



## A Vibration-Based Approach for the Estimation of the Loss of Composite Action in Timber Composite Systems

<https://research.thinkwood.com/en/permalink/catalogue218>

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Material: LVL (Laminated Veneer Lumber)

Application: Beams

Topic: Mechanical Properties

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Damage Index (DI) Method  
Loss of Composite Action Index (LCAI)

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Research Status: Complete

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Summary:

This paper presents a novel approach for the determination of the loss of composite action for timber composite systems using only measurements from non-destructive vibration testing. Traditionally, the composite action of a system is evaluated from stat...

Online Access: Free

### Resource Link

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# Dynamic Performance of Timber and Timber-Concrete Composite Flooring Systems

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Author: Rijal, Rajendra  
Organization: University of Technology Sydney  
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Material: LVL (Laminated Veneer Lumber)  
Timber-Concrete Composite  
Application: Floors  
Topic: Connections  
Serviceability  
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Costs  
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Long Span  
Multi-Storey  
Sustainability  
Vibrations  
Small Scale  
Static Load Tests  
Damage Index (DI) Method  
Loss of Composite Action Index (LCAI)  
Language: English  
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## Resource Link

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<http://hdl.handle.net/10453/21821> [↗](#)