

Cross Laminated Timber

City of Tacoma | PDS

Infrastructure, Planning, and Sustainability Committee Sept 26, 2018 ITEM 18-1109

***OVERVIEW



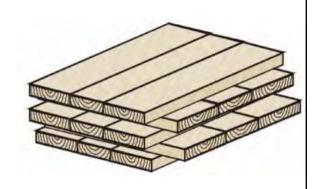
- What is cross laminated timber (CLT)?
- Advantages/Opportunities of using mass timber as a building material
- Update on adoption of building codes related to mass timber
- Challenges to using mass timber locally

****BACKGROUND



What is CLT?

- Layers of lumber boards are stacked in alternating directions
- Bonded with structural adhesives
- Pressed to form a solid, straight, rectangular panel



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***BACKGROUND



Current Building Code Rules

- Considered Type IV
- Limited to 5 (residential) or 6 stories (office); Up to 85 feet
- Allowable building size varies depending on proposed use



***BACKGROUND



• Examples of CLT Construction in the Pacific NW





***BACKGROUND

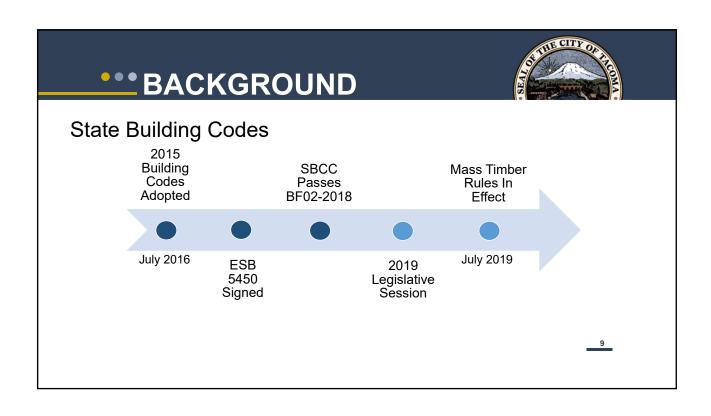


• Examples of CLT manufacturing and construction





*******BACKGROUND **Model Building Codes** 2021 Building Codes Committee Ad-Hoc Action Committee Hearings Formed **Published** Summer December Code Public 2015 2020 Proposals Comment Submitted Hearings









•••• OPPORTUNITIES



Building under construction - 2110 Commerce





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••• CHALLENGES





- Supply chain
- Contractor familiarity
- Staff training
- Seismic forces

••••OUTREACH



- Committees
 - State Building Code Council TAG
 - WA Assoc. of Building Officials (WABO)
- Conferences/Hearings
 - International Code Council
 - CLT/Mass timber Building for a Sustainable Future event
- Other Contacts
 - APA, Tacoma, WA
 - UW Facilities staff

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*** NEXT STEPS



- Fall, 2018 -ICC Public Hearings/Voting
- Spring, 2019–WA State Legislature approval
- July, 2019 State building codes amended w/mass timber rules
- July, 2019–Tacoma Building Code amended to adopt new state rules



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