



**NEW ZEALAND**

## **Prefabricated solutions industry in New Zealand**

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### **Overview**

New Zealand manufacturers have developed a range of completely pre-fabricated home design solutions shipped in 'knocked down' form for easy assembly in the country of destination.

Prefabricated solutions use a range of different building systems, from insulated panel structures and log homes to convenient international standard-sized timber framing. Major markets for prefabricated homes are Asia/Pacific (including Japan, Korea, Taiwan, China, Vanuatu, Cook Islands and Australia), Europe, the Middle East and the United States.

Key markets for wooden building components include the United States, Japan and Australia.

New Zealand is a major supplier of mouldings and millwork to the United States for a range of interior fit-out products and is starting to supply dressed boards to "do-it-yourself" outlets. New Zealand suppliers are also developing a strong offering to the interior fit-out markets in China.

Timber products include:

- feedstock for further manufacturing (blocks, finger joint blanks)
- interior building products (blocks, finger joint blanks, finger joint mouldings, solid lineal mouldings, window, door and stair parts, wall panelling and flooring)
- exterior building products (weatherboards, fascia, exterior door jambs, handrails, balustrades and decking)
- engineered wood products (glue laminated and LVL beams and structures)
- furniture components and do-it-yourself products (solid and laminated squares, edge glued panels, cut-to-length components, dressed DIY boards).



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### **Fast facts**

- The export value of New Zealand prefabricated wooden buildings has nearly trebled over the past three years (to June 2008) from NZ\$6.04 million in 2006, NZ\$18.9 million in 2007 and NZ\$15.83 million in 2008.
- New Zealand prefabricated pine buildings are used in tourist resorts in the Middle East and the South Pacific because of their minimal environmental impact and use of sustainable building materials.
- Most New Zealand lumber processing plants are small to medium-size and can customise products to individual buyers' requirements.

### **International innovations**

#### **[The Lockwood Group](#)**

The Lockwood Group exports timber beams, timber components, timber flooring and solid timber homes, as well as timber treatment and timber processing services. In Lockwood's unique building system, walls are locked together using an aluminium profile that slots into machined grooves in solid laminated New Zealand pine. Lockwood International's overseas projects include homes in the Middle East, an events centre in Japan, a bank in Tonga, church buildings throughout the Pacific, and New Zealand's buildings at two World Expos.

#### **[McIntosh Timber Laminates](#)**

McIntosh Timber Laminates is a pioneer of glue laminated (glulam) structures using renewable New Zealand pine. Continuous laminations are produced up to any length using the unique McIntosh finger joint system. For the Grand Hyatt Hotel, Dubai, McIntosh designed 34 metre long, 7 metre deep 'keel' trusses that proved more cost-effective than the steel frames originally planned. The McIntosh glulam structure in the completed feature ceiling supports a total area of 34 metres x 56 metres.

### **Collaborations**

#### **[Bodyguard Wood Products](#)**

A joint venture between three New Zealand companies – Jenkin Timber, Pacific Timber and Taranaki Sawmills – Bodyguard Wood Products produces and markets durable, treated timber exterior wall cladding products for the United States market. The joint venture enables the individual companies to achieve the required scale, capability and financial support to meet the needs of the United States market.

### **Sustainability achievements**

#### **[The Lockwood Group](#)**

Lockwood has produced the EcoSmart range of prefabricated homes, designed to minimise impact on the environment using the latest in eco-innovations. Built from locally sourced, plantation-grown timber, EcoSmart's self-sufficiency features include on-site power generation,

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solar hot water systems and rainwater harvesting. The entire range comes with high levels of insulation and natural ventilation, and includes low-energy appliances and lighting, and low-toxicity finishes throughout.

### **Industry contacts**

#### **[New Zealand Pine Manufacturers' Association](#)**

The New Zealand Pine Manufacturers' Association comprises businesses manufacturing solid wood items such as furniture and components, interior fittings, structural products and exterior products.

#### **[NZ Wood](#)**

NZ Wood is a major promotional and development programme to promote New Zealand forests and wood resources. The NZ Wood programme is jointly funded by the forestry industry and the New Zealand Government through Forest Industry Development Agenda – FIDA. The FIDA fund is administered by MAF for industry development initiatives.

#### **[New Zealand Trade and Enterprise](#)**

New Zealand Trade and Enterprise (NZTE) is the New Zealand government's economic development agency and works with the prefabricated solutions and building materials industry to build up its capability and increase its international connections.