



Life Cycle Assessment (LCA) of Cross-Laminated Timber (CLT) Produced in Western Washington: The Role of Logistics and Wood Species Mix

<https://research.thinkwood.com/en/permalink/catalogue2009>

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Material: CLT (Cross-Laminated Timber)

Topic: Environmental Impact

Keywords: Life-Cycle Assessment
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Language: English

Research Status: Complete

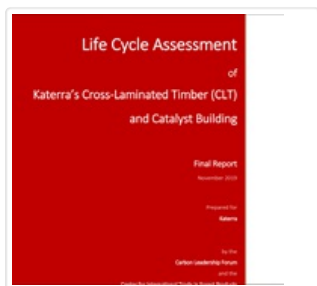
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Life Cycle Assessment of Katerra's Cross-Laminated Timber (CLT) and Catalyst Building: Final Report

<https://research.thinkwood.com/en/permalink/catalogue2545>

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Organization: Carbon Leadership Forum
Center for International Trade in Forest Products

Year of Publication: 2019

Country of Publication: United States
Format: Report
Material: CLT (Cross-Laminated Timber)
Topic: Environmental Impact
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Summary:

Katerra has developed its own cross-laminated timber (CLT) manufacturing facility in Spokane Valley, Washington. This 25,100 m² (270,000 ft²) factory is the largest CLT manufacturing facility in the world, and is capable of producing approximately 187,000 m³ of CLT per year. Katerra has also established a vertically integrated supply chain to provide the wood for the CLT factory. Production started in summer of 2019.

Katerra commissioned the Carbon Leadership Forum (CLF) and Center for International Trade in Forest Products (CINTRAFOR) at the University of Washington to analyze the environmental impacts of its CLT as well as the Catalyst Building in Spokane, Washington. The Catalyst is a 15,690 m² (168,800 ft²), five-story office building that makes extensive use of CLT as a structural and design element. Jointly developed by Avista and McKinstry, Katerra largely designed and constructed the building, and used CLT produced by Katerra's new factory. Performing a life cycle assessment (LCA) on Katerra's CLT will allow Katerra to explore opportunities for environmental impact reduction along their supply chain and improve their CLT production efficiency. Performing an LCA on the Catalyst Building will enable Katerra to better understand life cycle environmental impacts of mass timber buildings and identify opportunities to optimize environmental performance of mid-rise CLT structures.

The goal, scope, methodology, and results of this analysis are detailed in this report.

Online Access: Free

Resource Link

<https://assets2.katerra.com/wp-content/uploads/2020/02/25111837/Katerra-LCA-Final-Report-2020-update.pdf>



Massive Wood Material for Sustainable Building Design: the Massiv-Holz-Mauer Wall System

<https://research.thinkwood.com/en/permalink/catalogue2101>

Author: Santi, Silvia
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Publisher: SpringerOpen

Year of Publication: 2016

Country of Publication: United Kingdom

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: Walls

Topic: Environmental Impact

Keywords: Global Warming Potential
Ozone Depletion Potential
Photochemical Ozone Creation Potential
Human Toxicity Potential
Massiv-Holz-Mauer

Language: English

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