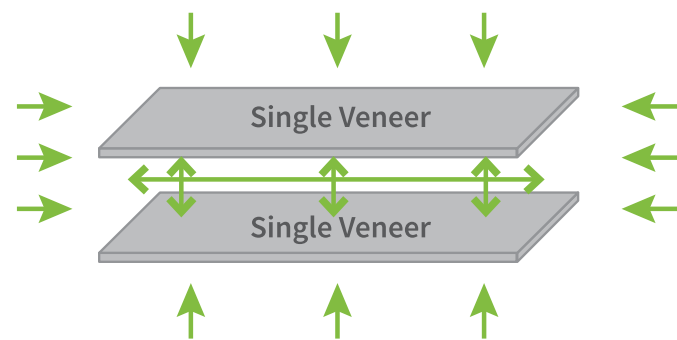


## PRESERVATIVE TREATMENT

NiuBridge and NiuDeck utilise the veneer preservation treatment method to ensure complete protection from termites and fungal decay (rotting). Veneer treatment is the only way to ensure complete penetration.



## CERTIFICATION

NiuBridge product design loadings are in accordance with the Austroads Bridge Design Code or the Australian Standard AS5100 Bridge Code.

As part of our commitment to quality, NiuBridge system testing and certification is undertaken by University of Technology Sydney which includes full scale destructive testing

NiuBridge products incorporate key advances in both processing and preservation treatment into the design which underpin the product's TimTech warranty.



NiuBridge and NiuDeck are produced from 100% sustainable plantation pine and are specifically designed for all small to medium applications



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Contact us to discover why NiuBridge is the best solution for your project.

**PNGFP**  
NiuBridge  
Engineered Wood Products

**PNGFP**  
NiuDeck  
Engineered Wood Products



An exciting alternative bridge construction system

Road and rail applications

Complete termite and rot protection

**PNGFP**  
NiuBridge  
Engineered Wood Products



**Engineered Wood Product (EWP) NiuBridge is a lightweight, modular bridge system that offers fast, cost effective and reliable solutions for long term and temporary bridging installations.**

Our bridges provide strong, reliable transport solutions for a variety of infrastructure projects including bridge replacements, upgrades, new developments and temporary emergency or site access.

NiuBridge requires little maintenance thanks to our unique veneer preservation treatment method which ensures complete protection from termites and fungal decay.



All encompassing service offer from design to possible installation by third parties.

**Expertly designed, developed and engineered, NiuBridge is easy to transport and can be installed in a matter of hours**

### NiuBridge Features

NiuBridge is a prefabricated modular EWP bridge system which includes deck, girders, kerbing, and accessories with an optional pre-applied bitumen deck wearing surface.

Manufactured from plantation timber to both AS/NZS 2269 and AS/NZS1604 standards, NiuBridge exploits the advantages of natural timber which is not subject to fatigue failure like that of other materials. NiuBridge is suitable for a range of load conditions including Austroads 92T44 and AS5100 Bridge Design.

#### Features of the NiuBridge system include:

- Pre-fabricated modules up to 24m span
- Delivery to site in full or segmented span modules for easy installation
- Quick and easy to install
- Optional pedestrian access
- Preservative treatment
- Compliance with the load conditions of Austroads Bridge Design Code or the Australian Standard AS5100 Bridge Design
- Meets and exceeds the ULS requirements of both T44 and S1600 loading conditions

### NiuBridge Advantages

- Reduction in cost due to improved material efficiency
- Reduction in site installation time, road closures and labour costs, making new EWP structures a possibility
- Installation uses existing standard skills
- Compatible with concrete and steel supporting members
- Low embodied energy and life cycle energy costs
- Light weight solution which saves piling / footing costs
- Available in single span or multi-span bridges

 Design Life of 50+ years

### NiuDeck

**NiuDeck is a purpose designed and engineered heavy plywood decking system which is primarily used for re-decking traditional timber bridges.**

Developed as a renewable alternative to traditional hardwood sawn timber, NiuDeck is manufactured from sustainable plantation pine available in a range of thicknesses.

In addition, a custom design service is available to manage the most challenging applications.

**NiuDeck can be used with steel or timber supporting structures including wharf and rail deck applications**

### NiuDeck Advantages

- Manufactured to a minimum stress grade of F14
- Light weight
- Reduced installation time
- Mill certified by EWPAAS JAS-ANZ
- Regular testing and audits at NATA accredited facility in Australia
- Facilitates bridge widening by cantilevers
- Sustainable high strength plantation resource
- ACQ H4 Veneer Treatment preservation
- AFS/PEFC chain of custody certified
- AS5100 W80 and Austroads T44 design loads

 Design Life of 50+ years