



**ELEMENT5**  
MODERN TIMBER BUILDINGS

# CLIPs

Cross-Laminated Insulated Panels are a prefabricated mass timber building envelope assembly.



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## CLIPs from Element5

- High-Performance
- Customizable
- Energy-Efficient
- Quickly Assembled
- Cost-Effective

# CLIPs

Cross-Laminated Insulated Panels are a cost-effective, customizable, complete building envelope solution made from CLT. CLIPs are prefabricated off-site in a controlled factory environment and add value to projects by shortening overall construction timelines, facilitating rapid building enclosure, and increasing both the quality and energy performance of the building envelope.



## A Customizable Solution

Although they are prefabricated components, CLIPs provide a bespoke solution that can be designed to meet the needs of each project. They can be built to varying degrees of completion in the factory where windows, doors and cladding can all be pre-installed.

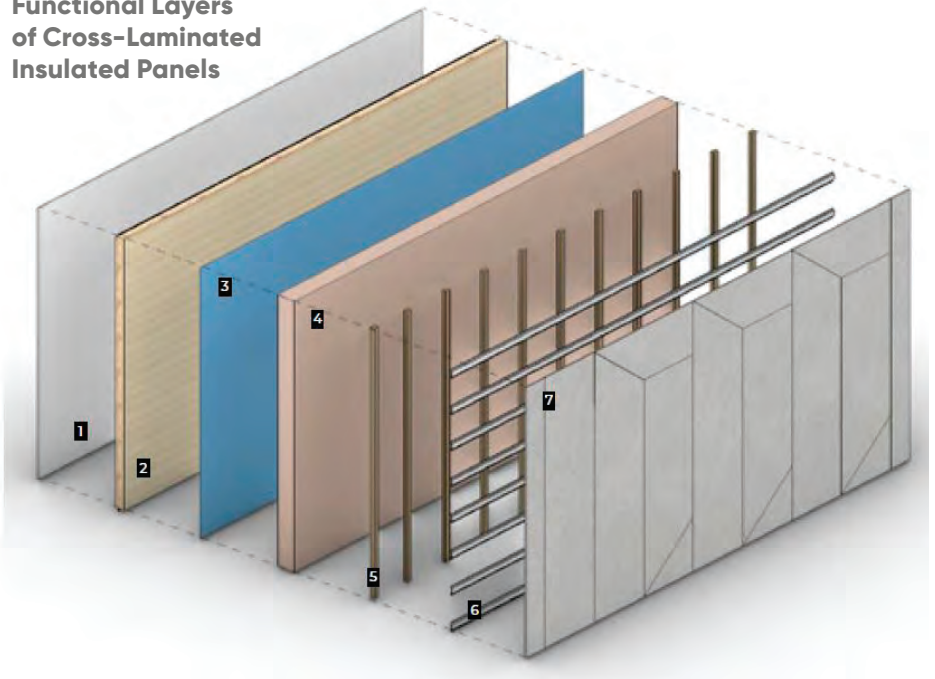
The wall assembly can be structural or non-structural and customized to achieve any R-value or thermal criteria including Passive House. CLIPs are most commonly made with wood fibre or EPS insulation, but mineral fibre insulation is also used, particularly for tall buildings.

Suitable for both all-wood and hybrid construction, CLIPs can be fabricated to suit any design requirement.

### CONTACT US:

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## Functional Layers of Cross-Laminated Insulated Panels



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|--|---|
| <ol style="list-style-type: none"> <li>1 Interior Cladding (Optional)</li> <li>2 CLT Panel</li> <li>3 Vapour Permeable Membrane</li> <li>4 Insulation</li> <li>5 Treated Wood Battens</li> <li>6 Horizontal Channel</li> <li>7 Cladding</li> </ol> | <p>Additional Fire Protection Structure + Airtight Layer<br/>Moisture Control<br/>Thermal Layer<br/>Ventilation Layer<br/>Cladding Attachment<br/>Protective Layer + Aesthetics</p> |
|--|---|

Most projects can benefit from the added value CLIPs provide. Commercial projects, including mixed-use occupancies, multi-unit residential developments, and large-scale offices, are well-suited to CLIPs, as are institutional projects in the healthcare and education sectors. Smaller projects can also take advantage of a CLIP system. Some notable recent examples include a pre-fabricated housing solution for First Nations, and a fire station for a major city - a clear endorsement regarding the fire safety of modern mass timber construction.



The maximum panel size is 3.5m x 6m. These dimensions are optimized for highway transportation. In the image above, CLIPs with foundation connections pre-installed are sequenced, stacked and ready for protective wrapping to be applied prior to loading and shipping to the site for rapid assembly.

