



Study of the Seismic and Dynamic Behavior of Glued Rod Assemblies

<https://research.thinkwood.com/en/permalink/catalogue2668>

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 Seismic
 Connections
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 Glued-In-Rod
 Beam-Column Connection
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Summary:

The main objective of the research project is to assess the behavior of bonded rod assemblies under dynamic stresses. These wood / wood connections are used in solid wood frames and allow, among other things, to transfer the moment in beam-column connections. Their ability to dissipate energy under seismic loading will be evaluated by cyclic laboratory tests by varying the sections and configurations of the assemblies. The whole structure must be able to dissipate energy under dynamic loadings (earthquakes, wind) and the demand for ductility in the assemblies is considerable in rigid frame structures. This project will make it possible to characterize the behavior of timber / timber assemblies in glued rods under cyclic loads. The results obtained can be used by the partner for the seismic design of solid wood structures using these connections. Optimization and a better understanding of the dynamic behavior of these assemblies will also increase the safety of solid wood structures, and promote their acceptance in this developing market.

Resource Link

<https://cercerb.chaire.ulaval.ca/projets/msc-rdc-63-etude-du-comportement-sismique-et-dynamique-des-assemblages-en-tiges-collees/> ↗