BUILDINGENERGY BOSTON

Design for Freedom: Eliminating Modern Slavery in the Building Material Supply Chain

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Curated by Christopher Nielson (Bruner/Cott Architects)

Northeast Sustainable Energy Association (NESEA) March 1, 2022

Design for Freedom eliminating modern slavery in the building material supply chain

NESEA BuildingEnergy Boston March 1, 2022

gracefarms

Grace Farms Foundation's interdisciplinary humanitarian mission is to pursue peace through five initiatives – nature, arts, justice, community, and faith – and Grace Farms, a SANAA-designed site for convening people across sectors.

Our stake in the ground is to end modern slavery and gender-based violence, and create more grace and peace in our local and global communities.











The built environment has a relationship with nature and people. Are your buildings ethically sourced, free of forced labor, as well as sustainably designed?



Design for Freedom is a movement to create a radical paradigm shift and remove slavery from the built environment.

imp





A Call to Action for practicing professionals within the ecosystem of the built environment.

DesignforFreedom.org



Design for Freedom Working Group (80+ CEOs, Principals, Industry Experts)



MASS.

\pàr.a.tus\

Pentagram

Pratt

Principles for Responsible Investment

Sciame

shp

Silman

SLADE ARCHITECTURE

SO-IL







UrbanWorks

W×**Y** Yale architecture

VERITÉ

25 million people enslaved

Occurs in every region of the world

"...all work or service that is performed **involuntarily** and under the menace of any **penalty**." (ILO)

Penalties include violence, intimidation, debt, retention of identity papers, immigration threats forced labor Work performed by a child under coercion applied by a third party either to the child or the child's parents, or work performed by a child as a direct consequence of his or her parents being engaged in forced labor. (GEMS)

160 million children between the ages of 5 and 17 years old in 2020 (ILO)

child labor

are owners subsidizing their

with slavery?

likely, yes.



There is an inverse relationship between driving costs lower and the risk of raising human cost.



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Construction is the largest global industrialized sector and at the highest risk of forced labor.

> billion dollar value of the modern slavery criminal industry worldwide

150

152 million

12 materials

(raw and composite) at highest risk of forced labor in buildings

11.4 trillion

Construction lags other industries in supply chain transparency







The next step in architecture justice must include social equity and ethical material transparency

climate justice and climate action embodied carbon movement

social equity and ethical material transparency Addressing on-site labor is only half of the equation.





Global laws forbid the use of slave labor in the built environment, yet our buildings, and the materials that go into our buildings, are heavily reliant on slave labor.

Slavery is illegal in every country. Countries are moving to make corporations more accountable.



178 jurisdictions are parties to the United Nations' Trafficking Protocol's call for prosecution, protection, and prevention. Supplementing other jurisdictions' reporting-based laws, the U.S. is using its tariff authority to prevent any products made with forced labor entering the country.

<u>all</u> forced labor produced goods as well as illegally logged timber are prohibited from importation into the U.S.

what are

the riskiest products?



raw and composite materials at the highest risk of embedded slavery



Source: Verité "Commodities Atlas" and the U.S. Department of Labor's List of Goods Produced by Child Labor or Forced Labor, Grace Farms analysis

Timber The US is the 2nd largest importer, following China



value of timber products imported into the U.S. in 2018



percentage of wood products globally used for buildings and construction. Nations producing timber at risk of forced labor and human trafficking





Pre-Fab Construction: Mass Timber

Lauded as a major innovation in the sustainable building movement, timber itself is one of the most ubiquitous building materials that is at the highest risk of forced labor worldwide.

at-risk sawnwood



BRAZIL SOFTWOOD Pine



BRAZIL & PERU HARDWOOD

Peru | White Oak and Walnut Brazil | Tropical Lumber (Teak, Mahogany, Ipe, etc.)



RUSSIA SOFTWOOD

Pine, Spruce, and Fir



RUSSIA HARDWOOD Oak, Birch, Aspen, and Elm



Textiles are found in shades and rugs, furnishings and walls; most anti-slavery efforts have been in garment production, but materials supply chains can include slave-made cotton, carpet, jute, sisal, and silk.





India and Bangladesh are the only countries in the world to produce jute in commercial quantities.

gravel & calcium chloride (concrete)









Brick is one of the most used at-risk materials. Children and adults are often held in debt bondage and breathe hazardous dust all day.







Mica is at high risk for forced labor

- Mica is used in building materials including insulation, concrete, and paint
- Mining is one of the worst forms of child labor
- Of all forms of hazardous work, mining is by far the most mortally dangerous for children

MICA PRODUCING COUNTRIES CLASSIFIED BY RISK

GUILTY OF CHILD LABOUR IN MICA MINING SUSPECTED OF CHILD LABOUR IN MICA MINING SUSPECTED OF ILLEGAL MICA MINING (HIGH RISK CHILD LABOUR) SUBSTANTIAL SHEET MICA PRODUCTION (HIGH RISK CHILD LABOUR) HIGH USAGE OF MICA MINED WITH CHILD LABOUR

what can we do as owners, designers, engineers, and construction professionals?
Call to Action

talk to your clients and colleagues about the issue add requirements to specifications and contracts

ask where materials come from use certifications and measure impact

what certifications can help identify ethical products?

There are dozens of certification and resources to help you examine your supply chain



design for freedom pilot projects

Design for Freedom pilot projects

Accelerate awareness of forced labor in building materials supply chains

Enhance Material Transparency by adding ethical labor inputs

Add to the industry's body of knowledge with ethical provenance and risk assessment research and case studies

Transform the market through pressure points and purchasing power

Design for Freedom Pilot Projects

1 1

Temporal Shift by Alyson Shotz

design for FREEDOM summit

march 31, 2022

presented by grace farms



We have harnessed the knowledge and insight of our partners and team to advance

a non-negotiable challenge:

that every building should be designed and built for freedom.

once you know you can't un-know it

and now there is a duty to act





Mahesh Ramanujam

Stung Meanchey landfill, Phnom Penh, Cambodia





Neeson Cripps Academy, Phnom Penh, Cambodia







MANIFESTO

COOKFOX Architects pledges to do our part to purge the building industry of unethical labor practices by shining a light on forced labor within the building supply chain. As we continue confront the social and racial injustices that surround us, we must use this same lens to focus on the injustices within the construction industry.

We believe:

Freedom is fundamental to the equity, health and well-being of humans.

The well-being of humanity depends on a healthy planet.

Sustainable buildings are vital to creating a healthier planet.

A sustainable future is meaningless without an equitable future.

We have a professional, ethical and moral responsibility to pursue sustainable, equitable design.

We must:

Eradicate the inhumane practices that permeate the supply chain and harm individuals and the global community. Educate industry colleagues and consumers on the hidden and pervasive nature of forced-labor practices. Establish resources that enable our studio to specify healthy, ethically sourced, forced labor-free building materials and products. Create documentation and accountability practices.

Use our practice to set a new standard for forced labor-free buildings.



EDUCATING OURSELVES

We can:

Commit early in the design process to ask where each material comes from and revise selections to avoid benefiting from slavery.

We must:

Heighten requirements for slave-free materials in the proposal process.

Enact a system for tracking and monitoring where materials and equipment originate. Proactively collect, analyze, and share information about products.

Assess what is in our materials library.

Get buy-in from all other stakeholders on the project.





GOING PUBLIC

We can:

We can become aware of which Force Labor Free products are available to specify in project manuals and educate ourselves about slavery free labor in the building industry.

We must:

Publicize our policy Participate in efforts to change the industry Publicly disclose anti-slavery commitments





COOKFOX Architects @COOKFOXarch · Jun 15

USGBC and Grace Farms Foundation are partnering to work toward a more equitable supply chain. COOKFOX is proud to participate in and support this movement to advance sustainability.



Time for a sustainable, equitable and just supply c... USGBC and Grace Farms Foundation are partnering to work toward a more equitable supply chain. & usgbc.org



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COOKFOX Architects

Architectural Designe

COOKFOX is an architectural studio dedicated to integrated, environmentally responsive design

















SAVED

() TAGGED













CREATING A MOVEMENT

We must:

Join the Design For Freedom movement and social media campaign.

Together, we can:

Work to make sure that the environment we design into reality does not embody forced labor.

Spread the word about slave-free labor practices in the building industry so we can affect market transformation.

Make every effort to effect positive and sustainable change to eliminate forced labor in the built environment.



STEPS

WE ARE TAKING



BUILDING RESOURCES

Forced Labor Free Resources

We are creating a consolidated list of forced labor free certifications and starting a database of certified materials.

Company Name	Cartification	Website
		billow lives or man
Sir Robert McAlpine	BES 6002 Ethical Labour Sourcing Standard	Inflam (Jacobs) Arm
Tarmac & CRH Company	BES 6002 Ethical Labour Sourcing Standard	Inter Mannas, co
Hercules Sile Services	BES 6002. Ethical Labour Sourcing Standard	Inflore Conner Trent
Danny Sullivan Group		https://www.can
Randstad	BES 6002 Ethical Labour Sourcing Standard	Trillog Territor rains
Milken & Company	BES 6002 Ethical Labour Sourcing Standard	Mo Pmillion co
Relatie Contractors	BES 6002 Ethical Labour Sourcing Standard	https://www.inetableco
O'neil & Brennan	BES 6002 Ethical Labour Sourcing Standard	https://www.one
Hardscape Inspire, Select, Supply	BES 6002 Ethical Labour Sourcing Standard	Mos Investory
Sky Elue, Fortel, Nexus	BES 6002 Ethical Labour Sourcing Standard	Nitos Uskyptural
BCCI Construction Company	Just	https://becicsinat
Industrial Louvers	teut	titles liveour indu
Dandall	hat	hitph //pundati ci
Perits y Vernicults	Cradle to Cradle (silver)	titles living peri
AgaTomes	Cradle to Cradle (silver)	Mon Perror atta
Hueck Aluminum Systems	Crade to Crade (silver)	Mos //hueck.co
AGC Glass Europe.	Global Sustainable Enterprise System	Mars Provine ass
	Samec a CRH Complety Hercules Sale Services Damy Sulfwar Group Raniostad Million & Company Relatele Contextors Ortell & Brennan Hanscope Imple: Serect Supply Sky Bale, Forters Nexus BICDI Construction Company Industrial Lourers Duridal Penta y Veemculta. Add Sorres Husck Aleximium Systems	Marshalls DES 4002 Ethical Labour Sourcing Standard Sir Kobet McApine DES 6002 Ethical Labour Sourcing Standard Namec a CRH Compiny DES 6002 Ethical Labour Sourcing Standard Hersules Site Services DES 6002 Ethical Labour Sourcing Standard Damp Sullivan Group DES 6002 Ethical Labour Sourcing Standard Mainten & Company DES 6002 Ethical Labour Sourcing Standard Mainten & Company DES 6002 Ethical Labour Sourcing Standard Asilable Company DES 6002 Ethical Labour Sourcing Standard Sky Blue, Fortet Nexue DES 6002 Ethical Labour Sourcing Standard Biodytical Louvers Javit Labour Sourcing Standard Deristal Javit Labour Sourcing Standard

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	Product(s)
tonhalty.	Hardscape
	Construction and Civil Engineering
cóm/ab	Aggregates and related products for paving and other construction
	Construction and Civil Engineering
	Construction labor
(indetach	Human resources consulting firm
com/	Custom chamicals and floor coatings
econtract	Construction contracting for infrastructure projects
nellandi	Construction labor and site logistics
inter data	Hardscape
raciation	A range of tabor management and security services.
nat.com/	Commerical general contractor
white	Custom architectural metal components
1 SCHT	Svatainable engineering consultants
eritz, et	Perifoc HP Eco+ (Gypsum based fire resistant and ecologic mortar for fire protection)
	Fire resistant metal doors
	HUECK Trigon FS 040/050/060 & SG - Aluminium Facade and Door System
	Magnetion Coaled Painted patterned laminated acid etched glass and lead-free mirrors
	Architectural Glasses (uncosted and coated)
	Float glass, sputter coated float glass, Guardian LamiGlass
100	Kawneer modular Aluminium Window, Door and Façade Systems
	AA 100Q HE+ Aluminium Curtain Wall
	1600 Wall System *** 1 Curtain Wall and System *** 2 Curtain Wall
	Versoleii ^{**} Sunshade Outrigger Systems and Versoleii ^{**} Single Blade Systems
	MAGNA Glaskeramik Black (surfaces and pannels made from (ecycled glass)
192	Superviced® fully impregnated spruce
	Superviced® fully impregnated spruce, surface treated
	Aluminium Doors VIICONA
	Aluminium Pagades WICONA Aluminium Windows WICONA
	Aluminium Doors VIICONA Aluminium Facades VIICONA
	Aluminium Windows WICONA
1.10	Aluminum systems for vindovis, doors, sliding doors, facades walls, cladding
5.40	Fire proof system
Labora	Holiodeen Sills
	Holomite
	Komproment State Roof and Facade
0.50	VIDAR City Shingle Facades
con	MOSA Ceramic Facade System
	Schuce Aluminium Façade- Window- Door- Sun Shading and Fire Protection Systems
the second se	Schuce Aluminium selected Facade- Window- Sliding- and Fire Protection Systems
	Augrof Modular Aluminum Facade-, Window- and Door system
	BRUCHAPaneel PURPIR Roof DP, Facade FP, FP-P, FP-P, S and Visil WP
	Green Wall IPanel
	Integratimater (internal roller blind system)
	NovaShield8 Structure Membrane
-	

STEPS WE ARE TAKING



PRACTICE

Pilot Project

We are working on a white paper and a parallel path innovation model to investigate the ways COOKFOX can adapt the design and specification process of a speculative, developer-driven large-scale project in NYC to reduce the impact of forced labor.



STEPS WE ARE TAKING

MARKET TRANSFORMATION

We must:

We are educating colleagues, clients, and peers about forced labor issues.

We are:

Including Design for Freedom principles in all discussions with clients and proposals for new projects.







WHAT CAN YOU DO?



Our vision is to achieve forced labor free building supply chains. While it is easy to be overwhelmed by the enormity and complexity of this challenge, we believe that all of us can contribute, one building block at a time, to our vision of material transparency and reduced risk of forced labor in our buildings.

STEPS YOU CAN TAKE.



DISCUSSION

HOW WOULD YOU BEGIN IN YOUR CONTEXT?