

PhiusCon 2021

Ceiling panels

Window shades

Duct insulation

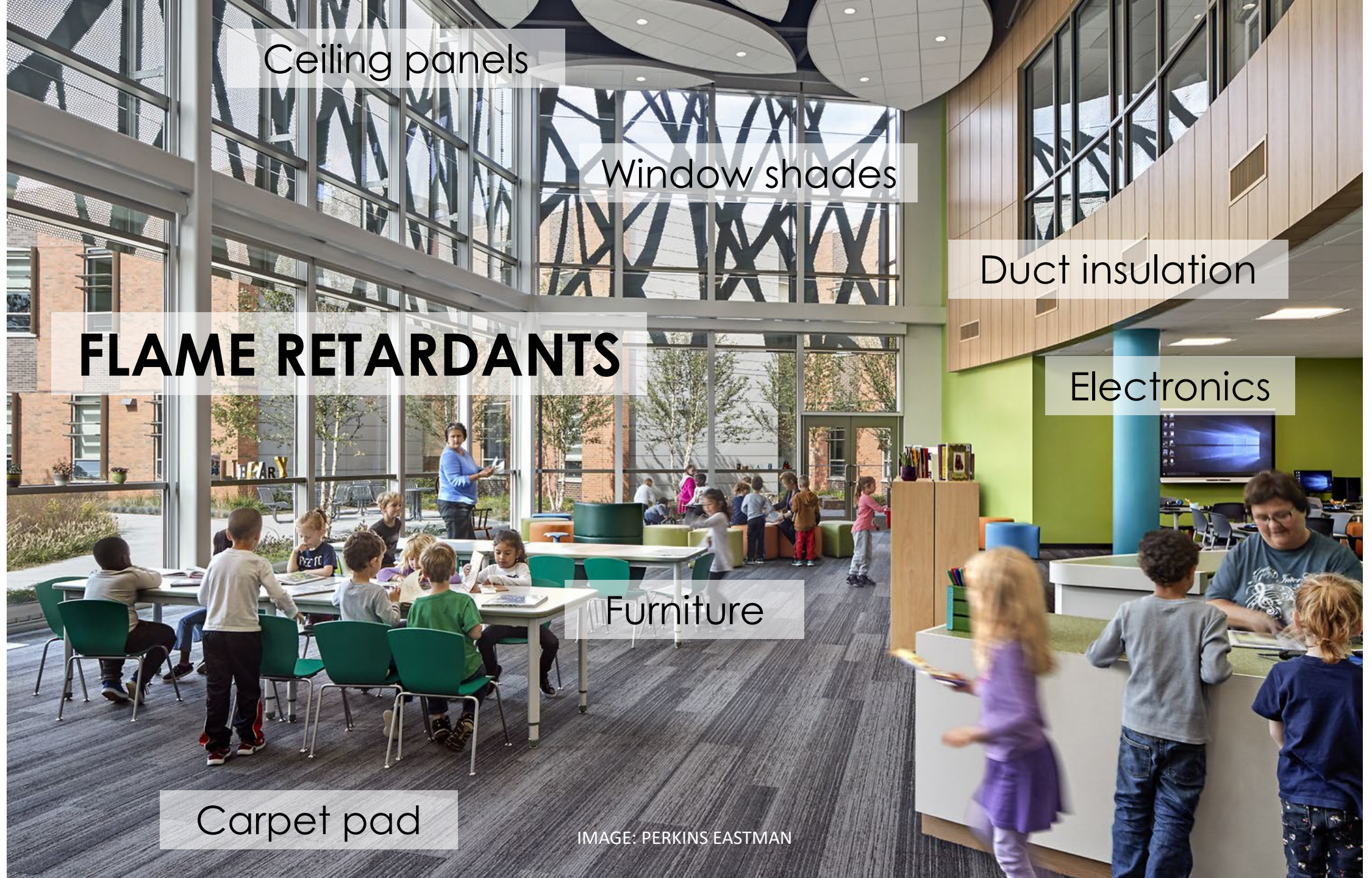
FLAME RETARDANTS

Electronics

Furniture

Carpet pad

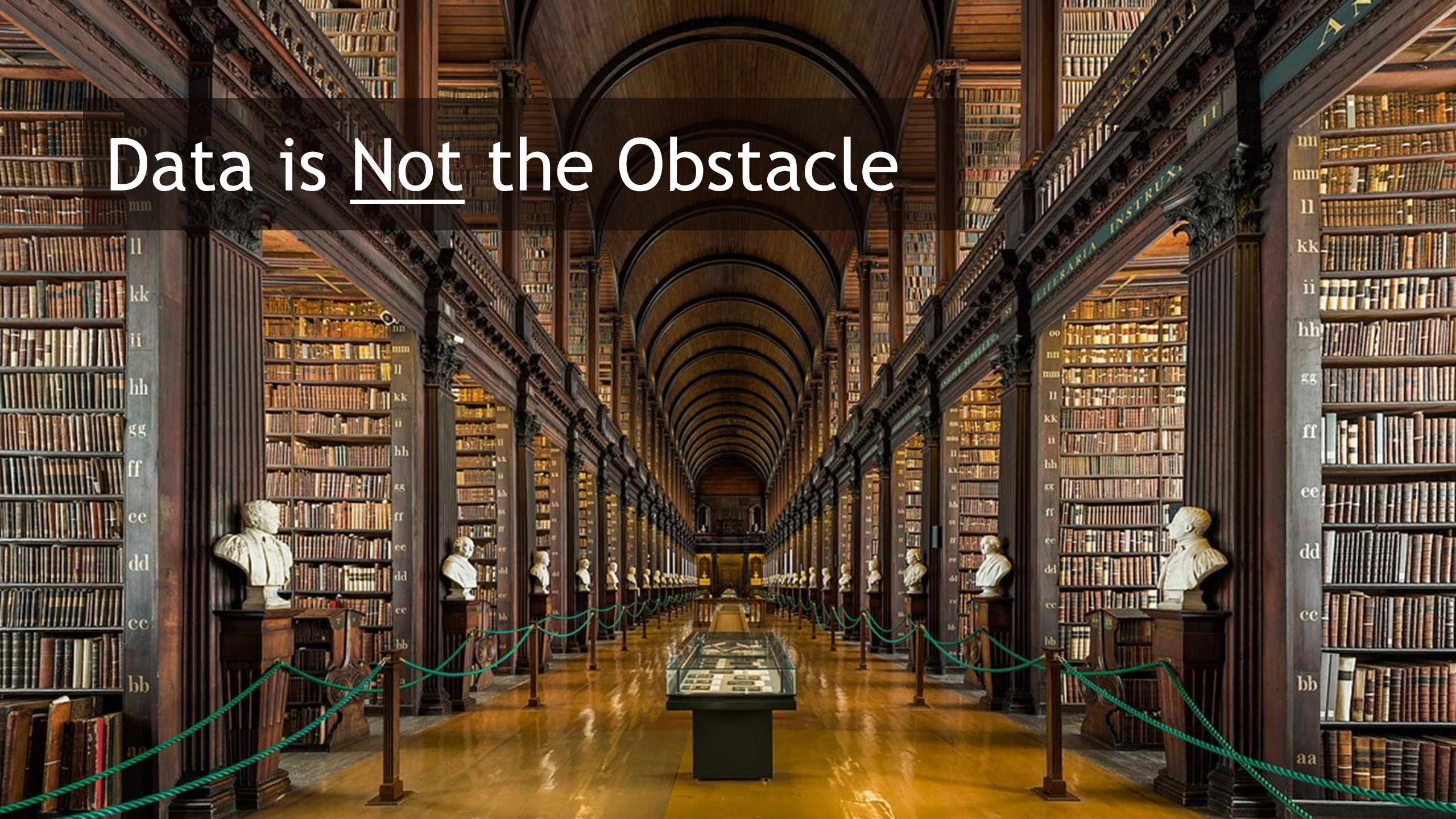
IMAGE: PERKINS EASTMAN



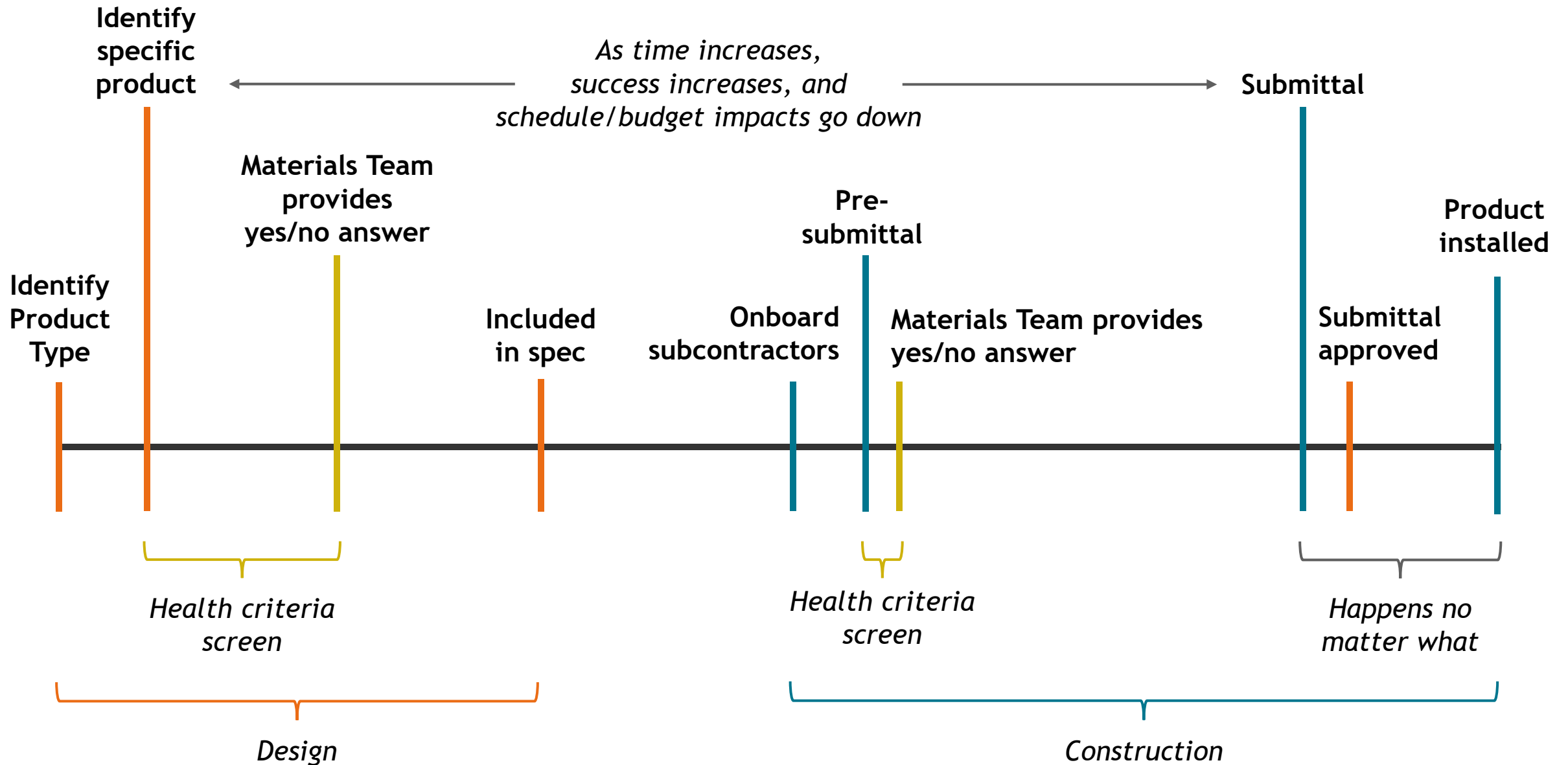
Healthier materials are

- 1) Well understood chemically
 - 2) Free of chemicals of concern
- ... a work in progress

Data is Not the Obstacle



Project Timeline

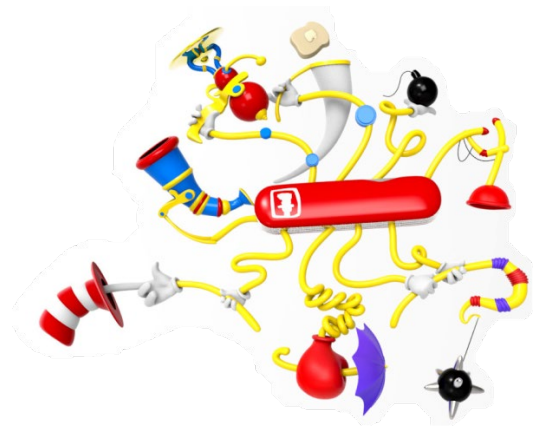


Can I use



?

Does



meet project
goals?



No



Yes



*Put In
Spec/Submittal*

Does a different



*meet project
goals?*



Yes



*Put In
Spec/Submittal*



No



*Put In
Spec/Submittal*

*AND advocate
for better*

09 20 00

Plaster and Gypsum Board

09 21 00

Plaster and Gypsum Board Assemblies

09 21 13

Plaster Assemblies

09 21 16

Gypsum Board Assemblies

09 21 16.23

Gypsum Board Shaft Wall Assemblies

09 21 16.33

Gypsum Board Area Separation Wall Assemblies

09 22 00

Supports for Plaster and Gypsum Board

09 22 13

Metal Furring

09 22 13.13

Metal Channel Furring

09 22 13.23

Resilient Channel Furring

09 22 16

Non-Structural Metal Framing

09 22 16.13

Non-Structural Metal Stud Framing

09 22 26

Suspension Systems

09 22 26.23

Metal Suspension Systems

09 22 26.33

Plastic Suspension Systems

09 22 36

Lath

09 22 36.13

Gypsum Lath

09 22 36.23

Metal Lath

09 22 39

Veneer Plaster Base

09 23 00

Gypsum Plastering

09 23 13

Acoustical Gypsum Plastering

09 23 82

Fireproof Gypsum Plastering

09 24 00

Cement Plastering

09 24 13

Adobe Finish

09 24 23

Cement Stucco

**Specifications and Submittals
are the cornerstone to
achieving healthier materials**

Market Status

07 | *Thermal and Moisture Protection*

Product Type

Market Status

Weather Barriers/Air Barriers

Leading

Loose-Fill and Blown-In Thermal Insulation

Leading

Mineral Wool Thermal Insulation

Improving

Expanded Polystyrene (EPS) Foam Board Insulation

Improving

Extruded Polystyrene (XPS) Foam Board Insulation

Improving

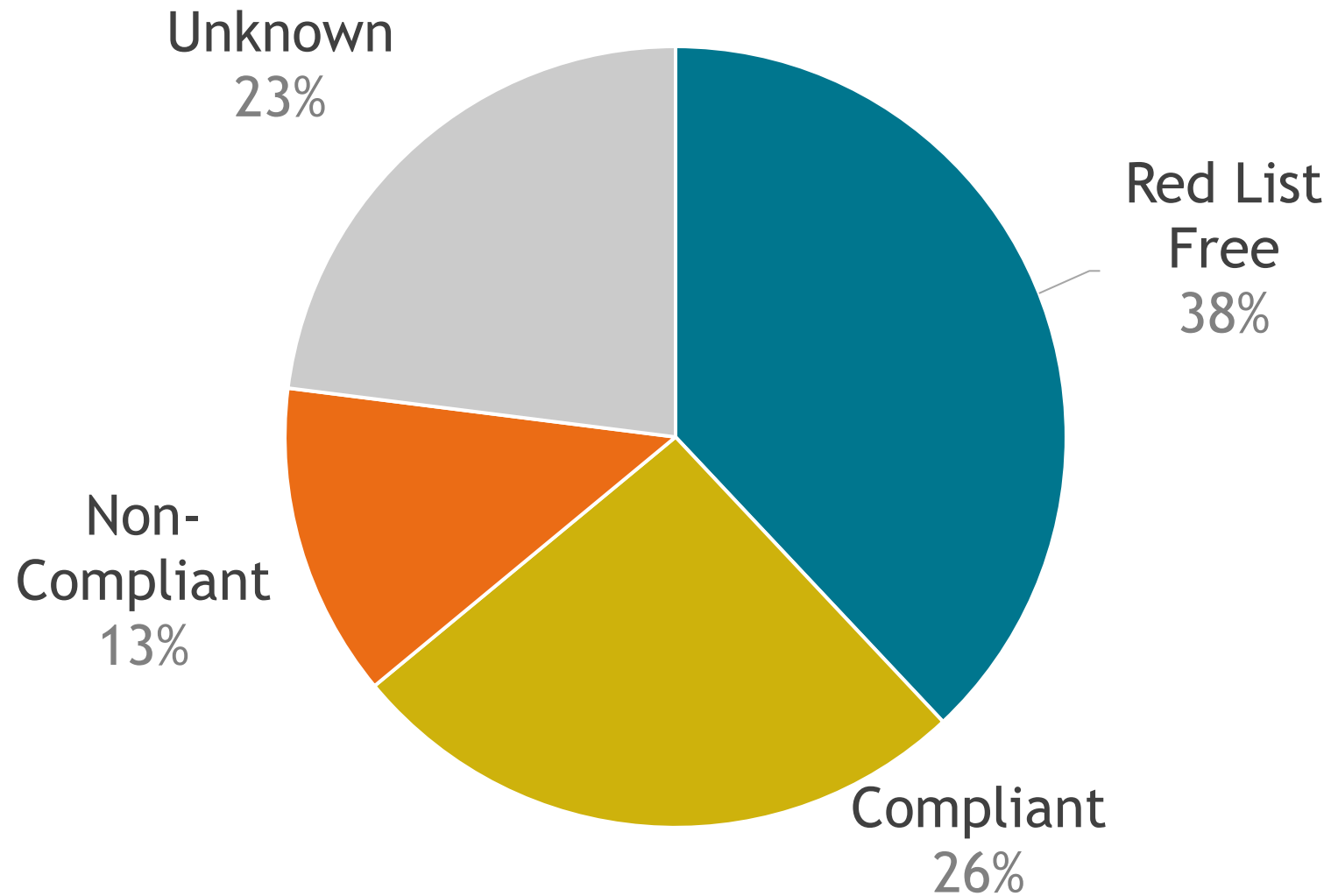
Polyisocyanurate Foam Board Insulation

Leading

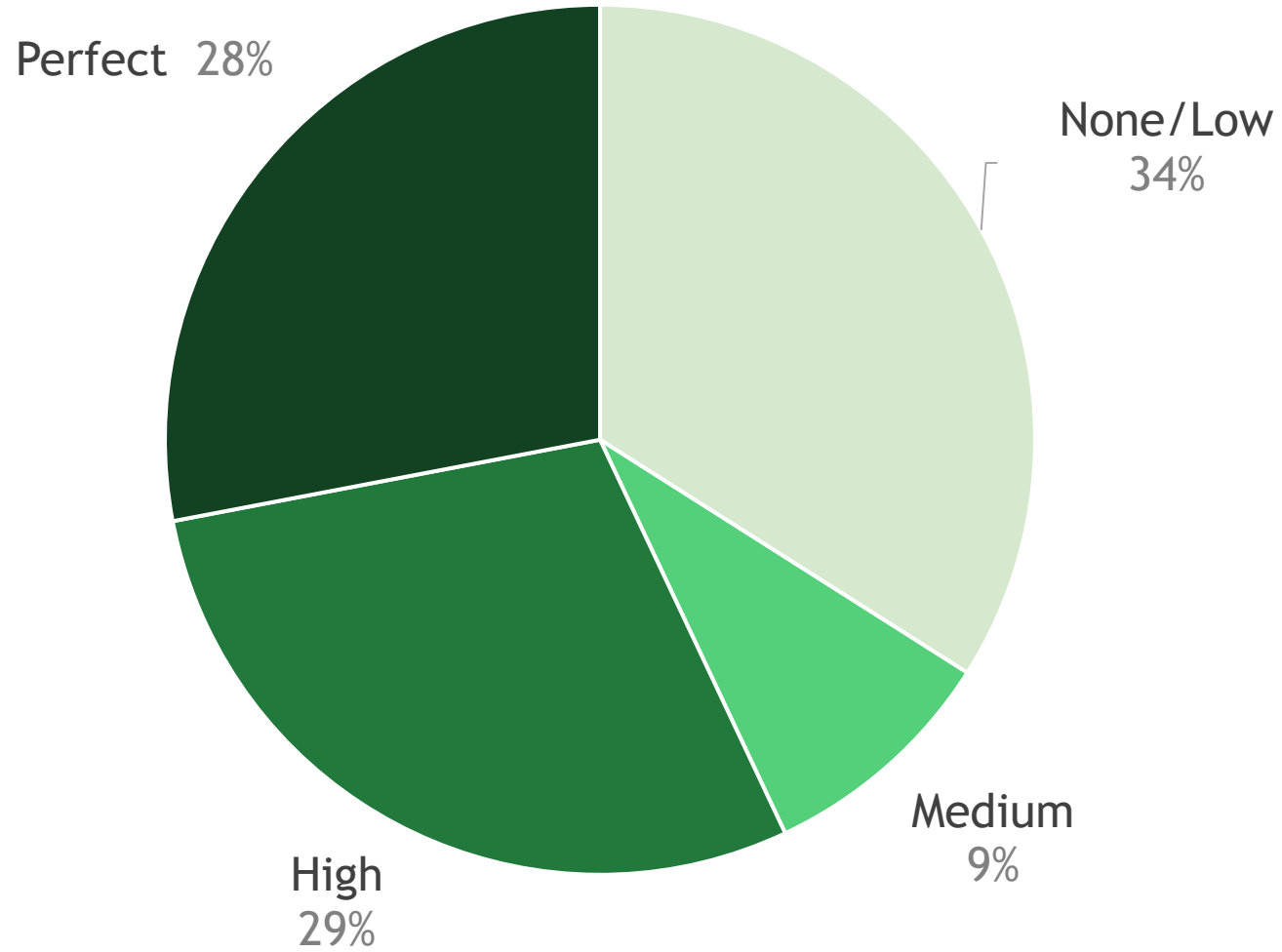
Spray Foam Thermal Insulation

Lagging

Average Red List Compliance

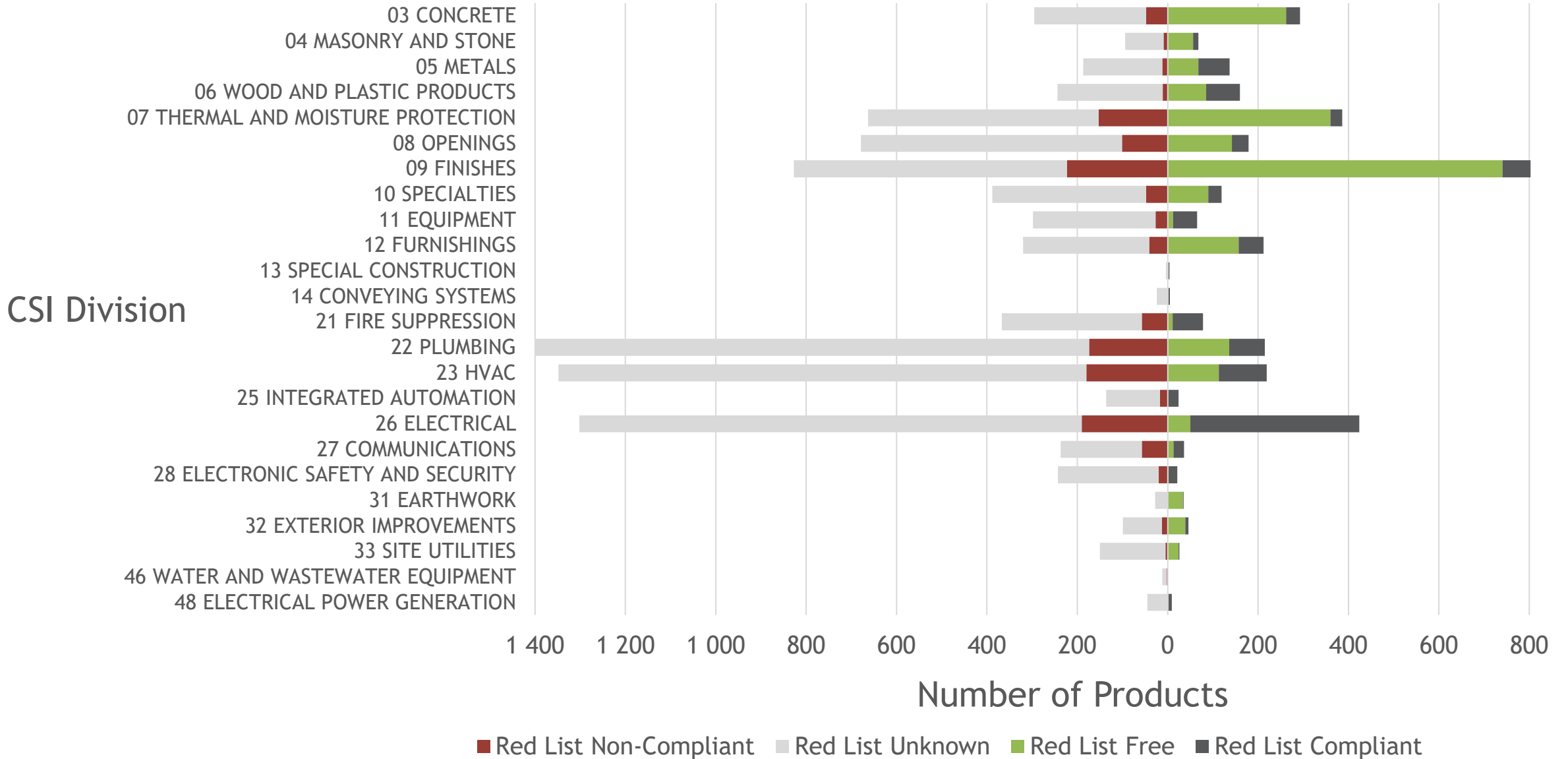


Product Transparency



Red List Statuses

Living Building Challenge 3.1



2.4 MINERAL WOOL BLANKET INSULATION

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Owens Corning; Thermafiber.
2. Rockwool.

B. Unfaced, Mineral Wool Blanket Insulation: ASTM C 665, Type I (blankets without membrane facing); consisting of fibers; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84; passing ASTM E 136 for combustion characteristics.

Owens Corning Thermafiber

FireSpan 40 & 90

FireSpan 40 & 90 FF

Safing

Safing FF

SAFB

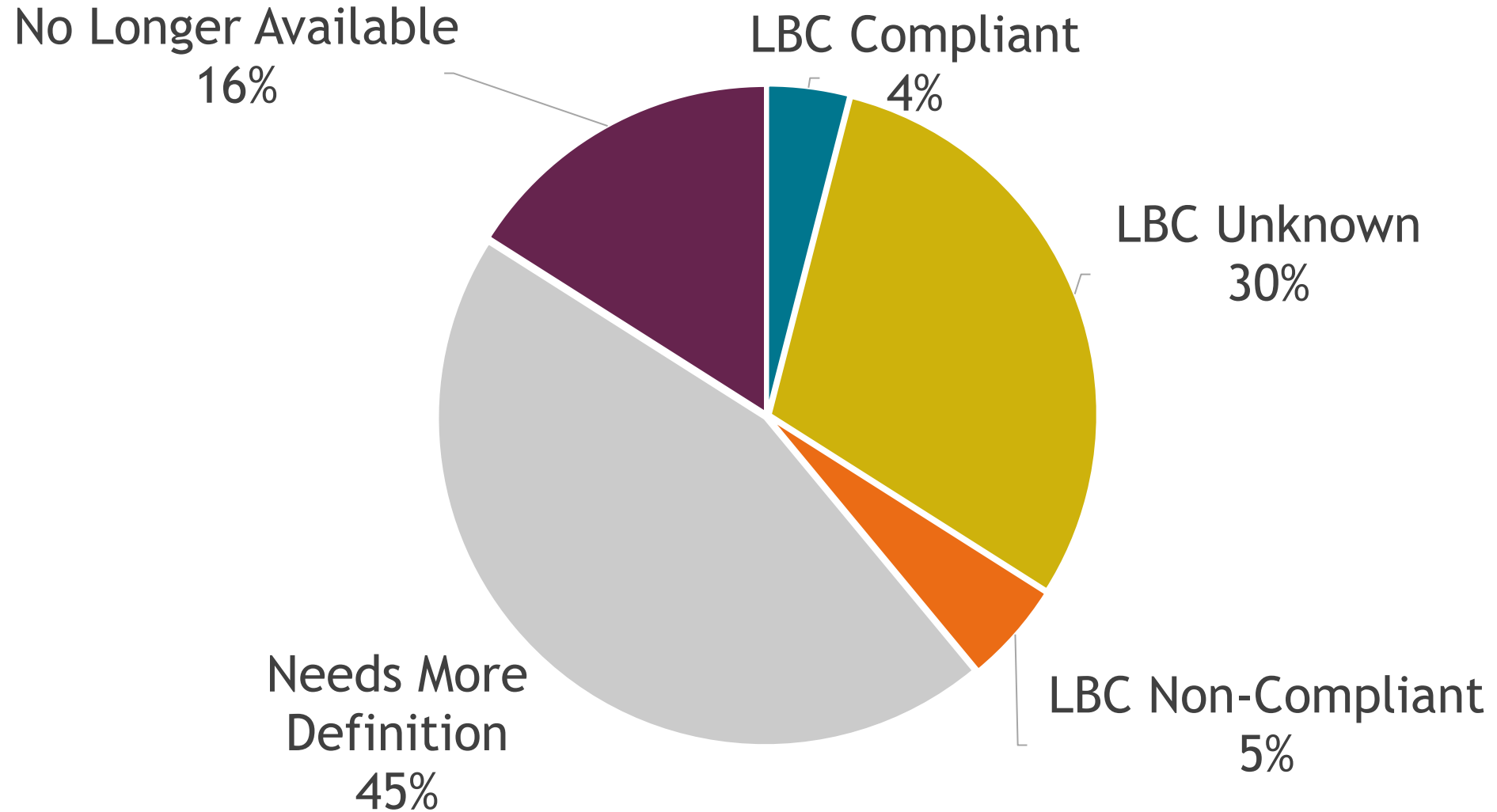
SAFB FF



2.4 MINERAL WOOL BLANKET INSULATION

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Owens Corning; Thermafiber.
 2. Rockwool.
- B. Unfaced, Mineral Wool Blanket Insulation: ASTM C 665, Type I (blankets without membrane facing); consisting of fibers; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84; passing ASTM E 136 for combustion characteristics.
1. Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Owens Corning; Thermafiber SAFB Formaldehyde-Free (FF).
 - b. Rockwool AFB evo.

Spec Benchmarking



Start with one thing

Best Practices:

1. Clearly define the goals
2. Hire willing professionals (new process)
3. Don't ask all team members to become materials experts
4. Identify products early
5. Report the outcomes

Regulation
will not
save us

