



A Cradle-to-Cradle Approach to Timber Post and Beam Structures

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 DLT (Dowel Laminated Timber)
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Summary:

The Cradle-to-Cradle Certification at Platinum level, awarded to products which perfectly embody the principles of Cradle-to-Cradle design, is perhaps one of the most esteemed standards of excellence in sustainability circles. Currently, there is no Platinum-level product which can deliver the classic post-and-beam structural system. This literature review investigates the possibility of a timber beam product filling in that gap, and the potential design specifications necessary to do it. Findings suggest that the resin component of current glulam beams harm the Cradle-to-Cradle assessment rating, therefore posing a challenge to find eco-friendly alternative. Potential candidates such as lignin and casein resin are studied, along with the novel technology of welded dowel-laminated timber.

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Resource Link

http://wiki.bk.tudelft.nl/mw_bk-wiki/images/b/b2/Research_Yu_F_-_C2C_timber_beams.pdf