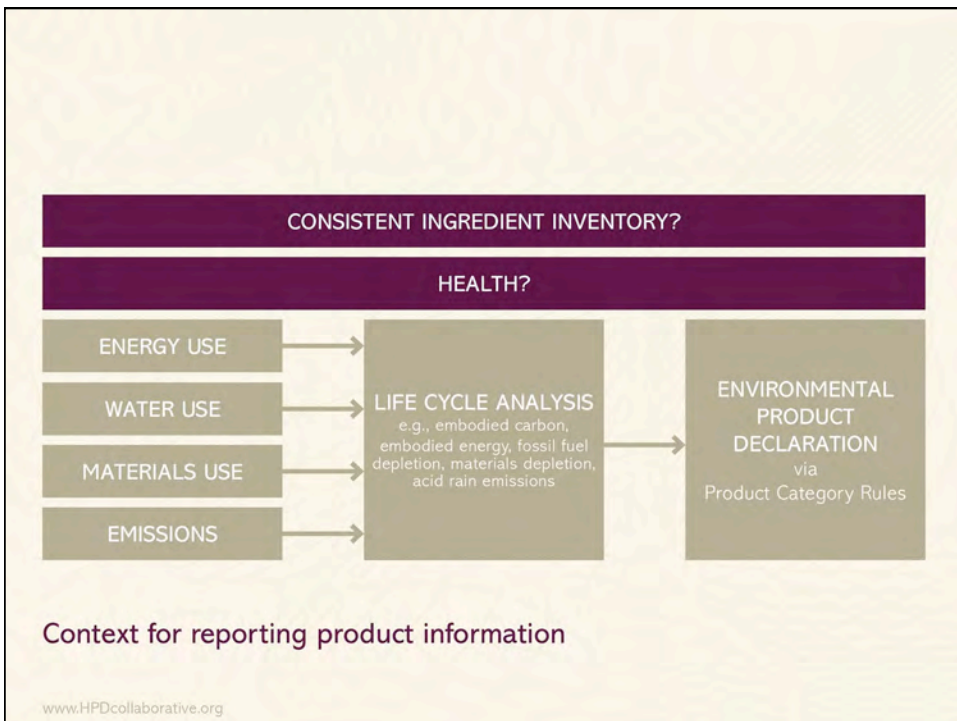
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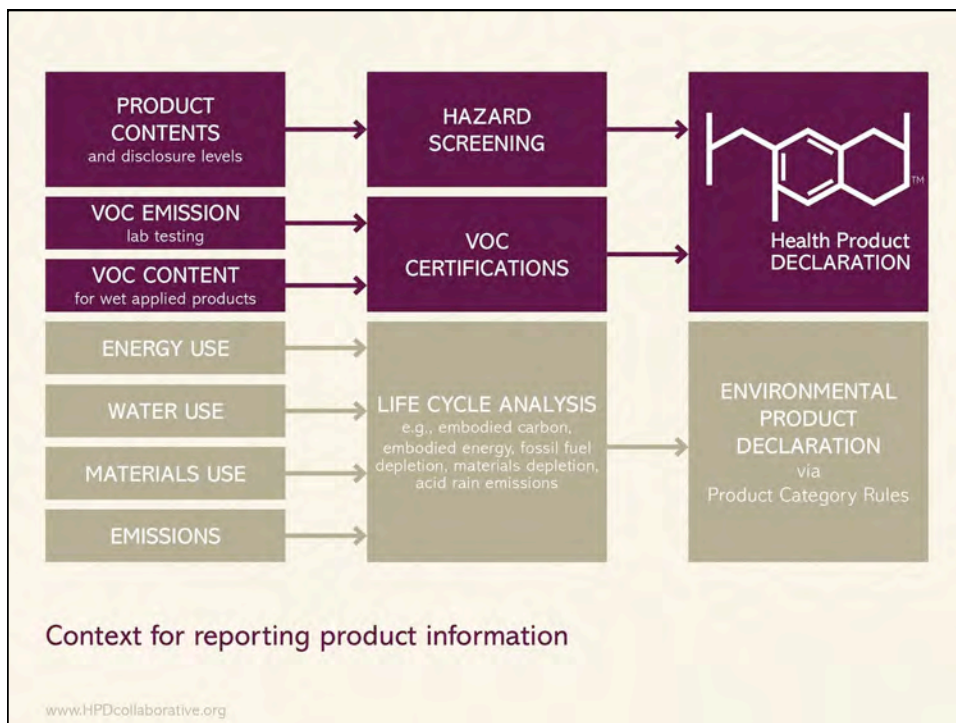
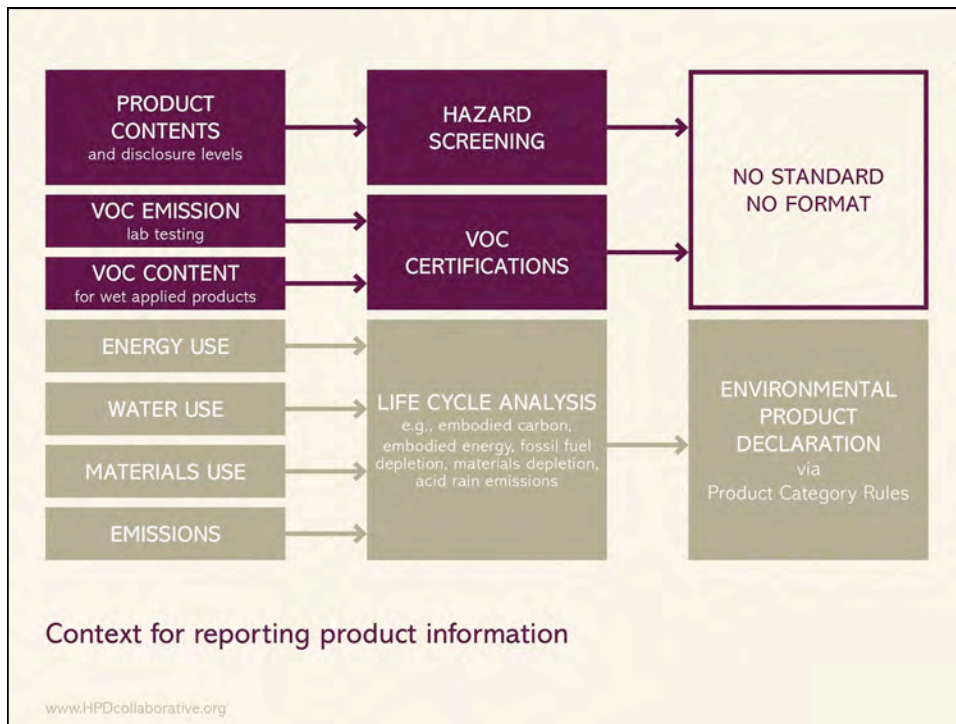


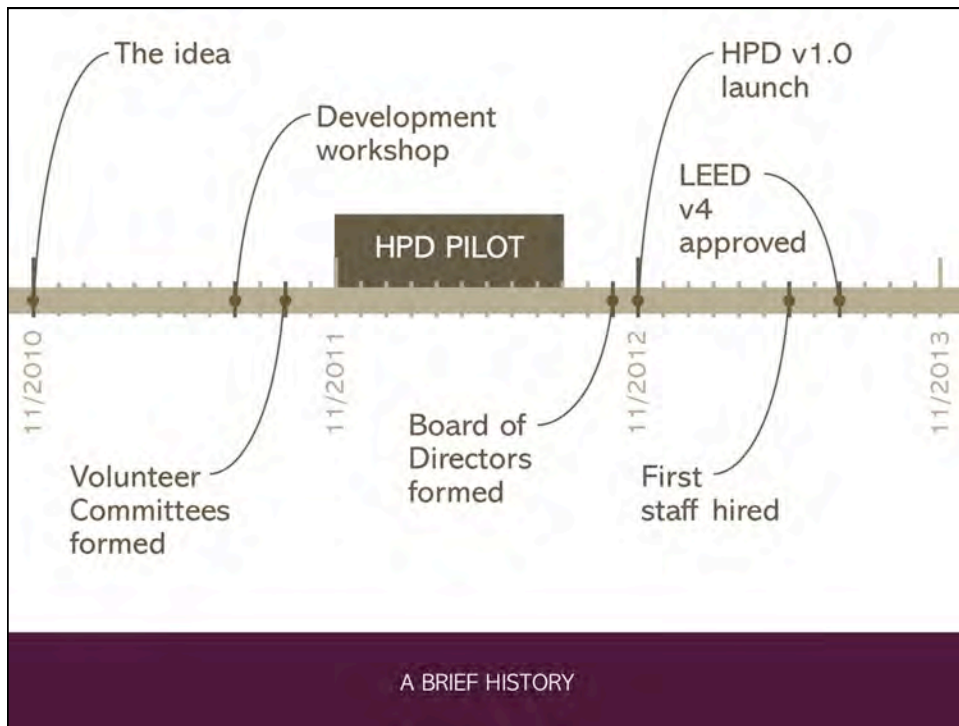


Poor communication about expectations

www.HPDcollaborative.org







TOP REASONS FOR PARTICIPATING:

1. Corporate responsibility
2. To promote transparency
3. To have a market advantage

HPD PILOT 2011: MANUFACTURER SURVEY RESPONSES

BIGGEST CHALLENGES IN COMPILING INFORMATION:

1. Extensive data required
2. Supplier resistance
 - Lack of information
 - Lack of time
3. Internal resistance
4. Too many standards

HPD PILOT 2011: MANUFACTURER SURVEY RESPONSES

RANGE OF ROLES AND SKILL SETS:

- Technical Engineering
- Procurement
- EHS | Sustainability | Lifecycle Assessment
- Manufacturing Plant management | Production
- Research and Development
- GHS of Classification + labeling chemicals (for SDS)
- Legal
- Sales
- Senior Leadership
- Suppliers' staff

HPD PILOT 2011: MANUFACTURER SURVEY RESPONSES

WHAT MANUFACTURERS ENJOYED MOST ABOUT PARTICIPATING:

“Having a voice in the process and an opportunity to learn more about what a segment of the market wants.”

“Helping make transparency an industry norm by facilitating this often-difficult transition for manufacturers.”

“Learning that we are actually pretty close to being able to ‘launch’ a new green product offering.”

HPD PILOT 2011: MANUFACTURER SURVEY RESPONSES

the
Health Product
DECLARATION is...

a consistent language
for product ingredient reporting

an essential part of the
materials ecosystem

a free online tool for
manufacturers

www.HPDCollaborative.org

...the content of this product was assessed for health hazard warnings as required using

Residuals Disclosure

- Measured 100 ppm
- Measured 1000 ppm
- Predicted by process chemistry
- As per MSDS (1,000 & 10,000 ppm)
- Not disclosed
- Other

...Contents in Descending Order of Quantity

**CONTINUOUS IMPROVEMENT...
START WHERE YOU ARE**

Health Product Declaration
Variable disclosure levels

www.HPDCollaborative.org

INVENTORY OF INGREDIENTS AND HAZARDS - AS INFORMATION IS KNOWN

Health Product Declaration

Variable disclosure levels

www.HPDCollaborative.org

INGREDIENT HAZARD SUMMARY AT A GLANCE

Health Product Declaration

Hazards Summary

www.HPDCollaborative.org

Name _____ Classification _____
 Product ID _____
 Website _____
 Manufacturer _____ Contact Name _____
 Address _____ Title _____
 Address Line 2 _____ Phone _____
 City, State, Code _____ Email _____
 Description _____

Release Date: Self-published
 Expiry Date: Second Party
 HPD URL: Third Party

SUMMARY
 The content of this product was assessed for health hazard warnings, neurotoxicity, and physical hazards.

Neurotoxicity **Land toxicity**
Physical hazard

Highest concern GreenScreen score - Benchmark 1
 Highest concern GreenScreen score: no ingredients benchmarked

HIGHEST LEVEL INGREDIENT GREENSCREEN SCORE CARRIED FORWARD

Health Product Declaration Hazards Summary
 www.HPDCollaborative.org

The HPD standard is a voluntary assessment of product content and associated health hazards associated with exposure to the product. It is not a full assessment of environmental impacts from the life cycle of the product. It is not an assessment of risk associated with direct use of the product. It does not address the potential health impacts of substances present in consumer making materials that do not appear in the final product or materials, use substances created during combustion or other degradation processes.

This Health Product Declaration was generated following the requirements of the related Standard version and is valid for a limited time after date of issue or three months after a substantive change of product content occurs. Users should verify that their Product Declaration is compliant with the most current version of the HPD Standard. Accuracy of claims made in this Health Product Declaration is the sole responsibility of the issuer, manufacturer and/or other applicable parties. The HPD Collaborative does not warrant, claim, or imply any liability for the use of this HPD Standard in any "open market" developed and managed by the HPD Collaborative. For more information, visit <http://hpdcollaborative.org>.

CONTENT IN DESCENDING ORDER OF QUANTITY
 All ingredients must be assessed for health warnings against Priority Hazard Lists, regardless of disclosure level. Priority Hazard Lists and associated GreenScreen Benchmarks can be found at www.hpdcollaborative.org/hazardlists. GS: GreenScreen Benchmark, RC: Recycled Content, PC: Post Consumer, PI: Post Industrial (Pre-consumer), BO: Both post industrial and consumer, None: comprised of nonorganic perfluorinated compounds.

Ingredient Name	Waring	CAS number	% Wt/WT	RC	PI	BO	None
Hazard A	Warning A						
Hazard B	Warning B						
Hazard C	Warning C						
Hazard D	Warning D						
Hazard E	Warning E						
Polysiloxane							
Hexabromocyclododecane (HBCDD)							
PBT							
Development							
Endocrine							
Reproductive							
Aquatic toxicity							
Multiple							

Allows foam insulation to meet the stringent fire safety requirements of the chemical industry has announced the development of a flame retardant is currently used in...

Flame Retardant
CONTEXT FOR INGREDIENT SCREENING HAZARD DATA
 Health Product Declaration Ingredient Inventory
 www.HPDCollaborative.org

This HPD Standard is solely a declaration of product claims and does not constitute an assessment of health risks associated with exposure to the product contents. It is not a full assessment of environmental impacts from the life cycle of the product. It is not an assessment of risk associated with actual use of the product. It does not address the potential health effects of substances used or created during manufacturing that do not appear in the final product as residuals, use substances created during transportation or other distribution activities.

The Health Product Declaration was developed following the requirements of the revised Standard version and is valid for a total of three years after date of issue or three months after a substantive change of product contents occurs. Users should verify that the Health Product Declaration is compliant with the most current version of the HPD Standard. Accuracy of claims made in the Health Product Declaration is the sole responsibility of the listed manufacturer and contributor (if applicable). The HPD Collaborative does not assume any liability for health claims, specific or implied. The HPD Standard is an "open standard" developed and managed to be a community standard maintained by the community. Visit <http://hpdcollaborative.org>.

CONTENT IN DECREASING ORDER OF QUANTITY

All ingredients must be assessed for health warnings against Priority Hazard Lists, regardless of disclosure level. Priority Hazard Lists and information on the GreenScreen Benchmarks can be found at www.hpdcollaborative.org/hazardlists.
 GS: GreenScreen Benchmark, RC: Recycled Content, PI: Post Industrial (Pre-Consumer), EO: Both post industrial and post consumer, Nano: composed of nanoscale particles or nanotechnology.

Ingredient Name	CAS number	% Weight	GS	RC	Nano	EO
Hazard A	Warning A					
Hazard B	Warning B					
Hazard C	Warning C					
Hazard D	Warning D					
Hazard E	Warning E					
Notes						

life with long lasting effects

1-2% BM1 No No Flar

review (also in EU PBT, WA PBT, OR P3, or the unborn child

**INGREDIENT-SPECIFIC DETAILS
SPACE FOR
GREENSCREEN BENCHMARK +
LIST TRANSLATOR INDICATOR**

**Health Product Declaration
Ingredient Inventory**

www.HPDCollaborative.org

CERTIFICATIONS AND COMPLIANCE

Certifying Party - Self declaration: Manufacturer's self-declaration; **Independent lab:** Manufacturer's self-declaration using results from an independent lab and laboratory of certification; **Second Party:** Verification by trade association or other interested party; **Third Party:** Verification by independent certifier (e.g., ISO 9001).

Applicable Facilities - Manufacturing sites to which testing applies.

Type	Standard or Certification	Certifier or Laboratory
	Certifying Party Issue Date Expiry Date	Certificate URL
	Applicable Facilities	Certification & Compliance

VOC Content

Recycled Content

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Standard or Certification

Certifier or Laboratory

Certifying Party Issue Date Expiry Date Certificate URL

Applicable Facilities Certification & Comp

**PRODUCT LABELS, TESTING, OR
OTHER SUBSTANTIATED CLAIMS**

**Health Product Declaration
Certifications and Compliance**

www.HPDCollaborative.org

1. **IDENTIFY** fill out product description.
2. **INVENTORY** collect + list product contents.
3. **SCREEN** review contents against Authoritative Lists.
4. **COMPLIANCE** provide details of testing and compliance.
5. **ACCESSORIES** note accessory materials.
6. **SUMMARIZE** confirm data, add explanatory notes, date.
7. **PUBLISH!** share with your customers.


CREATING A HEALTH PRODUCT DECLARATION

 **greenwiz**
information to build on

 **GPD The Source**

 **Pharos**

 **SPECSIMPLE.com**

 **GreenSpec®**

PRODUCT DATABASES – HPD 'LIBRARIES'

CREDIT INTENT

To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products for which the chemical ingredients in the product are inventoried using an accepted methodology and for selecting products verified to minimize the use and generation of harmful substances. To reward raw material manufacturers who produce products verified to have improved life-cycle impacts.



"BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION - MATERIAL INGREDIENTS"



LETTERS OF COMMITMENT ISSUED BY DESIGN FIRMS



image @KirkTeske, HKS Architects

TRANSPARENCY FORUMS – “REVERSE LUNCH AND LEARNS”



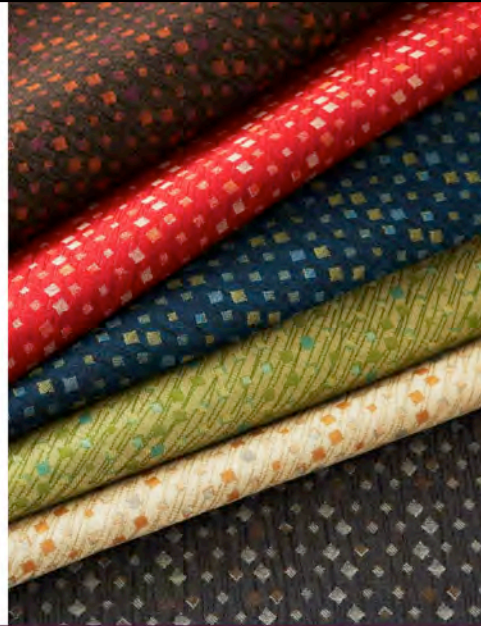
inpro.

“We at Inpro believe Environmental Product Declarations (EPDs) and Health Product Declarations (HPDs) are the most effective tools to communicate product content and environmental impact.”

MANUFACTURERS CHAMPIONING THE CAUSE

Carnegie

“Carnegie is a firm believer that product transparency is an essential component of sustainable design. The generation of HPDs fits seamlessly with our product development approach. We are proud to be the leading provider of HPDs in the textile industry.”



MANUFACTURERS CHAMPIONING THE CAUSE

view

WHY DID WE PURSUE AN HPD?

1. *“It was a growing interest with thought leaders and our leading customers.”*
2. *“It is absolutely the right thing to do.”*

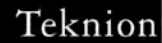


MANUFACTURERS CHAMPIONING THE CAUSE



"3form as a company has been working for a long time to do the right thing simply because it is the right thing. HPDs give us a way to showcase these efforts in a fact-based platform outside of marketing materials, which can be construed as green washing."

MANUFACTURERS CHAMPIONING THE CAUSE



"Our biggest commitment has to be that we are willing to listen and react to industry partners that have evidence based science on these issues; and to address the issues quickly and cost effectively. We have to push forward and continue to change and evolve as good stewards of the planet and the people who occupy it. It sounds simple. But it's a difficult task. "

MANUFACTURERS CHAMPIONING THE CAUSE

“While a single elevator product can easily contain over 10,000 parts, we are committed to the highest level of transparency with our customers.”

MAP: 51 companies, and counting!



MANUFACTURERS ADVISORY PANEL (MAP)

“We believe it should be easy for designers and building owners to know what is in building products. This is the promise of the Health Product Declaration.”

- Mikhail Davis, Interface (2012)

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