



Designed Wood Products for Aesthetic and Built Environment

Guest Editor:

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Message from the Guest Editor

Wooden structures provide aesthetic, structural strength, health and environmental benefits. Engineered wood products (EWPs), such as laminated veneer lumber (LVL), glued laminated (Glulam) and cross-laminated timber (CLT), are becoming essential components of modern timber construction and have opened up new possibilities for large format wooden buildings.

However, there are some limitations to wooden structures in terms of their service life and performance affected by moisture exposure. Under persistent moisture exposure, wood can reach fibre saturation, at which point it becomes a conducive habitat for decay fungi that can, over time, reduce its structural capacity and render it unserviceable.

Some timber species are naturally durable; however, many others are not durable and therefore require the application of chemical or other means of modification (chemical, non-biocidal or thermal) to extend and preserve the life of timber products in service.





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