

WOOD IN ARCHITECTURE

Flooring / Doors & Windows / Wood structures

MICA (P) No: 123/05/2018 • ISSN: 0219-5704 • www.panelsfurnitureasia.com • Issue 1, 2020

BRIDGING FUNCTIONALITY WITH ARTISTRY
BUILT TO STAY, FOR ANOTHER 100 YEARS
TERRAWOOD: BRINGING OUTDOOR
SOLUTIONS FROM TURKEY TO
SOUTHEAST ASIA

Photo credit: Jason Mamm



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BRIDGING FUNCTIONALITY AND ARTISTRY

An important factor for a country's progress, Wood in Architecture celebrates some of the most legendary transport infrastructures in this issue.

Transport infrastructures are vital to the well-functioning of economic activities and a key to ensuring social well-being and cohesion of populations, according to the United Nations Economic Commission for Europe (UNECE). They can make or break the facilitation of transport and passenger flows as well as the production and distribution of goods.

In this feature, Wood in Architecture explores how transport infrastructures showcase their flair and warmth with the usage of wood.

The \$32 million (S\$28.5 million) terminal ▲ redevelopment has been lauded as a tribute to and showpiece for the region by breaking away from the traditional usage of concrete and steel, and choosing instead to make use of wood as its primary building material

NELSON AIRPORT: FLYING HIGH

After four years, New Zealand's Nelson Airport has finally opened – and it's gorgeous.

The US\$32 million terminal redevelopment has been lauded as a tribute to and showpiece for the region by breaking away from the traditional usage of concrete and steel, and choosing instead to make use of wood as its primary building material. To be specific, the terminal uses laminated veneer lumber (LVL) sourced from Nelson pine forests and processed by Nelson Pine Industries.

The LVL portal legs are cantilevered to provide a lateral bracing system that allows for unobstructed clear open spaces internally. Twenty-four columns also incorporate a dampening system that can absorb large seismic loads while the roof is a lightweight stress skin panel that acts as the ceiling diaphragm.

The new terminal design was created by Studio Pacific Architecture and managed by Aesculus Project Management. Jointly owned by the Nelson city and Tasman district councils, the airport company began the redevelopment in June 2017, with an expectation that the project would take two years.

The redevelopment project was started in response to the rapid growth in passengers and airlines using the airport, and the new infrastructure has been designed to cater for the forecast growth to 1.4 million passengers in 2035.

The new building replaces the terminal that was built in 1974.

All images are credited to Jason Mann.



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▼ The LVL portal legs are cantilevered to provide a lateral bracing system that allows for unobstructed clear open spaces internally

