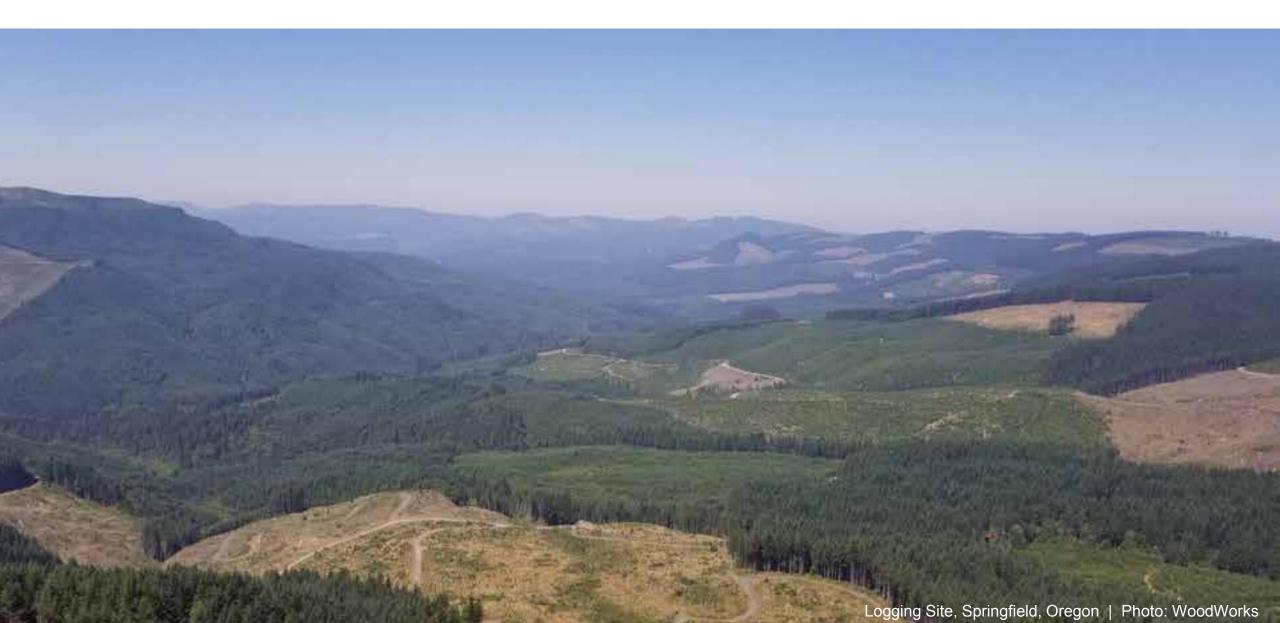
Utilizing Wood in Construction Supports Healthy Forests and Rural Economies



WoodWorks[™] Janelle Leafblad, PE | Regional Director, WoodWorks | November 2020 wood products council

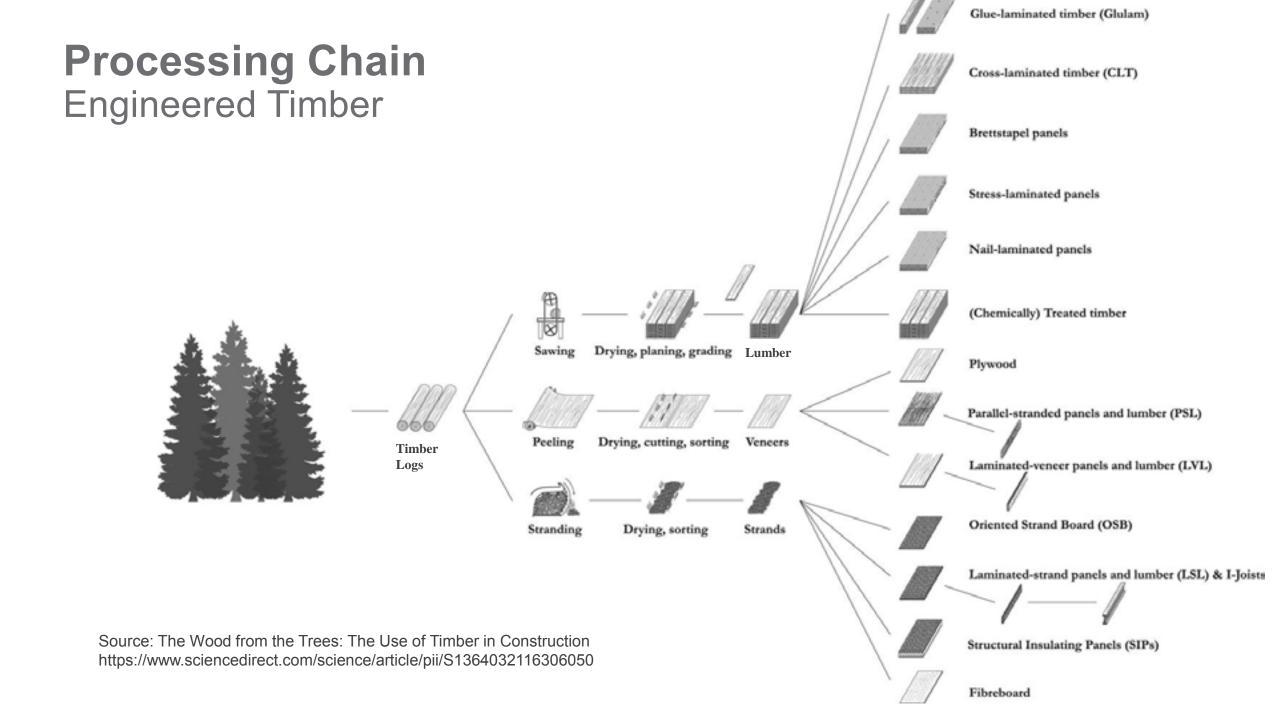
Forest



Timber



Logs at Manufacturing Facility, Oregon | Photo: WoodWorks



Small Diameter Trees



Mass Timber Products



Glue Laminated Timber (GLT)

Cross-Laminated Timber (CLT) Solid sawn laminations Photo: Freres Lumber

Cross-Laminated Timber (CLT) SCL laminations







Dowel-Laminated Timber (DLT)

Nail-Laminated Timber (NLT)

Decking







Photo: StructureCraft



Photo: Think Wood



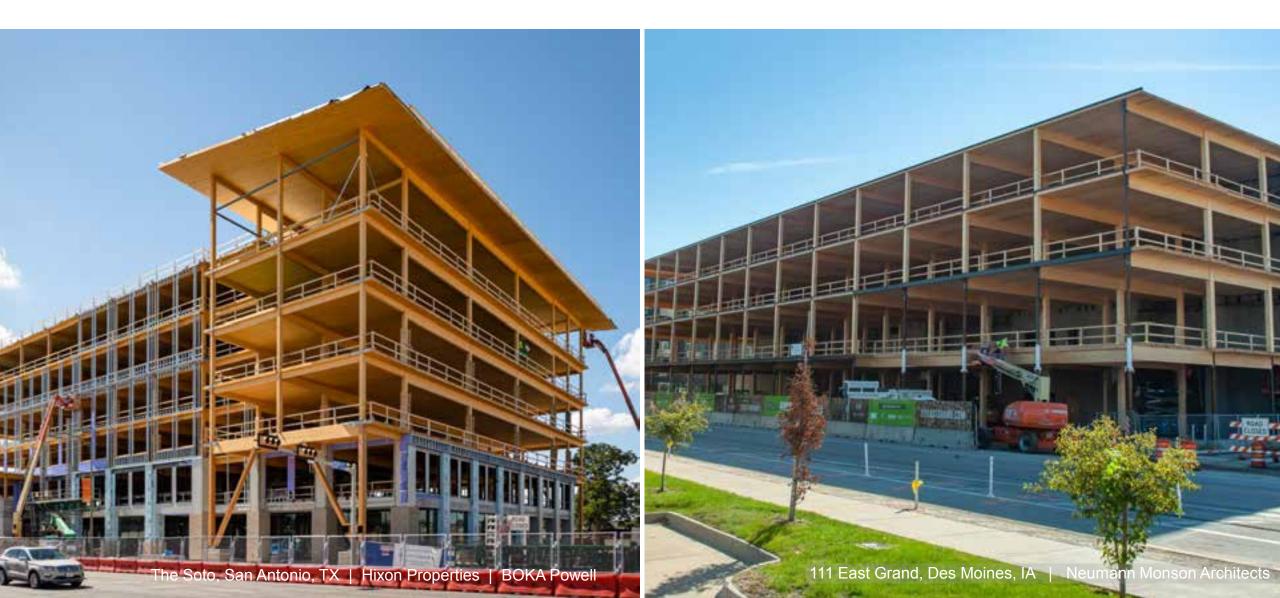
Photo: Ema Peter



Large Pre-fabricated Mass Timber Panels



Mass Timber Buildings



IBC 2021

TYPE IV-A

TYPE IV-B

18 STORIES BUILDING HEIGHT 270 ALLOWABLE BUILDING AREA 972,000 SF AVERAGE AREA PER STORY 54,000SF

12 STORIES BUILDING HEIGHT 180 FT ALLOWABLE BUILDING AREA AVERAGE AREA PER STORY

648,000 SF 54,000SF

9 STORIES BUILDING HEIGHT 85' 405,000 SF ALLOWABLE BUILDING AREA AVERAGE AREA PER STORY 45,000 SF

TYPE IV-C

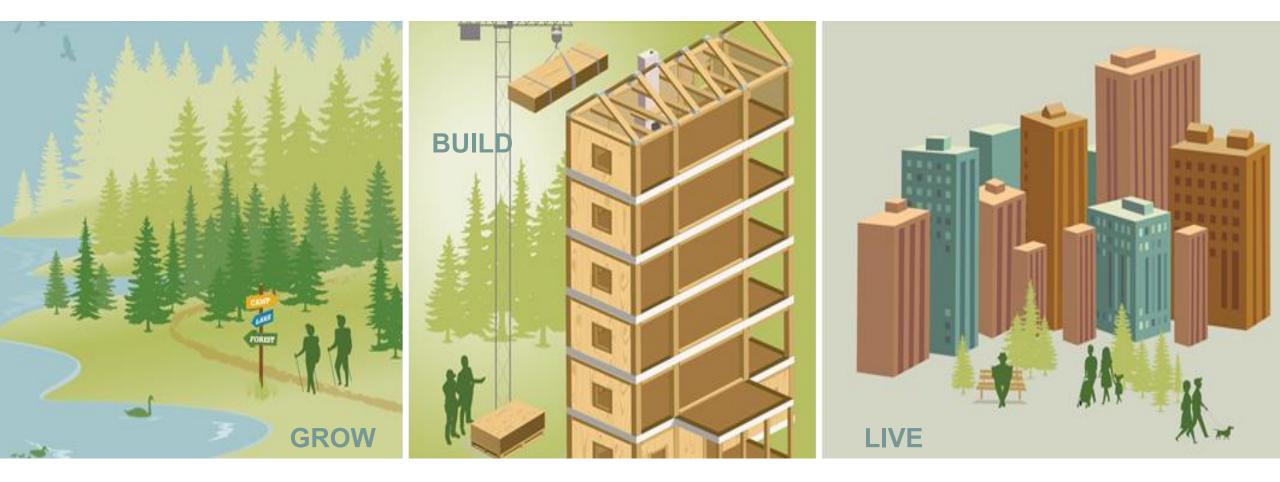






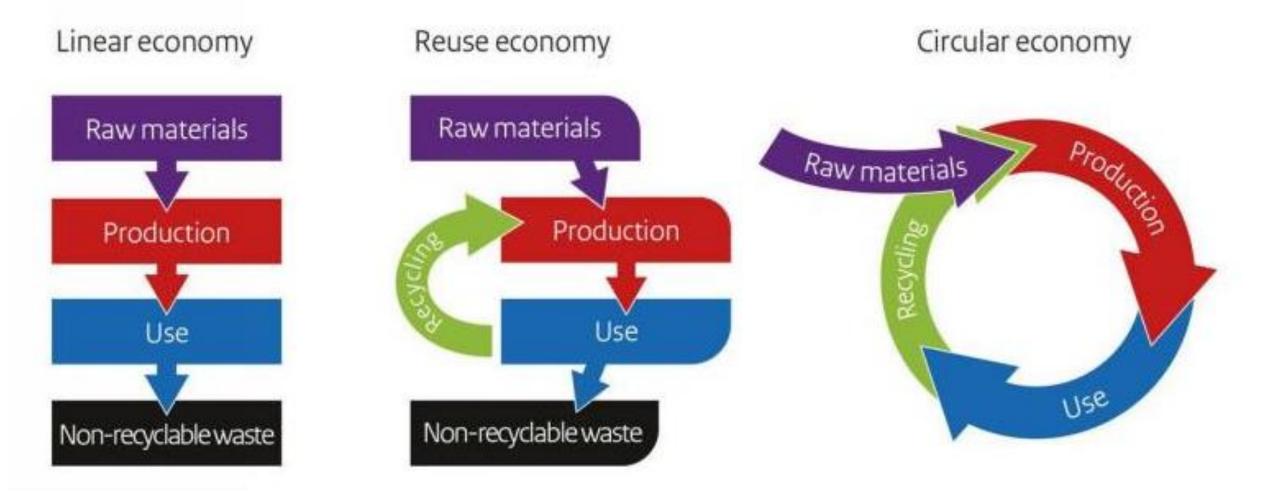
Tall Mass Timber Buildings

Forest-to-Cities Climate Challenge A Systemic Solution in Action

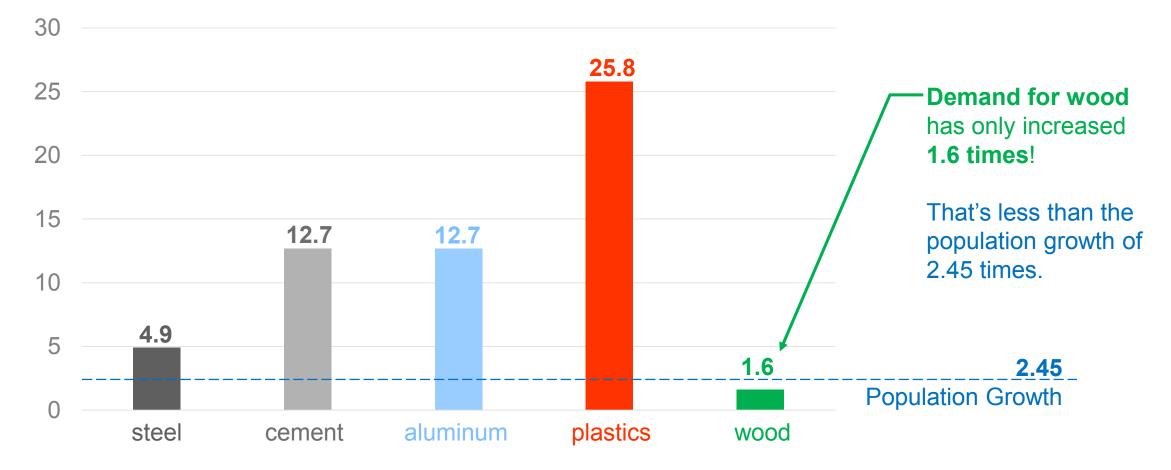


www.ForesttoCities.org

Circular Economy Renewable Resource

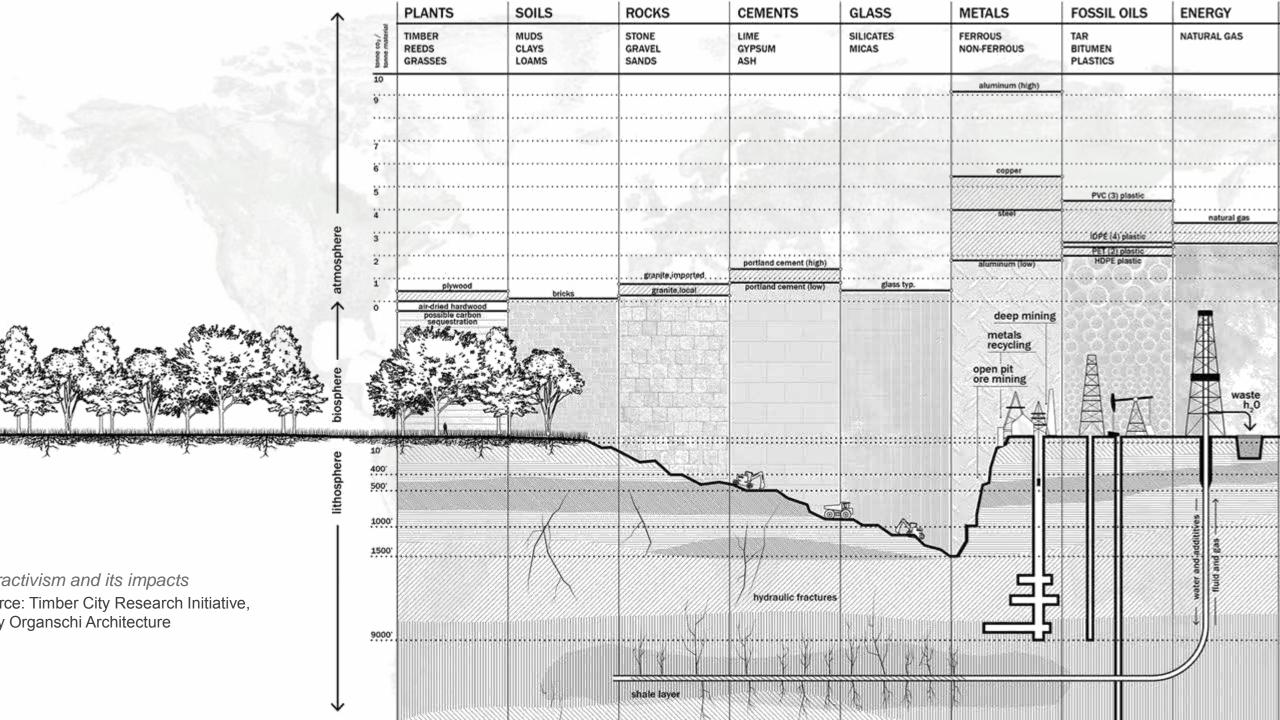


World Growth in Consumption of Raw Materials 1961-2017



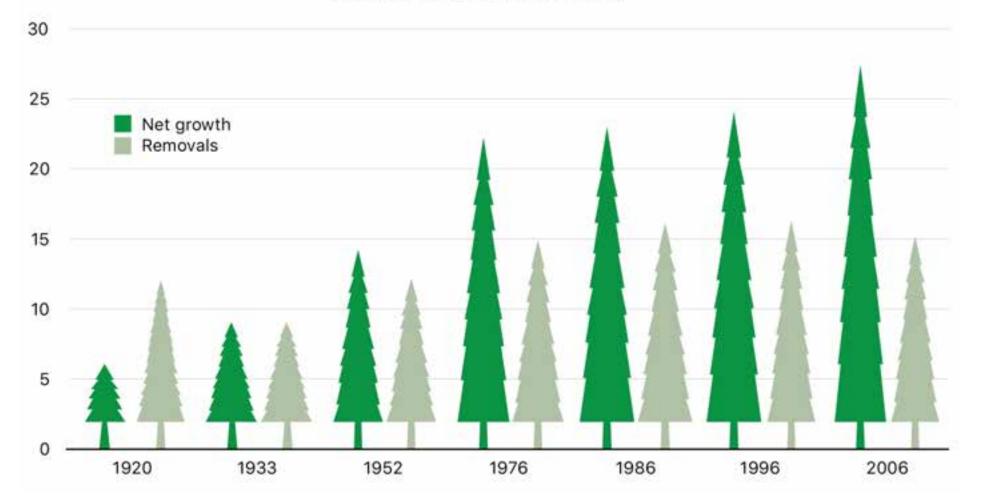
Demand Has Multiplied 'x' Times (1961-2017)

Source: An Introduction To The Circular Economy, Dovetail Partners, Inc. https://dovetailinc.org/portfoliodetail.php?id=5e6f6fff64cb3

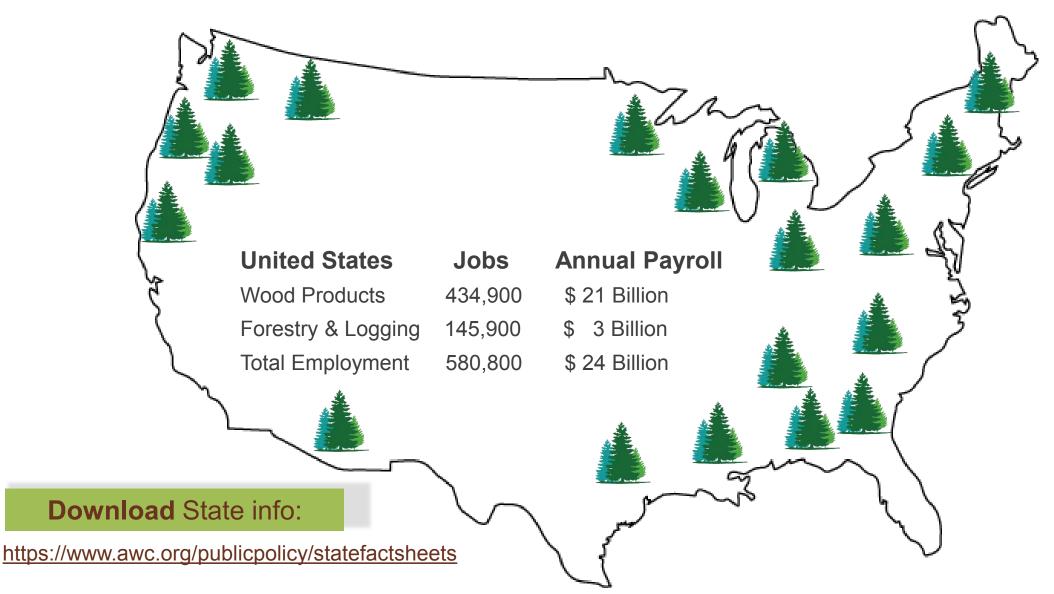


Forest Supply: Growth vs. Removals

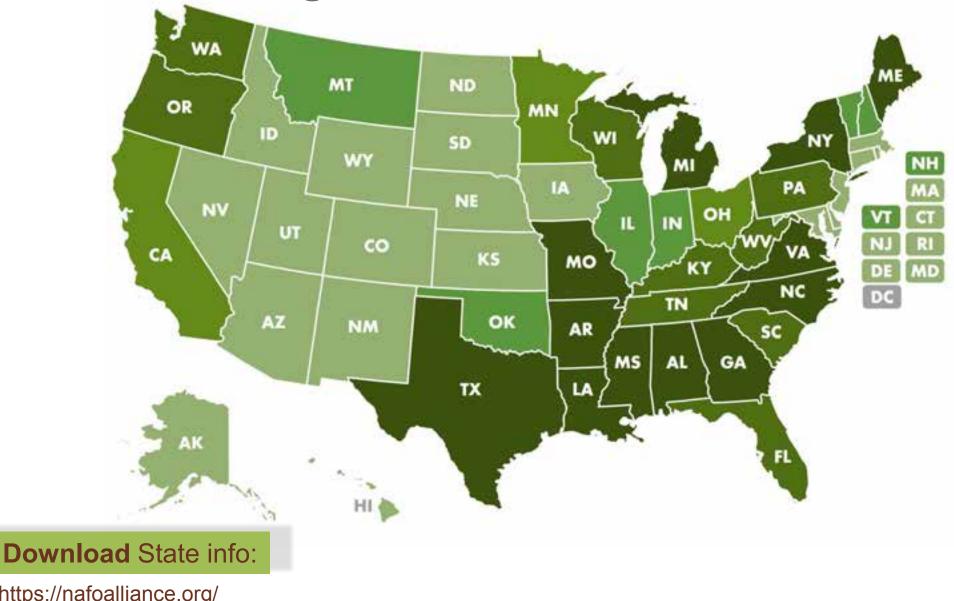
U.S. timber growth and removals, 1920–2006 (Billions of cubic feet per year)



Wood Products Increase Forest Value & Support Rural Economies



Private Working Forests



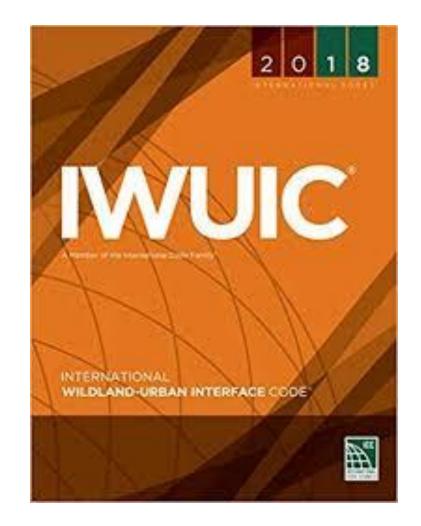
Privately Owned Timberland by State

0 - 3 Million 3 - 6 M 6 - 9 M 9-12 M 12M+

https://nafoalliance.org/

Wildland Urban Interface (WUI) International WUI Code

- Check w/ local AHJ for adoptions and modifications of WUI codes
- Defensible space
- Exterior Building Envelope
- Exterior Walls



Fire Performance

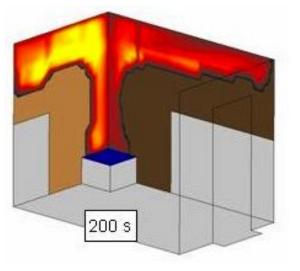






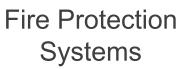


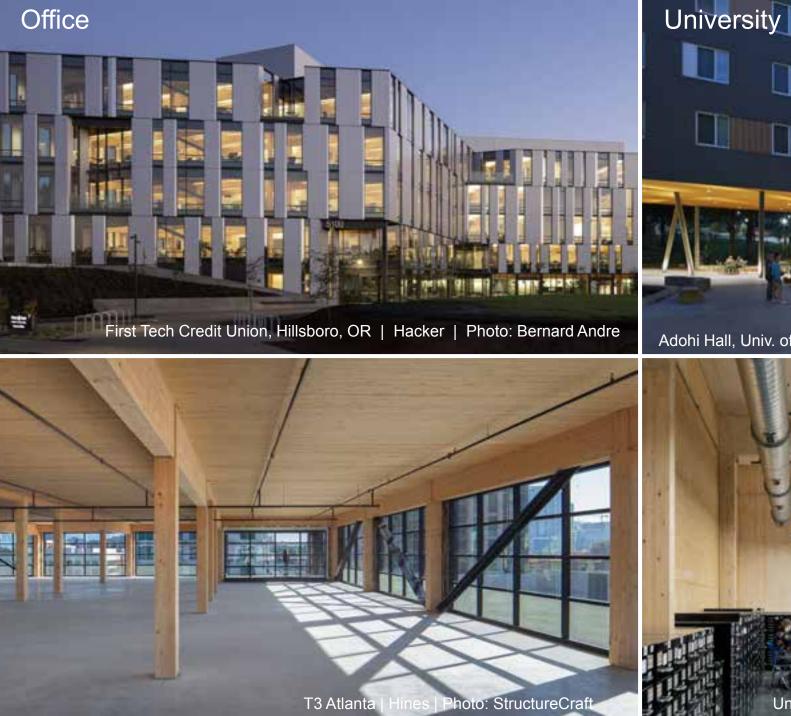
Fire Resistance



Flame Spread Classification

Combustibility











Questions?

Enter-d-Bhiller

Janelle Leafblad, PE Regional Director, WoodWorks janelle.leafblad@woodworks.org (415) 310-8549

T3 Atlanta | Architects: Hartshorne Plunkard Architects, DLR Group | Photo: StructureCr