## **BUILDINGENERGY NYC**

## **Design for Freedom: A Call to Action**

Nora Rizzo, Grace Farms Foundation Jared Gilbert, COOKFOX Architects

Northeast Sustainable Energy Association (NESEA)
September 15, 2022





Grace Farms Foundation's interdisciplinary humanitarian mission aims to end modern slavery and gender-based violence, while creating more grace and peace in our local and global communities.

Grace Farms' SANAAdesigned site breaks down barriers between people and across sectors.

The built environment is inextricably linked to nature and people.



The built environment has a relationship with nature and people

Is your building ethically sourced, forced labor-free, as well as sustainably designed?



design for FREEDOM by grace farms

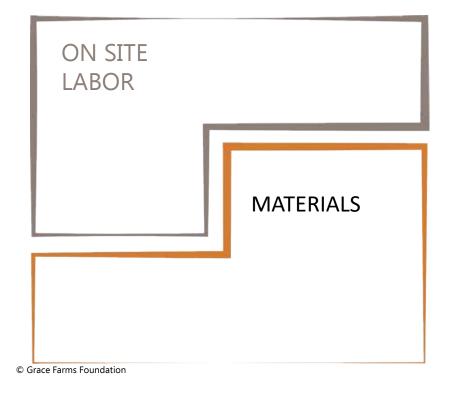


a movement to create a radical paradigm shift and remove slavery from the built environment



Addressing onsite labor is only half of the equation

Forced labor in the building materials supply chain must also





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



## Construction lags other industries in supply chain transparency







first food ...... then clothing ..... shelter will be next







milestones: Working Group | Report | Pilot Projects | Toolkit















## Design for Freedom Working Group

80+ CEOs, principals, industry experts





**BURO HAPPOLD** 









Gensler







MASS.

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**SLADE** ARCHITECTURE

SO-IL

SustainChain™

**UrbanWorks** 



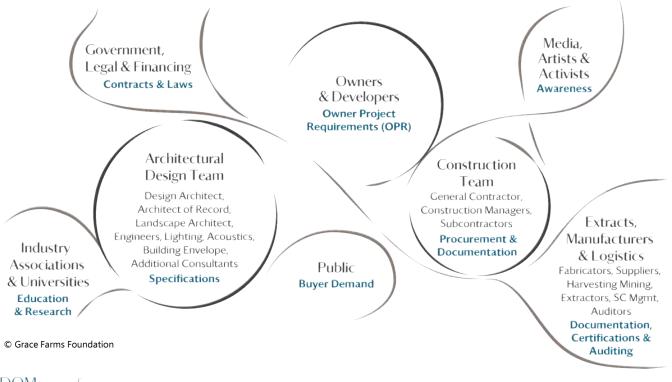
**VERITÉ** 

 $\mathbf{W} \times \mathbf{Y}$ 

Yale ARCHITECTURE

## Ecosystem of the built environment

Means and methods to ethically influence the building material supply chain





design for FREEDOM by grace farms

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



Forced labor is all work or service that is performed involuntarily and under the threat of any penalty

Occurs in every region of the world

Global estimates are currently at **28 million** people enslaved (ILO)

Child labor is work that deprives children of their childhood and is mentally, physically, socially, or morally dangerous and harmful to children and/or interferes with their schooling

Estimates for children, between the ages of 5 and 17 years old, are **160 million** (ILO)

forced labor

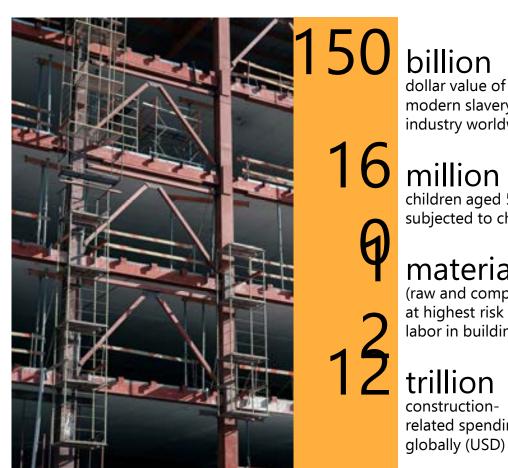
child labor



All forced labor-produced goods as well as illegally logged timber are prohibited from importation into the U.S.



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

children aged 5 to 17 are subjected to child labor

#### materials

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

constructionrelated spending globally (USD)



# Are owners subsidizing their ROI with slavery?

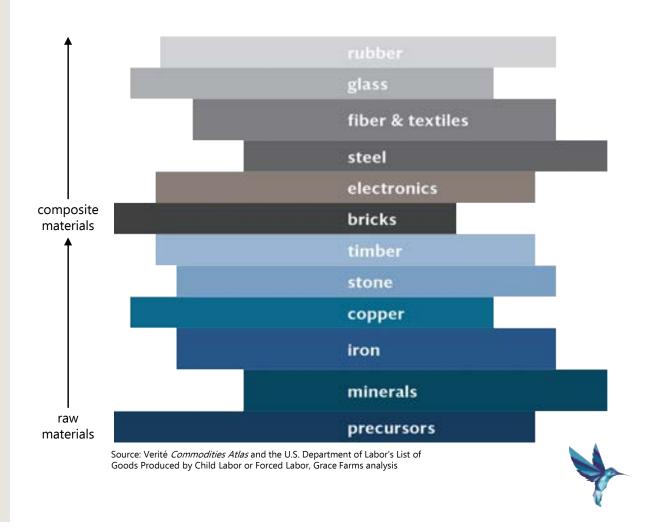
Likely, yes



# what are products?



Raw and composite materials at the highest risk of embedded slavery



## textiles

#### relevant certifications

**Better Cotton** 

Fairtrade Cotton Mark

Fairtrade Textile Standard

**FSC Certified Viscose** 

Global Organic Textile Standard

Good Weave

Leather Standard by Oeko-Tex

Responsible Wool Standard

Step by Oeko-Tex





#### Global hotspots<sup>1</sup>

Bangladesh Child labor | Cambodia Child labor | China Child and forced labor | North Korea Forced labor Turkmenistan Child and forced labor | Vietnam Child labor



#### **TEXTILES**

**Bangladesh** Children perform dangerous tasks in garment and leather goods supply chains.<sup>2</sup>

**Turkmenistan** On May 18, 2018, CBP issued a Withhold Release Order (WRO) banning the importation of all Turkmenistan cotton or products produced in whole or in part with Turkmenistan cotton.<sup>3</sup>

China Xinjiang is undergoing an expansion of the textile industry. Victim testimonies, news media, and think tanks report that textile factories frequently engage in coercive recruitment, limit workers' freedom of movement and communication, and subject workers to constant surveillance, retribution for religious beliefs, exclusion from community and social life, and threaten family members.<sup>4</sup> Textile output from China accounts for more than 50% of the global market.<sup>5</sup>



## timber

### relevant certifications

American Tree Farm System (ATFS)

Forest Stewardship Council (FSC) Certifications

Programme for the Endorsement of Forest Certification (PEFC)

Sustainable Forestry Initiative (SFI)





#### Global hotspots'

Brazil | Cambodia | Peru | North Korea | Russia | Vietnam

High-risk illegal logging which can include forced labor:

West Africa Nigeria, Cameroon, Senegal, Gambia

East Africa Tanzania, Mozambique, Madagascar

Central Africa Democratic Republic of the Congo



#### TIMBER

#### At-risk sawn wood timber 19



Brazil softwood

Pine



Brazil & Peru hardwood

Peru: White Oak Walnut

Brazil: Tropical Lumber (i.e., Teak, Mahogany, Ipe)

Source: Grace Farms Foundation



Russia softwood

Pine Spruce

Fir



Russia hardwood

Oak Birch Aspen Elm



## bricks





left: CSushavan Nandy/NurPhoto via Getty Images; right: CDennis Gilbert/ View Pictures/Universal Images Group via Getty Images

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







# Solar panels are not a sustainable solution if human rights violations are embedded in them

- Polycrystalline silicon is a main component of solar panels;
   45% is sourced from China's Xinjiang Uyghur Autonomous Region
- More than i million are held in forced labor conditions and detained in camps
- Only 5% of global supply is provided by U.S.-owned companies
- Cheaper materials embedded with forced labor hinder innovation





What can we do as owners, designers, engineers and construction professionals?



### Call to action

- construction
- interiors
- landscape

Without inspection, there is no accountability

## ask

ask where materials come from, trace at least one material on your next project

## use

use certifications in

Design for Freedom

Report and Design for

Freedom Toolkit

as a starting point

# add

add Design for Freedom material requirements to contracts, specs, procurement, material libraries, technologies, and platforms

# reduce

reduce risk in extractives through material reuse and circularity



# design for freedom pilot projects



Black Chapel by Theaster Gates (21st Serpentine Pavilion)

June 10 through October 16,2022





Shadow of a Face by Nina Cooke John
Harriet Tubman Monument



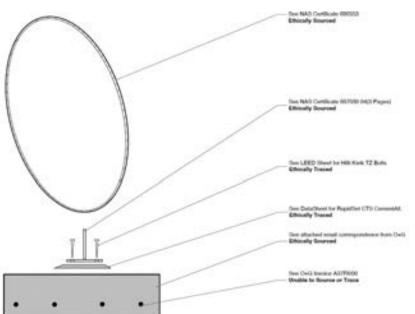
New Canaan Library by Centerbrook Architects

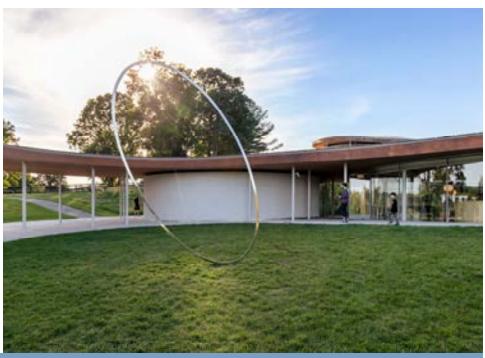
featuring Turner Construction



Temporal Shift by Alyson Shotz at Grace Farms







# Alyson Shotz's Temporal Shift

The commission and installation of *Temporal Shift*, the new sculptural work by Alyson Shotz on view at Grace Farms through September 2022, presented a unique opportunity to align the process of bringing this exciting artwork to the public with the ever-expanding framework of analysis, inquiry, and collaboration demonstrated by the Design for Freedom movement.



New Center for Arts and Culture by Serendipity Arts in New Delhi, India

# design for freedom toolkit





# design for FREEDOM toolkit

A comprehensive resource for design and construction professionals to implement ethical, forced labor-free material sourcing strategies into their practices

## First of its kind: Design for Freedom Toolkit

#### Education

- Provides deep analysis of more than a dozen most at-risk building materials
- Lists relevant certifications and standards that support ethical materials choices

#### Commitment

Design for Freedom Principles and Overview

## Implementation

Supplier Questionnaire and Sample Specifications

Available at designforfreedom.org

design for FREEDOM by grace farms



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



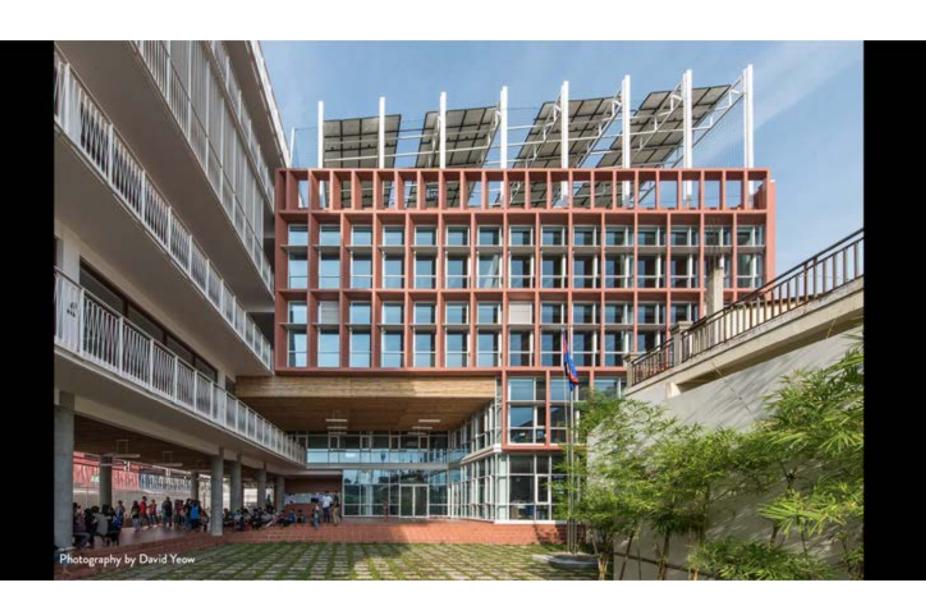


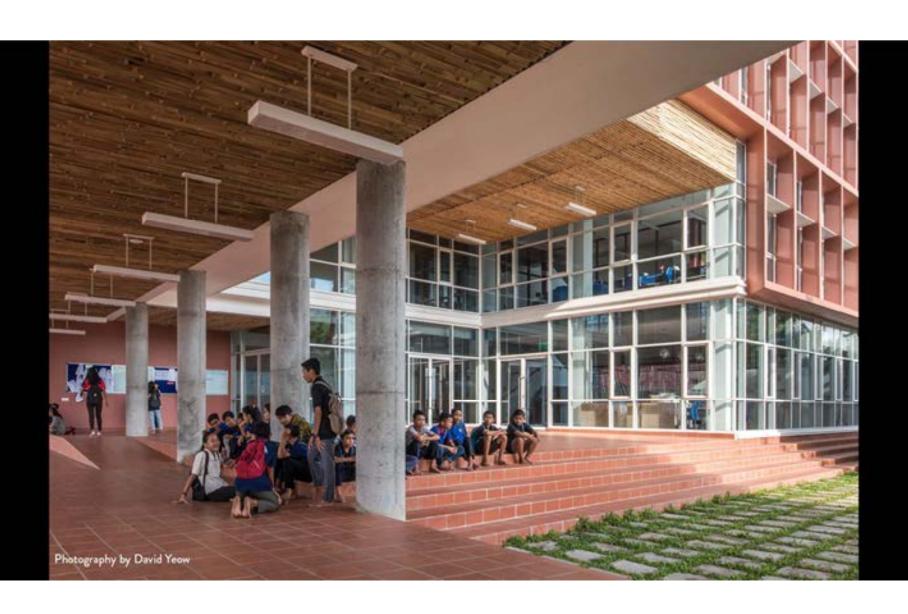












## WHAT CAN WE DO?

## **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:

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:

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

Enact a system for tracking and monitoring where materials and equipment originate

Collect, analyze, and share information about products.

Assess our materials library.

Get buy-in from all project stakeholders







Global Estimates of Modern Slavery

## Forced Labour and Forced Marriage



September 2022

## WHAT CAN WE DO?



## WHAT CAN WE DO?

# **GOING PUBLIC**

#### We can:

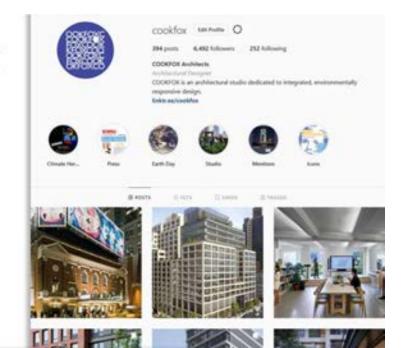
Join the Design For Freedom movement and social media campaign.

#### We must:

Publicize our policy

Participate in efforts to change the industry

Publicly disclose anti-slavery commitments







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









# **CREATING A MOVEMENT**

## WHAT CAN WE DO?

#### We must:

Participate in knowledge sharing.

#### Together, we can:

Work to make sure that the environments we design do not embody forced labor.

Educate our collaborators about force laborfree practices for the building industry.

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



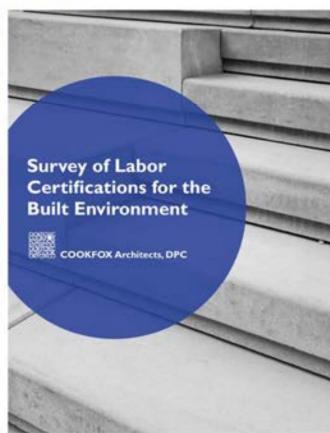
Photography by Eric Laignel



## **GATHERING TOOLS**

## STEPS WE ARE TAKING



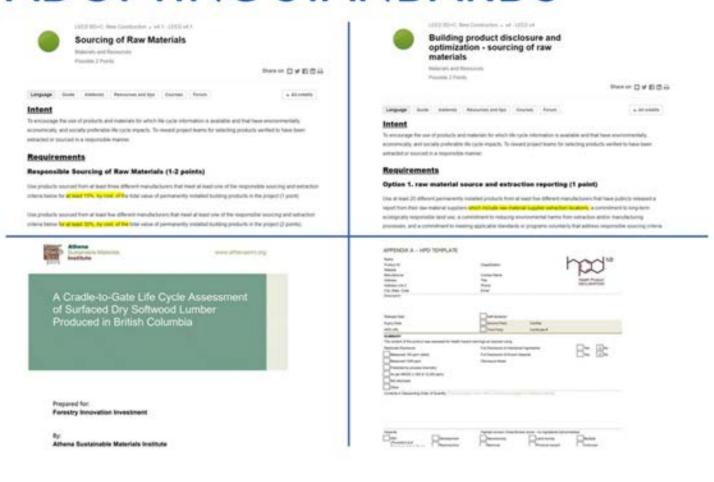




## STEPS WE ARE TAKING



# **ADOPTING STANDARDS**



## STEPS WE ARE TAKING

# STRATEGY FOR CHANGE

## Finding Common Goals

Parallels between green movement and forced-labor-free movement.

Leveraging Sustainability Goals to support Human Rights Goals.

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Acoustical Plaster	092500 Recycled Glass (96%)		Pyrek, Inc - Star Silent - Superfine		
		Adhesive	Star Silent Flu	Pyrok  -Nanufacturac: Emeriena, Spain (06-73% plaster of Paris, 22-25% Imestona)  Pyrox  -95% recycled glass content (all recycled glass is 100% post-consumer waste)  -2-3% fiberglass  Pyrox  -50% pre-consumer recycled marble aggregate  -Production: Stuhligen, Germany	
	example: Increasing recycled content	Panels (Recycled Glass)	Star Silent Panel		
	benefits both the environment and the level of embedded	Base Coat Plaster Finish Coat Plaster	Star Silent Plaster		
	labor in a product				



# **BUILDING RESOURCES**

#### Forced Labor Free Resources

We are creating a database of certified materials.

| Companies | Comp

STEPS WE ARE TAKING



## STEPS WE ARE TAKING

# **PRACTICE**

## Pilot Project

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





## STEPS WE ARE TAKING

# **CASE STUDY**

### Studying our Impact

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

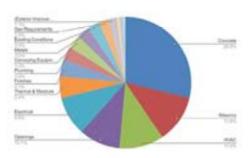


Photography by Bruce Damonte



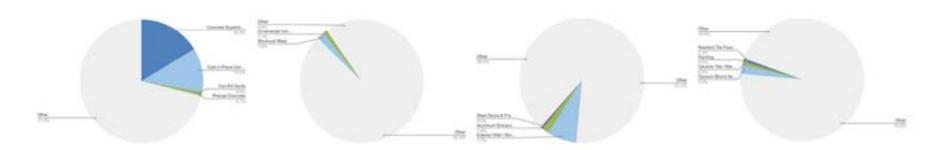
## Identifying tangible target goals is the first step towards organizing a project's approach to establishing fair labor standards.





Analyzing the construction requisition as a comparable case study for Pilot Project

# Identifying key trades for targeting



#### Concrete

29% total construction value

Largest percentage of cost

## Metals

3% total construction value

Opportunity for certification and recycled content

## Openings

10% total construction value

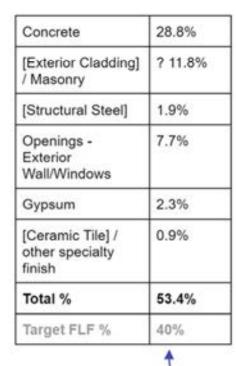
Public-facing facade impact; high risk of forced labor in glass

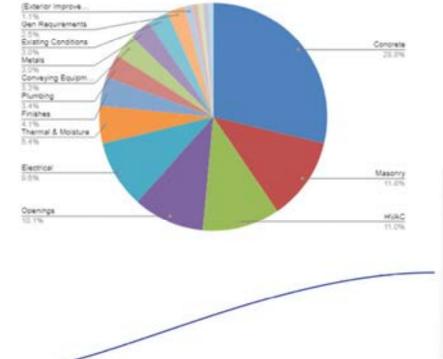
### **Finishes**

4% total construction value

High-touch interior design within scope

## **Target Goal**





In our research, building in a buffer was important due to difference in material design between Pilot Project and case study as well as inevitable variation in construction cost

# **Setting up the Matrix**

## Developing a roadmap for Pilot Project and beyond



# **Material Deep Dives**

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# 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.

## STEPS WE ARE TAKING







## 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.

-excerpt from Design for Freedom Toolkit



# **NOW YOU KNOW**

STEPS YOU CAN TAKE.

HOW WOULD YOU BEGIN IN YOUR CONTEXT?

