



Stub Girder Flooring System for Timber Construction

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 LVL (Laminated Veneer Lumber)

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Summary:

This article presents the concept of the stub girder flooring system adapted to timber structures. The floor system consists of LVL beams covered by CLT floor panel separated by a series of short shear connection called stubs. The paper focusses on the analytical development to predict the optimized flooring system dimensions for future experimental tests. The proposed model contains structural parameters such as the main girder and secondary Gerber beam, the stubs and the CLT panel with various materials. This initial investigation into this concept suggests that the flooring system can be a possible alternative for mid to long span frames.

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Resource Link

http://schr.ws/hosted_files/wcte2014/69/ABS655_Masoudnia_web.pdf