



Environmentally-Friendly Adhesives for Wood Products Used in Construction Applications

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Author: Nakos, Panagiotis
Achelonoudis, Christos
Papadopoulou, Electra
Athanassiadou, Eleftheria
Karagiannidis, Emmanouil

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Summary:

The objective of this work was the development of environmentally-friendly, sustainable adhesive systems for the manufacture of engineered wood products (mainly glulam) to replace synthetic adhesives made from petrochemicals. Lignin-based adhesive systems were proven to provide industrial glulam products with performance comparable to the products produced with conventional gluing systems. The application of this innovative adhesives technology is expected to provide environmental and cost benefits and to lead to higher demand for glulam products when carbon neutral building solutions are sought.

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