Adhesive Free Timber Buildings

Hamed Makradi*[†] , Zhongwei Guan* , Annette Harte* , Peer Haller* , Salim Belouettar¹, and François Deneufbourg

 $^{1}\mathrm{Luxembourg}$ Institute of Science and Technology (LIST) – Luxembourg City Luxembourg, Luxembourg

Abstract

Regulatory and customer pressure is driving an increasing need for sustainability in the construction sector. Replacing the glue in laminated timber products offers a route to this goal. While the greatest environmental impact of these adhesives is during manufacture, their presence may significantly hinder the recycling/reuse potential of engineered wood products (EWPs). Timber buildings are normally constructed using EWPs connected using steel connectors. Changing from steel to wood-based connection systems will enhance their environmental performance. This mini-symposium will provide a forum for presentation and discussion of the state-of-the-art in field of wood material characterization and modelling, engineered wood products testing and design with emphasis on adhesive free timber construction.

Keywords: Wood material, wood structures, connectors

^{*}Speaker

[†]Corresponding author: ahmed.makradi@list.lu