Timber-based hybrid buildings - Build 179 (2020)

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Abbreviation
Timber-based hybrid buildings
Valid from
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Information provider
BRANZ Limited
Information type
BUILD article
Format
Website, PDF

Description

BRANZ is developing guidance that will support designers to incorporate a range of hybrid solutions in light timber-framed buildings, supporting the growing popularity of low-rise and mid-rise housing.

New Zealand has an extensive history of using light timber framing (LTF) in residential houses due to its many advantages. These include local availability, a high strength-to-weight ratio and good performance during earthquakes. As the demand for higher-density housing continues to grow, it has led to more LTF use in multi-storey buildings beyond the scope of NZS 3604:2011 *Timber-framed buildings*.

A recent BRANZ publication, *Multi-storey light timber-framed buildings in New Zealand: Engineering design*, has guidance on multi-storey LTF buildings. Through the development of this guidance and other related research, it became apparent that combinations of stiffer and stronger structural systems could be beneficial for the seismic performance of multi-storey LTF buildings.

Scope

This article includes:

- Combination systems seismically vulnerable
- Understanding deformation compatibility
- Project to develop design guidelines
  - Looking at specific seismic issues
  - Stakeholders help focus on common systems
- Help designing low-rise and mid-rise residential buildings

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