

# Innovations in Engineered Wood Construction

28<sup>th</sup> June 2023



# Welcome

In the spirit of reconciliation, Forest & Wood Products Australia acknowledges the Traditional Custodians of Country throughout Australia, and we acknowledge their connection to the land and their custodianship of Country and forests. We pay our respect to Elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples.



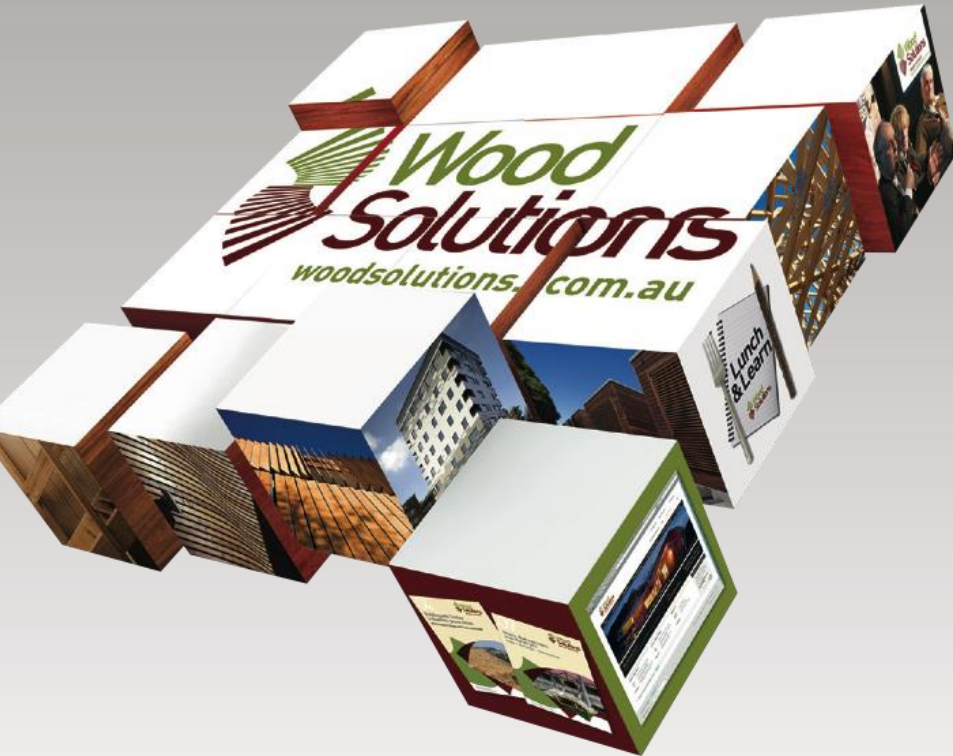
# Innovations in Engineered Wood Construction

## Welcome



*Alastair Woodard*  
*WoodSolutions Program Manager Vic*

# WoodSolutions™: Who we are



An Australian industry initiative, resourced by Forest and Wood Products Australia (FWPA) –

For architects, engineers, designers and other building professionals

- inspiration
- information & resources
- CPD.

# What WoodSolutions provides



Events



Technical Design Guides



Website: [woodsolutions.com.au](http://woodsolutions.com.au)



Technical Tutorials



Sponsorships



# Discover WoodSolutions



The image shows a laptop displaying the WoodSolutions website. The website's URL is <http://www.woodsolutions.com.au>. The page features a navigation menu with links for Home, Inspiration, Why Wood, Species/Materials, Applications/Products, Resources/Events, and Suppliers. A large featured image shows the 'Advanced Engineering Building'. Below this, there are sections for 'Latest Inspiration', 'Latest News & Blogs', and 'Events Calendar'. A sidebar on the right offers 'Free WoodSolutions Technical Design Guides'. The website is surrounded by callout boxes that provide more information and direct users to specific website sections.

**Australian and international case studies**

- More information
- Go to website

**Free professional CPD tutorials**

- More information
- Go to website

**Technical Design Guides & CAD files**

- More information
- Go to website

**Find and compare suppliers**

- More information
- Go to website

**Search the database, ask questions**

- More information
- Go to website

**Don't miss an event**

- More information
- Go to website

[www.woodsolutions.com.au](http://www.woodsolutions.com.au)

# WoodSolutions Events Calendar

WoodSolutions  
design and build  
woodsolutions.com.au

CAMPUS RESILIENT TIMBER HOMES MID-RISE ADVISORY MY ACCOUNT LOG OUT

Search WoodSolutions...

Species & Materials Applications Case Studies Resources Events Environment Find a supplier

## Events Calendar

### June 2023

« Previous Next »

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	1	2	3
4	5	6 WoodSolutions Webinar   Timber Concrete Composites - A Careful Balance and Opportunity 06 June 2023 11:00am ONLINE	7	8	9	10
11 WoodSolutions 2023 Study Tour - Sweden and Norway 11-17 June 2023 Sweden and Norway	12 WoodSolutions 2023 Study Tour - Sweden and Norway 11-17 June 2023 Sweden and Norway	13 WoodSolutions 2023 Study Tour - Sweden and Norway 11-17 June 2023 Sweden and Norway	14 WoodSolutions 2023 Study Tour - Sweden and Norway 11-17 June 2023 Sweden and Norway	15 WoodSolutions 2023 Study Tour - Sweden and Norway 11-17 June 2023 Sweden and Norway	16 WoodSolutions 2023 Study Tour - Sweden and Norway 11-17 June 2023 Sweden and Norway	17 WoodSolutions 2023 Study Tour - Sweden and Norway 11-17 June 2023 Sweden and Norway
18	19	20	21	22 WoodSolutions Proudly Sponsors   AIBS QLD/NT Chapter Conference 22-23 June 2023 Sofitel Brisbane Central 249 Turbot Street Brisbane Central, QLD 4000	23 WoodSolutions Proudly Sponsors   AIBS QLD/NT Chapter Conference 22-23 June 2023 Sofitel Brisbane Central 249 Turbot Street Brisbane Central, QLD 4000	24
25	26	27 WoodSolutions Seminar: Contemporary Timber Design Update 27 June 2023 8:30am NSW TEACHER FEDERATION CONFERENCE CENTRE RESERVOIR ST, SURRY HILLS	28 WoodSolutions Seminar: Innovations in Engineered Wood Construction 28 June 2023 12:15pm Library at the Dock - 107 Victoria Harbour Promenade, Docklands VIC 3008	29	30	1

Want to see your event here?

## WoodSolutions Seminar



### Innovations in Engineered Wood Construction

The interest in engineered wood construction continues to take the world by storm, and Australia punches well above its weight in terms of innovation, new product/system development, off-site manufacturing, design creativeness, and the delivery of amazingly beautiful projects.

Join us for this WoodSolutions Seminar to hear from some of Australia's leading timber industry and building professional experts who will present the latest knowledge on key design, specification, design tools cost, supply, and construction considerations for delivering innovative engineered wood construction solutions using products and systems, involving lightweight timber-framing, heavy timber post and beam, and massive timber panels such as LVL and Cross Laminated Timber (CLT).

The seminar presentations will feature a range of exemplary Australian timber and hybrid construction projects, and as a special themed case study, the amazing new T3 Collingwood project, currently being constructed right here in Melbourne, will be featured from an architectural, engineering, fabrication, and construction perspective.

This event is a must for all building and design professionals including architects, building designers, engineers, certifiers, developers, builders, regulators, educators, and students.

**Date**  
Wednesday 28<sup>th</sup> June 2023

**Venue**  
Library at the Dock Docklands

**Time**  
12.15 pm registration for 12.30 - 5.00pm

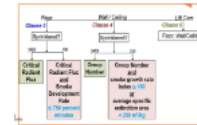
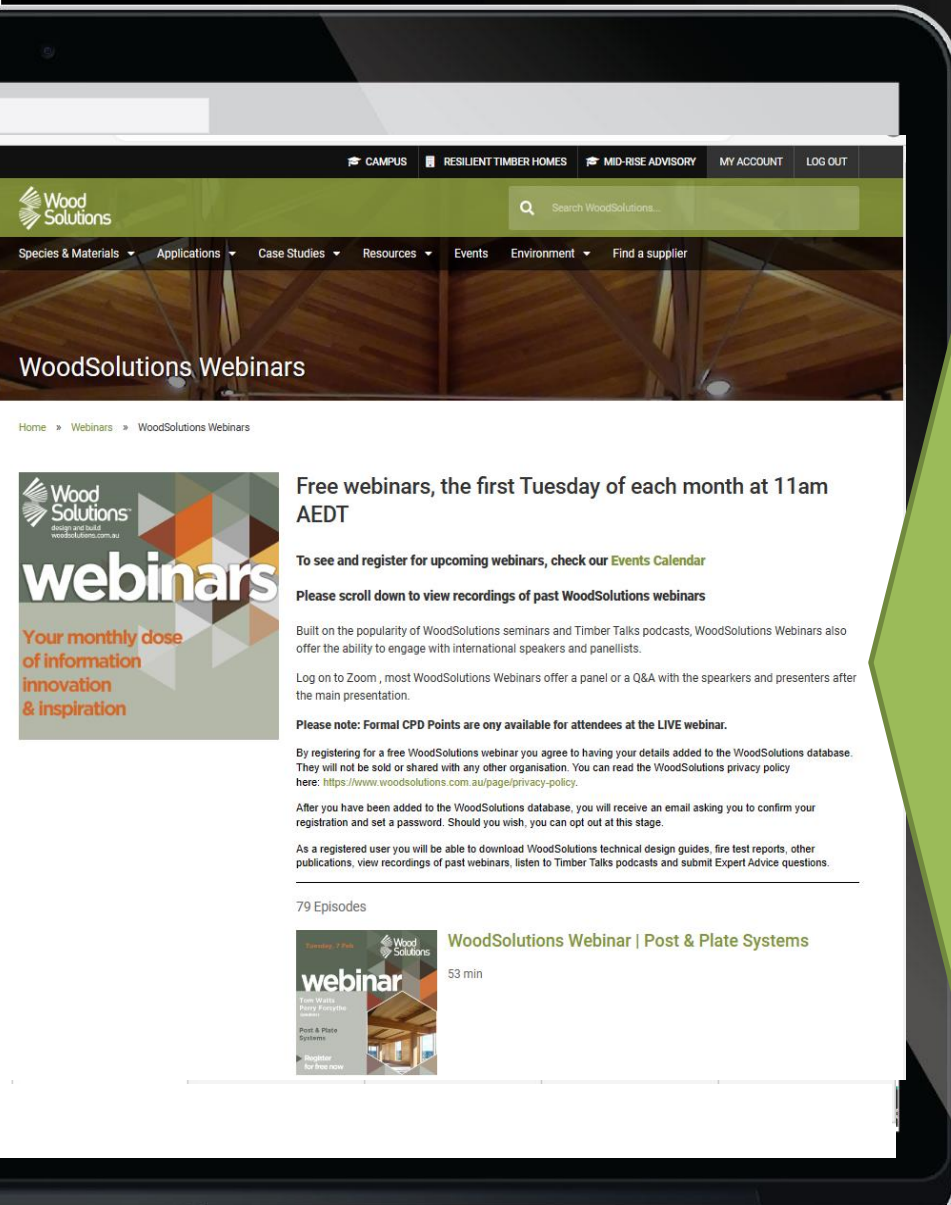
**CPD**  
4.0 Informal CPD points available for attendance.

**Cost**  
\$35.00 (GST included)

**RSVP early - limited places**  
Registrations close Friday, 23<sup>rd</sup> June 2023 (or when sold out)



# WoodSolutions Webinars



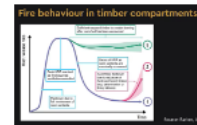
## Internal Timber Lining Systems for Commercial and Public Buildings

06 Sep 2022



## Case Study: Scion Innovation Hub - Richard Naish, RTA Studio

20 Sep 2022



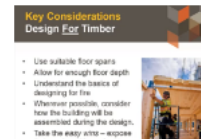
## Fire Safe Use of Wood in Buildings Global Design Guide

23 Aug 2022



## The Amazing Benefits and Real Challenges of Prefab in Residential Construction

09 Aug 2022



## Designing to meet budget: how to specify the right timber products for cost efficiency

12 Jul 2022



## Lessons on timber construction and maintenance from modern timber bridges

28 Jun 2022

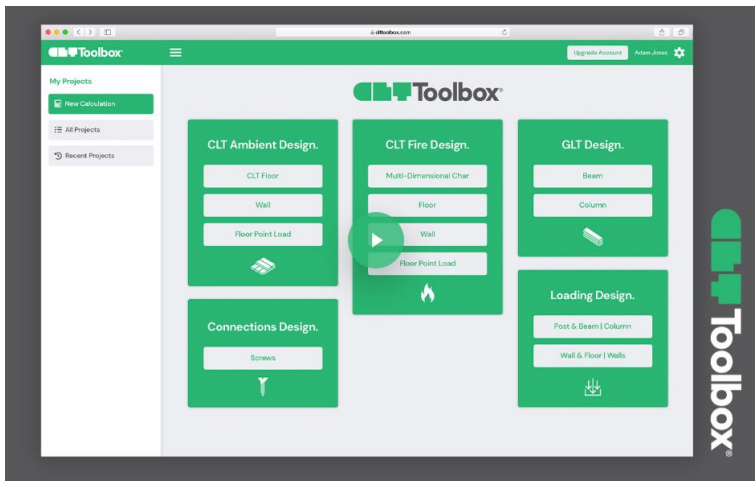


# WoodSolutions Webinar Series

## Next Month's Webinar

***Tuesday 4<sup>th</sup> July at 11am***

***New Innovative Software Taking the Structural Design of Timber to New Heights***



***Adam Jones***

Founder, CLT Toolbox



Technical Design Guides

Home » Technical Design Guides

Publication category

**01** **Timber-framed Construction for Townhouse Buildings Class 1a**

This guide considers MRTFC (Multi-Residential Timber Framed Construction), a certified fire and sound rated timber construction system conforming with the requirements of the Building Code of Australia (BCA) for multi-residential buildings

**02** **Timber-framed Construction for Multi-residential Buildings Class 2 & 3**

MRTFC is a certified fire and sound rated timber construction system conforming with the requirements of the Building Code of Australia (BCA) for multi-residential buildings

**03** **Timber Fire Design Compliance for Low-rise Office (Class 5) and School (Class 9) Buildings**

This offers designers, specifiers, builders, code officials and certifying authorities a guide that demonstrates how timber framed construction can achieve targeted fire and sound performance requirements

**04** **Building with Timber in Bushfire-prone Areas**

An explanation of the Australian Standard for construction of buildings in bushfire-prone areas, including the requirements for each Bushfire Attack Level (BAL)

**05** **Timber Service Life Design Guide**

Information to give building and construction industry professionals confidence in determining the service life timber in a wide range of applications, from sole plates to suspension bridges

**06** **Timber-framed Construction - sacrificial timber construction joint**

Standard details for common locations where timber sacrificial blocks can be used to form these construction joints in walls and floors for specified Fire Resistance Levels

**54**  
**Technical Guides**  
**Available**  
**FREE**

# Technical Design Guides

Collect the full set of resources for your library  
 Now available for free download

- 1 Timber-framed Construction for Townhouse Buildings Class 1a
- 2 Timber-framed Construction for Multi-residential Buildings Class 2 & 3
- 3 Timber-framed Construction for Commercial Buildings Class 5, 6, 9a & 9b
- 4 Building with timber in bushfire-prone areas
- 5 Timber service life design - design guide for durability
- 6 Timber-framed Construction - sacrificial timber construction joint
- 7 Plywood box beam construction for detached housing
- 8 Stairs, balustrades and handrails Class 1 Buildings - construction
- 9 Timber flooring - design guide for installation
- 10 Timber windows and doors
- 11 Timber-framed systems for external noise
- 12 Impact and assessment of moisture-affected, timber-framed construction
- 13 Finishing timber externally
- 14 Timber in Internal Design
- 15 Fire Design
- 16 Massive Timber Construction Systems: Cross-Laminated Timber (CLT)
- 17 Alternative Solution Fire Compliance, Timber Structures
- 18 Alternative Solution Fire Compliance, Facades
- 19 Alternative Solution Fire Compliance, Internal Linings
- 20 Fire Precautions During Construction of Large Buildings
- 21 Domestic Timber Deck Design
- 22 Thermal Performance in Timber-framed Buildings
- 23 Using Thermal Mass in Timber-framed Buildings
- 24 Thermal Performance for Timber-framed Residential Construction
- 25 Rethinking Construction - Consider Timber
- 26 Rethinking Office Construction - Consider Timber
- 27 Rethinking Apartment Building Construction - Consider Timber
- 28 Rethinking Aged Care Construction - Consider Timber
- 29 Rethinking Industrial Shed Construction - Consider Timber
- 30 Timber Concrete Composite Floors
- 31 Timber Cassette Floors
- 32 EXPAN Long Span Roofs - LVL Portal Frames and Trusses
- 33 EXPAN Quick Connect Moment Connection
- 34 EXPAN Timber Rivet Connection
- 35 EXPAN Floor Diaphragms in Timber Buildings
- 36 EXPAN Engineered Woods and Fabrication Specification
- 37 Mid-rise Timber Buildings (Class 2, 3 and 5 Buildings)
- 37R Mid-rise Timber Buildings, Multi-residential (Class 2 and 3)
- 37C Mid-rise Timber Buildings, Commercial and Education Class 5, 6, 7, 8 and 9b (including Class 4 parts)
- 38 Fire Safety Design of Mid-rise Timber Buildings
- 39 Robustness in Structures
- 40 Building Timber-framed Houses to Resist Wind
- 41 Timber Garden Retaining Walls Up to 1m High
- 42 Building Code of Australia Deemed to Satisfy Solutions for Timber Aged Care Buildings (Class 9c)
- 43 Reimagining Wood-based Office Fitout Systems - Design Criteria and Concepts
- 44 CLT Acoustic Performance
- 45 Code of Practice - Fire Retardant Coatings
- 46 Wood Construction Systems
- 47 Timber Bollards
- 48 Slip Resistance & Pedestrian Surfaces
- 49 Long-span Timber Floor Solutions
- 50 Mid-rise Timber Building Structural Engineering
- 51 Cost Engineering of Mid-rise Timber Buildings



## Technical Design Guides

52



### Timber Connectors

Technical Design Guide issued by Forest and Wood Products Australia

53



### Moisture Management of Mass Timber Construction

Technical Design Guide issued by Forest and Wood Products Australia

54



This guide was  
published in April 2023  
Please check  
woodsolutions.com.au/publications  
to ensure you have the latest edition

### Moisture Management of Timber Frame Construction

Technical Design Guide issued by Forest and Wood Products Australia

# Today's Seminar



## WoodSolutions Seminar



**T3 Project, Wellington Street, Collingwood**  
Arch: JCBA  
Build: Hines & Icon  
Masslam Members  
Supplied by: ASH  
Photo: Maria Hindy

**Vertical Extension 55 Southbank, Melb**  
Arch: Bates Smart  
Eng & photo: Vistek

**Passive House**

**Toolbox**

**Innovations in Engineered Wood Construction**



# CPD & Presentations

## WoodSolutions Seminar



**Innovations in Engineered Wood Construction**

Program – 28<sup>th</sup> June 2023,

**12.30pm Welcome & WoodSolutions Update** - Alastair Woodard, WoodSolutions

**T3 - 36 Wellington St, Collingwood** – Intelligent Real Estate Investments  
- Jo Lees, Construction Manager, Hines

**Architectural Innovation with Engineered Wood Construction**  
- Jimmy Walker, Associate, Jackson Clement Burrows Architects

**Mass Engineered Wood Construction Innovation**  
- Nathan Benbow, Engineering Design Manager, ASH

**Building Communities Above Our Cities**  
- Paul Kremer, Thought leader A/E/C industries

**Afternoon Tea and Networking**

**Hybrid Timber – How Can Less Timber Be More?**  
- Nick Hewson, Chief Design Officer & Head of Product Develop, Viridi Group

**Degree: Passive House Meets Prefab Architecture**  
- Andrew Fotia, Architect, Senior Associate, ARKIt

**Driving Efficiencies with Software Tools and Automated Design**  
- Adam Jones, Director CLT Toolbox

Panel Q&A

**5.00pm Finish**

## FEEDBACK FORM

We would appreciate it if you could take a few moments to complete this form to let us know how we did, and what could be done better in the future.

1. Overall, how did you feel about today's WoodSolutions (WS) seminar?

2. Of the presentations provided which did you find of most interest and value?

- |   |   |
|---|---|
| <input type="checkbox"/> T3 - 36 Wellington St, Collingwood       | <input type="checkbox"/> Hybrid Timber, How Can Less Be More?     |
| <input type="checkbox"/> Architectural Innoxx with Eng Wood Const | <input type="checkbox"/> Passive House Meets Prefab Architecture  |
| <input type="checkbox"/> Mass Eng Wood Const Innovation           | <input type="checkbox"/> Driving Efficiencies with Software Tools |
| <input type="checkbox"/> Building Communities Above Our Cities    |   |

3. How do you think that the WS seminars might be improved to better serve your needs?

Would you prefer?

- More detail  
 Less detail, or  
 Detail level was [OK](#)

Topics would you like to see covered?

## Cover Charge Feedback

5. What are your thoughts on WS setting a cover charge for seminars\*\*?

\*\* Note this modest cover charge has been introduced to help try to stop people registering for an event, and the event then selling out (so others cannot register), but then not showing up on the day.

- \$35 is OK **or**  Cost should be \$ \_\_\_\_\_ **or**  Seminars should be free.

**I would like to be emailed PDF copies of the following Seminar presentations -**

- |   |   |
|---|---|
| <input type="checkbox"/> T3 - 36 Wellington St, Collingwood       | <input type="checkbox"/> Hybrid Timber, How Can Less Be More?     |
| <input type="checkbox"/> Architectural Innoxx with Eng Wood Const | <input type="checkbox"/> Passive House Meets Prefab Architecture  |
| <input type="checkbox"/> Mass Eng Wood Const Innovation           | <input type="checkbox"/> Driving Efficiencies with Software Tools |
| <input type="checkbox"/> Building Communities Above Our Cities    |   |

I would like a CPD Certificate for Attendance at today's Seminar (Informal CPD points)

Name: .....

Company: .....

Email address: .....

please print clearly.

# Today's Seminar Program

## [T3 - 36 Wellington St, Collingwood – Intelligent Real Estate Investments](#)

*Jo Lees, Construction Manager, Hines,*

## [Architectural Innovation with Engineered Wood Construction](#)

*Jimmy Walker, Associate, Jackson Clement Burrows Architects,*

## [Mass Engineered Wood Construction Innovation](#)

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## [Building Communities Above Our Cities](#)

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