



Glulam and CLT Innovative Manufacturing Processes and Product Development: Fire Performance of Adhesives in CLT. Part 1: Small-Scale Flame Test

<https://research.thinkwood.com/en/permalink/catalogue2606>

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 Organization: FPInnovations
 Year of Publication: 2017
 Format: Report
 Material: CLT (Cross-Laminated Timber)
 Topic: Fire
 Keywords: Fire Test
 Fire Performance
 Adhesive
 Heat Delamination Characteristics
 Structural
 Research Status: Complete

Summary:

The main objective of this study is to evaluate heat delamination characteristics of structural adhesives used for face bonding of cross-laminated timber, when subjecting both sides of CLT specimens to the small-scale flame test as required in the normative Annex A.2 of CSA O177 "Qualification Code for Manufacturers of Structural Glued-Laminated Timber" [3]. While not technically in accordance with the CSA O177 Annex A.2 methodology, this flame exposure allows for a direct comparison to previous work performed on glulam specimens [2].

The long-term objective is to determine which currently-accepted test method allows for a better evaluation of heat delamination characteristics of adhesives used in structural engineered wood products, based on their actual end-use applications (e.g. bending, compression, combined stress, etc.) and their inherent manufacturing characteristics (e.g. cross-ply, etc.)

Online Access: Free

Resource Link

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