



Seeing the Forest and the Trees: Environmental Impacts of Cross-Laminated Timber

<https://research.thinkwood.com/en/permalink/catalogue2702>

Author: Kwok, Alison
Zalusky, Hannah
Rivera, Maria Isabel
Rasmussen, Linsday
McKay, Hannah

Publisher: Taylor&Francis Online

Year of Publication: 2020

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Topic: Environmental Impact

Keywords: Greenhouse gas emissions
Embodied Carbon
Embodied Energy
Life Cycle

Language: English

Research Status: Complete

Series: Technology
Architecture + Design

Summary:

With advances in wood product development and building code acceptance, mass timber structural systems have become viable alternatives to steel and concrete structural systems (Post 2015). These mass timber systems have environmental benefits, such as carbon sequestration ability and lower greenhouse gas emissions than steel and concrete systems. How can mass timber materials such as cross-laminated timber (CLT) reduce the environmental impacts of buildings, and how certain is this reduction? In order to truly answer this question, environmental impact assessments of CLT and other wood materials must first address variation and uncertainty in forest management and biogenic carbon accounting.

Online Access: Free

Resource Link

<https://www.tandfonline.com/doi/full/10.1080/24751448.2020.1804754> ↗