



Environmental Performance of the Building Envelope of Wood Buildings - Materials and LCA Approach

<https://research.thinkwood.com/en/permalink/catalogue2333>

Organization: Université Laval

Research Status: In Progress

Notes: Project contact is Pierre Blanchet at Université Laval

Summary:

This project will carry out a life cycle analysis of the main building envelopes for a typical building in commercial construction. Drawing on our design partners, the main systems and associated materials will be analyzed in a cradle-to-grave approach. The aim is to identify hot spots and indicate product development opportunities to reduce the environmental footprint of the envelope. Among the scenarios to be considered: light framing, CLT, curtain walls and all their possible variants, but also the non-biosourced systems commonly used. The comparison between the systems studied will be based on equivalent energy efficiency performance.