



## Load Testing and Assessment of a Field Demonstration CLT Bridge

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Organization: South Dakota State University  
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 Material: CLT (Cross-Laminated Timber)  
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 Long-term Performance  
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 Notes: Project contact is Junwon Seo at South Dakota State University  
 Summary:

Cross-Laminated Timber (CLT) has great potential to promote wood products markets in appropriate transportation structures, particularly bridges on low-volume roads such as rural or forest roads. The project's goals are to perform field load testing and evaluation of a demonstration CLT bridge on the nation's low-volume roads and evaluate its long-term performance under in-service loads and environmental exposure. The team will pursue these goals through the following research objectives: 1) Design the demonstration CLT bridge system with design details; 2) Fabricate the designed CLT bridge; 3) Install the fabricated CLT bridge on a roadway in Grand Portage National Monument with Western Wood Structures, Wheeler, Cook County in Minnesota and the National Park Service; and 4) Perform load testing to assess performance of the implemented bridge and monitor its moisture content and field performance through visual inspection for its long-term behavior evaluation.