The AIA Materials Pledge

Presenters: Sara Tepfer, Arup and Lona Rerick, ZGF Architects LLP Q&A to follow

1.0 HSUs





Learning Objectives

1. An introductory understanding of the AIA Materials Pledge.

2. Understand how to educate your firm on the AIA Material Pledge and have the knowledge needed to advocate for adopting healthy materials to both colleagues and clients. (firm wide collaboration)

3. Overview of the Prescription for Healthier Materials Protocol Guidebook and the Mindful Materials service.

4. Be aware of evolving practices in specifying healthy materials, tracking, and documenting (to client/spec book). Participants will be introduced to sourcing/product research practices and tools and be able to integrate these protocols within their design and specification work.

AIA MATERIALS PLEDGE

HOLISTICALLY SUSTAINABLE MATERIALS:

From Aspiration to Action



What is the Materials Pledge?











Materials Pledge Concept

Modeled on 2030 Challenge and AIA 2030 Commitment



Step 1: COMMON ASPIRATIONAL DEFINITIONS

Define holistically sustainable building materials



Step 2: METRICS AND REPORTING SYSTEM

Define the data points to measure improvement



AIA 2030 Commitment Progress against pEUI targets, 2010-2021

Holistic Materials Selection (AIA Materials Pledge)





Human Health

Climate Health

Social Health + Equity

Support **Human Health** by preferring products which support and foster life throughout their life cycles and seek to eliminate the use of substances that are hazardous.

Support **Climate Health** by preferring products which reduce carbon emissions and ultimately sequester more carbon than emitted.

Support Social Health +

Equity by preferring products from manufacturers who secure human rights in their own operations and in their supply chains, and which provide positive impacts for their workers and the communities where they operate. Support **Ecosystem Health** by preferring products which support and regenerate the natural air, water, and biological cycles of life through thoughtful supply chain management and restorative company practices.

Ecosystem

Health

Circular Economy

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.

https://www.aia.org/pages/6351155-materials-pledge

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AIA Materials Pledge

Architects and Designers commitment to holistically sustainable building materials

EACH OF US PLEDGE TO

- Continue asking for transparency and better products.
- Continuously improve and update our specifications and procurement processes to require transparent and optimized products.
- Collaborate and share best practices, tools, and education.
- Support Human Health by preferring products which support and foster life throughout their lifecycles and seek to eliminate the use of substances that are hazardous.
- Support **Climate Health** by preferring products which reduce carbon emissions and ultimately sequester more carbon than emitted.
- Support Ecosystem Health by preferring products which support and regenerate the natural air, water, and biological cycles of life through thoughtful supply chain management and restorative company practices.
- Support **Social Health and Equity** by preferring products from manufacturers who secure human rights in their own operations and in their supply chains, and which provide positive impacts for their workers and the communities where they operate.
- Support a **Circular Economy** by reusing buildings and materials; and by designing for material efficiency, long life, and perpetual cycling.

STARTER GUIDE



This guide is not meant in any way to provide professional advice. If professional advice or other expert assistance is required, the services of a licensed professional should be sought.

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Committed Design Firms

Over 200 signatory companies





From Materials Pledge to Action



Materials Action Plan



Ask for Transparency

Specify products with and ask product reps for disclosure of product sustainability attributes.



Identify measurable baselines and specific targets for improvement.



Update and Create Tools

Green your specifications, identify unbiased resources, and create tools to measure and support success.



Education

Continuously learn and share your knowledge.









Ask for Material Ingredients Disclosure

Avoid Known Chemicals of Concern

Specify products with full ingredient information. Prefer 3rd-party verified **Health Product Declarations** at 100ppm. Prefer products without ingredients identified by trusted experts such as those identified in GSPI's **Six Classes** or the Living Building Challenge **Red List**.

Prefer Local, Natural Materials

Choose materials with ingredients that you can pronounce. Prefer natural materials.





Climate Health



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Ask for Environmental Product Declarations (EPD)

Specify products with EPDs and ask manufacturers to provide them where there are gaps in the market.

Choose Low Embodied Carbon (GWP)

Use tools like EC3 and Tally to inform carbon smart material choices.

Prefer Biobased Materials

Plants and trees sequester carbon through photosynthesis as they grow. This carbon benefit can be locked into a durable building material like wood.









Ask About Slavery and Labor Practices

Ask companies about their **modern slavery and labor policies**, including their supply chain. Prefer companies with B Corp or JUST certifications, and/or with a strong corporate labor policy.

Avoid Known Chemicals of Concern

Highly processed and chemical laden materials from petroleum disproportionately affect low income and BIPOC **Fenceline Communities**.

Prefer Local And Reclaimed Materials

Choose sustainable materials that support and build small business and support local economies.









Ask about environmental stewardship

Ask how the product supports soil, air, and water health throughout the supply chain. Prefer FSC wood, C2C, and other low-impact certifications.



Choose low-impact and ideally regenerative materials

Prefer materials with provable biological benefits.

Prefer Natural Materials

Sustainably grown plants and trees naturally clean the air, water, and soil and can be perpetually replenished.





Ask About Product Circularity

Ask building product companies about their take back programs.

Enable circularity through an inventory of any existing materials and product labeling and planning for new.

Detail for Deconstruction

Avoid products which fuse or adhere dissimilar materials. Prefer **mechanical connections**

that allow today's buildings to be **material banks** for tomorrow's projects.

Healthy + Durable or Compostable Materials

Prefer materials which are durable, can be perpetually remade into high quality products, or compostable. In other words, materials should either be technically or biologically circular.





PAE Portland Living Building - 58,000 GSF. 5 stories.



CalSTRS Headquarters Expansion - 512,000 GSF. 10 stories.



CalSTRS Headquarters Expansion - 512,000 GSF. 10 stories.

Product Disclosures

Which product transparency documents contribute to Materials Pledge goals?



م ک EPD **Health Product Declarations (HPD)** are a standard reporting format for disclosing product ingredients and associated health information.

EPDs are life cycle assessments of the environmental impacts of products based on at least cradle to gate scope (extraction through manufacturing).



FSC certification verifies that **FSC 100%**, **FSC Mixed**, and **FSC Recycled** products are audited by an independent third party to confirm they are managed according to FSC's rigorous social and environmental standards throughout their full chain of custody.



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Declare.

Declare product labels are building material "nutrition labels" which quickly identify whether products contain any of the "worst in class" chemicals on the Living Building Challenge Red List.

The **Living Product Challenge** is a framework for manufacturers to create products that are healthy, inspirational and give back to the environment.

Cradle to Cradle (C2C) holistic product certification that rates materials in five categories: Material Health; Material Reutilization; Water Stewardship; Renewable Energy & Carbon Management; and Social Fairness.

\triangleright	То	
Send	Cc	I
	Subject	CaISTRS H2O – Red List review / product information request
E Ca 64	ISTRS H2O_Manu KB	facture Red List Compliance Form.pdf V IBC_Red List CAS RN Guide.xls

Dear Name of Rep,

We are researching materials to be installed in the CalSTRS Headquarters Expansion in West Sacramento, California. The project's goals include Living Building Challenge Red List Free materials, LEED v4 Platinum and WELL v2 Gold certification. Your product(s) is (are) currently under consideration to be included in the project specifications.

To complete our screening of your product, please provide us with the following:

- Proof of compliance with the Living Building Challenge Red List: Please complete the attached "CalSTRS H20 Red List Compliance Form" for each proposed product which meets Red List chemical restrictions (as reviewed against the attached "LBC_Red List CAS RN Guide"). Any of the following are forms of acceptable Red List documentation:
 - a. Declare Product Label: Unexpired, either a "Red List Free" or "LBC compliant" type.
 - b. Health Product Declaration (HPD): Showing no Red List ingredients and disclosed to 100ppm.
 - c. Cradle to Cradle full or Material Health product certification plus a list of the product ingredients from the manufacturer showing that it is Red List Free.
 - d. Manufacturer Inventory: A self-declared product content list showing no Red List ingredients and disclosed to 100ppm.
 - e. Documentation that the product is compliant with a current Living Building Challenge Red List exception as defined by the International Living Future Institute.
- 2. Location of the product's final assembly.
- 3. For all wood products, proof that the product is FSC 100% certification and/or salvaged.
- 4. Low-emitting materials:
 - VOC content in grams per liter (g/L).
 - b. CDPH v1.1 or v1.2 VOC emissions compliance.
- 5. All applicable documentation available for your product(s) from the following list:
 - a. Environmental Product Declaration(s) specific to
 - b. Information about company's product take-back programs.
 - c. Bio-based content.
 - d. Recycled content: Include a breakdown pre-consumer and post-consumer percentages.

ZGF also encourages you to share this valuable information with the greater design community by participating in the mindful MATERIALS database. mindful MATERIALS is a design industry initiative that provides a common platform for manufacturers to clearly communicate transparency and optimization information for their building products. Find out more at www.mindfulmaterials.com.

Thank you,

Name / email signature of person sending request to manufacturer.



RED LIST-FREE MATERIALS

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PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Materials Transparency Material ingredients: For each product, provide copies of all available current product disclosures.
 - 1. At a minimum, products must provide at least one of the following:
 - a. Health Product Declaration (HPD).
 - b. Declare Label.
 - c. Cradle to Cradle product certification.
 - d. Cradle to Cradle Material Health certification.
 - Product disclosures used to document proof of compliance with the Living Building Challenge Red List must meet additional requirements defined in Section 013329 – Sustainable Design Reporting.
- B. Materials Transparency Environmental Product Declarations: For each product, provide copies of all available current product disclosures. At a minimum, products must provide at least one of the following:
 - Industry-wide EPD: Third-party verified, current, and includes the specific manufacturer and product type as a listed participant.
 - 2. Product-specific EPD: Third-party verified, current, and specifically for the product.
- C. Low-Emitting Materials: Products must meet VOC Content Limits and General Emissions Evaluation requirements as specified in Section 016116 - Volatile Organic Compound (VOC) Restrictions. The work of this Section includes the following categories of applicable products:
 - 1. Adhesives, sealants and caulks.
 - Carpeting.
- D. Chemicals of Concern:
 - Products may not contain any chemical ingredients from the following lists as defined in Section 016000 - Product Requirements:
 - a. Living Building Challenge (LBC) v3.1: Red List.
 - b. WELL Building Standard v2: MATERIALS Concept.

TILE CARPETING Print date: 2/27/2019 096813 - 3

Declare.

Your Product Your Company

Final Assembly: City, State, Country Life Expectancy: 000 Years End of Life Options: Recyclable (42%), Landfill

Ingredients:

Living Building Challenge Criteria:

XXX-0000

Declaration Status

Your First Ingredient (Locally Sourced Location, ST), Sustainably Sourced Ingredient (Location, ST), Non-toxic Item (Location, ST), Living Building Challenge Red List*, Another Componant, US EPA Chemical of Concern, Last Ingredient

VOC Content: 0.00 mg/m³ VOC Emissions: CDPH Compliant

MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY

Declared

INTERNATIONAL LIVING FUTURE INSTITUTE* declareproducts.com

EXP. 11/11/2011

LBC Red List Free LBC Compliant **End-of-life options:** take-back programs, salvageable or reusable in its entirety, recyclable (%); landfill; hazardous waste.

Ingredient are reported by component. Ingredients without restriction appear in grey; Red List chemicals appear in dark orange; EPA COC and REACH chemicals appear in light orange. (Reported raw material extraction locations are listed in parenthesis.)

Declare Identifier for company and product, valid for 12 months.

VOC Information and CDPH Compliance.

Verification that product complies with Living Building Challenge Red List.



The Bigger Movement



Clients with Sustainable Materials Standards

Who demands sustainable building standards be met on their projects?



Kaiser Permanente

KP is a leader in healthier materials including those used in building and furnishing their facilities.



Harvard

Harvard is committed to science-based healthy and low carbon materials as documented in the <u>Harvard Green</u> <u>Building Standards</u>.



Microsoft

Microsoft has committed to being <u>"Carbon</u> <u>Negative by 2030"</u>. This includes targeting low carbon or carbon sequestering building materials to minimize embodied carbon on all new construction.

Google

Google is a leader in healthier building materials with its own healthy materials project standards and specification guidelines.





Salesforce

Salesforce is committed to healthy and sustainable materials standards for their building projects. <u>sustainability-healthy-</u> <u>materials-workplace.pdf</u> (salesforce.com)

San Francisco City/County

San Francisco has its own set of health and environmental standards called <u>SF</u> <u>Approved</u> which include requirements for a growing list of building materials.

The Common Materials Framework

Mapping and digitization of sustainable building materials information



PUBLIC MATERIALS PLEDGES HAVE ALIGNED THE BUILDING INDUSTRY AROUND A COMMON LANGUAGE, AND A NORTH STAR, FOR HOLISTIC MATERIAL SUSTAINABILITY.

THE COMMON MATERIALS FRAMEWORK IS OUR ROADMAP TO GET THERE FASTER, TOGETHER



mindfu MATERIALS

Together Mapping the Materials Landscape

CONTENT ADVISORY BOARD (CAB)

BRIGHTWORKS IN Hightower' Perkins&Will EWING COLE

Gensler 🕑 SFIL Manue Michael

CONTENT WORKING GROUP (CWG)

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Humanscale'	Deltek	Ranak Toward and	DIALOG	ASSA ABLOY	@ Tarkett		PENNINE
National Gypsum.	Turner	DLR Group	8	-	ANDERSEN	HM FH	11111
D fivD	VAPRO ^{\$} SHIELD	sico	E BOCKWOOL	BRIGHTWORKS	ZGF	hlw	EXCITATION AND ADDRESS OF THE
1-01-071	SMS	SBO	Steelcase	Perkins&Will	O SFIL		

ECOSYSTEM PARTNERS





Common Materials Framework: How it supports the Materials Pledge

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A&[) Pledge Bucket Description	CMF Sub-Buckets	Example Programs + Standards Referenced (full list to be released with Reference Guide)
	HUMAN HEALTH	substances	HPD, Declare, C2C, BIFMA, LPC, GreenCircle CEF
2	support HH by preferring products that support and foster life throughout their life	VOCs	CDPH, SCS Indoor Advantage, GreenGuard, BIFMA, SCAQMD
	cycles and seek to eliminate the use of hazardous substances.	Company human health impacts	Chemical Footprint Project, LPC, BIFMA, C2C
فتحر	CLIMATE HEALTH Support CH by preferring	embodied carbon	LCA, EPD, EC3, LPC, GreenCircle (GC) CEF
Ĩ	products that reduce carbon emissions and sequester more carbon than emitted.	company carbon	SBTi, CDP, GRI, GC Carbon Footprint Reduction, GreenCircle Certified Environmental Facts
		pollution	BIFMA, C2C
м	ECOSYSTEM HEALTH Support EH by preferring	LPC, C2C, BIFMA, GreenCircle CEF, WaterSense	
	regenerate the natural air, water, and biological cycles of	Water footprint (company)	Global Water Footprint Assessment Standard, Alliance for Water Stewardship, CDP, GRI, B-Corp
	chain management and restorative company practices	Biodiv & Conserv.	LPC, C2C, SCS Environmentally Preferable Product Certified, FSC, SFI, BIFMA
		Life cycle envir. impacts	LCA, EPD, TRACI (US EPA)

A&D	Pledge Bucket Description	CMF Sub-Buckets	Example Programs + Standards Referenced (full list to be released with Reference Guide)
	SOCIAL HEALTH & EQUITY Support SH+E by preferring	Supply chain	ILO, FSC, C2C, LPC, Copper Mark, PEFC, Design for Freedom
2	human rights in operations and in supply chains, positively impacting workers +	JUST, B-Corp, UN Glob. Comp.,, C2C, LPC, BIFMA	
	operate	rkers + where they Community BIFMA, JUST, FSC Certified	
		Sourcing	FSC, SFI, USDA Biobased, ANSI 373 Sustainable Stone, C2C, LPC, BIFMA, Ecologo
<i>~</i>	CIRCULAR ECONOMY Support CE by reusing and improving buildings and by	End of life	C2C, LPC, GreenCircle Closed Loop Product Certification, UL claims, SCS claims
ŝ	designing for resiliency, adaptability, disassembly, and	I', Packaging FSC, SFI, LPC, C2C, USDA Biobased	FSC, SFI, LPC, C2C, USDA Biobased
	reuse, aspiring to a zero-waste goal for global construction activities.	Company circularity	C2C, TRUE certification
		Waste	TRUE Certified, LPC, BIFMA, SCS Zero Waste, NSF Landfill-free, Greencircle Zero Waste

building a foundation



Integrating sustainability data into your workflow - wherever materials selections are being made



THANK YOU

Lona Rerick, AIA, LEED Fellow ZGF Architects lona.rerick@zgf.com



AIA Healthier Materials Protocol

Introduction + Practical Applications

Sara Tepfer 10 March, 2023



AIA Context: Materials Pledge



where they operate.

practices.

Human health is one of five elements within the pledge.

https://www.aia.org/pages/6351155-materials-pledge

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AIA Context: Healthier Materials Protocol



AIA Arup Perkins + Will

With input and review from: San Francisco Dept. of Environment BuildingGreen HDR Mahlum ZGF ... many others!

Goals + Agenda

Prescription for Healthier Building Materials:

A Design and Implementation Protocol

Spring 2018

Frances Yang, SE, LEED AP BD+C, WELL AP Sara Tepfer, MS Architecture, BS Chemistry

🖲 AIA ARUP

Goal

Provide practical guidance for moving toward healthier materials, even with limited time and resources.

Agenda

- Background + Context
- Creating a plan
- Using the tools
- Resources



Background + Context



Building Context



Regulatory Context

CHEMICALS

PERCENTAGE

84,000

100% Registered in the U.S.¹

62,000 74%	Grandfathered in under TSCA ¹	
1,100 1.3%	Regulated through other federal statutes ²	
600 0.7%	Monitored Through EPA toxic release inventory ³	
200 0.2%	Tested for threat to human health + safety ⁴	
5 <0.1%	Partially regulated as a result of testing⁵	
700 0.83%	Introduced annually ⁵	



AIA ARUP

Market Context





Practical Context: Label \$#*&!







Practical Context: **Transparency** + Avoidance

ARUP



Practical Context: Transparency + Avoidance



Practical Context: Transparency + Avoidance





Creating a Plan

Prescription for Healthier Building Materials:

A Design and Implementation Protocol

Spring 2018

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AIA ARUP

1 Establish the Goal and Scope

- 2 Set Priorities within a Budget
- 3 Agree to a Target
- 4 Develop Method + Metrics
- 5 Outline Roles and Responsibilities
- 6 Assess Products and Track Progress
- 7 Ensure Successful Handoff



Project Examples



SFO Terminal 1



East Palo Alto Arts Center











Effort





1. Establish the Goal and Scope



Effort









SFO Terminal 1Goal: Require products with complete chemical disclosureScope: Interiors, core & shell

East Palo Alto Arts Center Goal: Select materials with reduced chemicals of concern Scope: Priority spaces



2. Set Priorities

Quantity/Location	Readily Available Guidance	Chemical/Toxicological Properties
Inside weatherproofing membrane	Chemical avoidance list (e.g., Red List)	Health endpoint (e.g, carcinogens)
High-touch areas inside weatherproofing membrane	Product/chemical combinations of concern	Chemical volatility/mobility
High-volume materials	Materials with readily available product information	
	Materials without readily available product information	
	Materials for which many safer alternatives currently exist	

Increasing time/expertise required



2. Set Priorities



SFO Terminal 1 Priorities: Meet LEED and WELL requirements Leverage market signal to increase industry transparency **East Palo Alto Arts Center Priorities:** High-surface area materials Wet-applied products

3. Agree to a Target

	Target
WELL BUIDE	 Number of products that meet the LEED/WELL disclosure requirements Percentage of products that meet the LEED/WELL disclosure requirements
LIVING BUILDING CHALLENGE	 All products in the project must meet Red List requirements
Other approaches	 Number of manufacturers contacted for chemical content information Number of products vetted for project



3. Agree to a Target



SFO Terminal 1Target:Obtain 40 material health disclosure documents

East Palo Alto Arts Center Target: Avoid specific chemicals of concern in specific product categories

Using the Tools

Prescription for Healthier Building Materials:

A Design and Implementation Protocol

Spring 2018

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AIA ARUP

1 Establish the Goal and Scope

- 2 Set Priorities within a Budget
- 3 Agree to a Target
- 4 Develop Method + Metrics
- 5 Outline Roles and Responsibilities
- 6 Assess Products and Track Progress
- 7 Ensure Successful Handoff



4/6. Develop Method + Metrics

Mindful Materials example

- **Goal:** Select products with transparency documentation
- **Scope:** Exterior products
- **Target:** 40 products
- Method: LEED-compliant documentation
- Metrics: Ingredient disclosure

Portal.mindfulmaterials.com

mindful MATERIALS Zipo	ode Q		PROJECTS PRODUCTS Sign U	p/Login
mM Common Materials Framework	View Comparison		Best Match	~
Product Category	batt insulation			2
Brand	1 - 18 of 4,205 results Filters:			
Certifications and Ecolabels				
Rating Systems				
USGBC X LEED®v4.1 X BD+C ID+C O+M	Knauf Insulation KN Insulation KN Insulation Category Construction Materials add to - documentation Image: Construction Construction Materials add to - documentation Image: Construction Construction Materials Image: Construction Construction Construction Image: Construction Construction Construction Image: Construction Construction Construction Image: Construction Construction Construction Construction Image: Construction Construction Construction Construction Image: Construction Constr	Knauf Insulation Knauf EcoBatt Integrated Roof Category Construction Materials Subcategory Building Insulation add to v documentation \overrightarrow{o} @ \overrightarrow{o} (\overrightarrow{o})	AttiCat Owens Corning Atticat® Loose Fill Insulation Category Construction Materials Subcategory Building Insulation add to - documentation column add to - o amountation column add to - image:	
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4. Develop Method + Metrics

HomeFree example

- **Goal:** Avoid priority product/ chemical combinations
- Scope: Interior products
- **Target:** 5 product categories
- Method: HomeFree database
- **Metrics:** Avoidance of "red" rated products

https://homefree.healthybuilding .net/products



[%]

50%

20

20

6. Assess Products + Track Progress

			Materia		SPECIFICATI	ON COORDINATION		Feature 26: Enhanced Material Safety Finishes, finish materials,	SPECIFICATION COORDINATION WELL F26	Feature 9 Transp Finishes, fini	7 Material parency ish materials,	SPECIFICA COORDINA LEED MRC Mati Ingn	
: paints, c	patings, adhesives and sealants, fl	ooring, insulation, furniture, fu	mishings		LEED IEQc2 L WELL F04	ow-emitting materials		furnishings, built in furniture	Enhanced Materials Safety	furnishings,	built in	WELL F97 Transpare	
Section	Material Description	Manufacturer Name (SD: basis of design) (DD: as specified)	BOD Produc (DD+: as sp	Notes [do you already know if this product has a certification? If found on a certification database, please provide link.]	Spec language	Sub-category		>25% by cost have: (a) Declare label (b) C2C (c) verified HPD	Spec Language	>50% by cost (a) Declare La (b) Health Pro Declaration (c) Any metho BPDO opt 1	have: abel oduct od in LEED v4	Spec Langu:	
03 35 03	Concrete	none listed	Polished exi	floor and bench, discuss sealant with GC	mandatory	 Flooring 	•	*	Preferred *		*	Preferred	
05 70 00	Bituminous paint	none listed	none listed	discuss emissions reqmnts with GC	mandatory	 Paints & Coatings 	•	*	Preferred *		*	Preferred	
05 70 00	Decorative metal panel	Amuneal	AMU-03-CH	Collaboration Areas/ Vegetation Column Wraps	inherently non-em	 Ceilings, Walls, In: 	•	-	Preferred 💌		•	Preferred	
05 70 00	Decorative metal panel	-	1 1/2" Black architect's s	Decorative Column framing		.	-	-	Preferred 💌		•		
06 10 53	Rough + Finish carpentry	none listed	none listed			•	•		Preferred 🔹		*		
06 40 00	MDF	none listed	none listed. contractor	casework + recep desk + wood panels/slots	mandatory	Composite Wood	C.A	TEGORY			Comp	liant lin	Targe
06 40 00	Particleboard	none listed	none listed. contractor	cost in abv?	mandatory	 Composite Wood 					progre	essl	
06 40 00	Wood Countertop	To match architect sample	White Oak 1			*					P 3		
06 40 00	Thermoset decorative panel	none listed	none listed		mandatory	 Ceilings, Walls, In 	Fe	ature 04 ⁻ VOC r	eduction		99%		95%
06 40 00	PLAM	Formica	Storm 912-i		mandatory	 Ceilings, Walls, In 			outout				
06 40 00	PLAM	Formica	Black 909-#		mandatory	 Ceilings, Walls, In 	Fu	rniture			17%		
06 40 00	Board Paneling	Houma	TUE2012	CARB PHase II		•	I M	Initaro					90%
06 40 00	Plastic Laminate-Faced Cabinets	none listed	Veneer core			•	Pa	ints and coating	IS		0%		
06 40 00	Plastic Laminate-Faced Counterto	none listed	Particleboar			•	1 0		,0		0 /0		
06 40 00	ABS edge banding	none listed	none listed		mandatory	 Ceilings, Walls, In 	Ad	lhesives and sea	alants		100%		
07 81 00	Intumescent paint	Albi Manufacturing	Albi clad TF	at conf room col	preferred	 Paints & Coatings 	710		alamo		10070		
07 81 00	Intumescent paint	Carboline Company	Nullifire S60	see cost abv	preferred	 Paints & Coatings 	Co	mposite wood			100%		100%
07 81 00	Intumescent paint	Isolatek	Cafco Spray	see cost abv	preferred	 Paints & Coatings 	00				10070		10070
07.81.00	Intumascent primer	none lister	none listed	eae cost abu	preferred	▼ Dainte & Coatinge	Ce	eilings, walls, ins	ulation		100%		
							Fe Sa	ature 26: Enhar fetv	nced Materia	lls	45%		25%

Feature 97: Material Transparency

LEEDv4 MRc4.1: Material Ingredients

LEEDv4 MRc2.1: EPD

55%

31

58



Resources



Resources

Prescription for Healthier Building Materials:

A Design and **Implementation Protocol**

AIA Healthier Materials Protocol

Healthier m	laterials for	mM Common Materials	View Compatition		
every level of	of engagement	Framework			
The Healthier Materials Protocol environment professionals to bet	is a first-of-its kind document in the U.S. for guiding architects and other built for understand materials composition and incorporate that knowledge into design.	Product Category	1 - 18 of 4.205 results		
The user-friend's guide is written to meet you where you are as an architect or a firm and help you to: wetch after materials for humans and the environment design and build with healthier materials understand the differences between material transparency and chemical avoidance address barriers in obtaining bay-in from peers, clienta, and the market		Grand Certifications and Ecolabels	Filters:		
		 Rating Systems 			
IF YOU ARE:	THEN START WITH:	USGBC X	1000		
matonaa kausa ano onvers	Dadigment and contrat, coving how healthism multication makes all difference entities in stigulating and markes there at play products and type healthism markes the use of their design and health considerations summaries of common disclower and optimization tools	ID+C C+M	Knauf Insulation KN Insulation Category Construction Materials		
Implementing healthier materials practices on your projects	CREATING A HIGA HING WATERAAS FAAN Oor disaate love on constay a haabin waransiy atau kotudeng - establing protein ward wage - sticing proteing within a hadget - developing inskript and assigning responsibilities - developing inskript and assigning responsibilities - ensuring a successful handlift has additiong anows		add to - documentation		
Seeking to increase engagement with stakeholders	UNDERSTANDING AND STILLING PRODUCT DISELOSURE AND OFTIKEZATION TODES Strategies to tackle common harmers, such are limited transdepties and/or encogration of value among clients, contractors, and clientages of the strategies of the manufacturers leading to immediate product systems conditing assement fork and utilized		ECOFILL		
Looking for real-world examples of healthior materials in practice	CONSIDERING INCALTHER MATERIALS IN PRACTICE Case studies looking at the different systems and strategies to incorporate halt/liver matarials. • Google creation of Portice, a project-integrated materials distates and product selection tool		Knauf Insulation Knauf EcoPill Wk Blowing Insul.		

AIA Healthier Materials Protocol Quick Guide

One-page roadmap for navigating through the protocol document.

Online database of materials that meet a range of sustainability criteria (beyond human health criteria).

Category Cor Subcategory

add to +

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HomeFree Product Guidance

Online tool for identifying safer building materials along a good-better-best spectrum.

Resources



Center for Environmental Health Furniture Purchasing Guidance

Purchasing guidance for furniture that is free of worst-in-class chemicals



Institute Six Classes

Background information about six highly hazardous chemical classes (many of which frequently appear in building materials)



Thank you

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Thank you for participating!



Become an AIAMB COTE member! Contact: Libby Barnes: <u>libby@workbenchbuilt.com</u>

