

## Design Software (Spanman) - Release 2 - April 2021

Product Manufacturer	Spanware Pty Ltd 17 Kerr Street Fitzroy Melbourne Victoria 3065 Telephone: 00-61-3-8685 8718
Product Authors	Peter Felicetti BE(Civil) BArch(Hons) NPER CpEng RPEQ Registered Building Practitioner VIC Registered Building Practitioner TAS Petras Surna BE(Hons) Civil, Software Engineer The authors have over 25 years' experience designing building structures on all scales and 20 years' experience creating software
Product Certifier (New Zealand)	Nick Calvert, BE (hons), CMengNZ, CPEng, IntPE (242062) CGW Consulting Engineers 44 Halifax Street, Nelson 7010 Telephone: 00-64-3-548 8259  A Certification Letter can be found on page 2.
Product Description	SpanMan is web based software for the design of timber members such as rafters, joists and beams in accordance with New Zealand standards using sound and accepted engineering principals and methods. Developed in Australia, SpanMan has been upgraded for use in New Zealand by Spanware by incorporating New Zealand loading conditions such as wind and snow.
Scope of Use	SpanMan can be used for building designs within the scope of NZS3604
Designs + Certification	SpanMan designs for Lumberworx products can be carried out from <a href="http://lumberworx.spanman.net">http://lumberworx.spanman.net</a> Design certificates and Engineering calculations can be downloaded in PDF format after each calculation has been completed.

CGW Ref: 17016-LET-001-A Spanman Certification

Date: 28 April 2021

## Structural Review of Lumberworx Design Software Provided by Spanman for use in New Zealand

### Certification Letter

**April 2021**

CGW Consulting engineers have reviewed Lumberworx.spanman Design Software produced by Spanware Pty Ltd in accordance with the following standards as of the release date May 2017:

- AS/NZS1170:2002 Structural Design Actions
- AS1720.1:2010 Timber Structures Part 1 Design Methods
- NZS3603:1993 Timber Structures
- NZS3604:2011 Timber Framed buildings
- The Engineering Basis of NZS3604:2013

The program designs rafters, beams, bearers, joists and lintels for domestic and light commercial applications using a range of engineered wood products. The review consisted of running a range of scenarios through the software and comparing it with existing proprietary design software and SED design to the above standards. No review of the internal program logic and design engine has been undertaken.

We are satisfied the software will meet the requirements of B1/VM1 when design inputs are by a competent, trained person (such as Structural engineers, LBP Designers, experienced truss detailers etc.) the software will enable selection of components to comply with the structural requirements of the New Zealand Building Code.

Yours faithfully,



Nick Calvert  
Principal Structural Engineer  
BE (Hons), CMEngNZ, CPEng, IntPE (242062)

**Civil • Structural • Environmental • Geotechnical • Project Management**

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