

WOODSOLUTIONS TUTORIALS FOR ARCHITECTS



Free in-house CPD presentations for architects

The presentations are provided by [WoodSolutions](http://www.woodsolutions.com.au) – the Australian forest and wood product industry's information channel to design and building professionals – and are conducted by experienced staff of the Timber Development Association in NSW, ACT and South Australia at your workplace or learning group meeting. Formal or informal CPD activity points may be earned by those architects participating.

Topics

- *Inspirational Timber Structures*
- *Mass Timber Construction in Multi-storey Buildings: Cross Laminated Timber (CLT)*
- *Design for Durability & Service Life: Timber in Exterior Applications*
- *Wood Finishes for Exterior Applications*
- *Timber in Interior Design*
- *Top 10 Timber Species*
- *Wood Products: Terminology, Properties & Specification*
- *Fire Safety and Performance of Wood in Multi-Residential and Commercial Buildings*
- *Specifying Timber for Houses in Bushfire-prone Areas*
- *Maximising Green Star Ratings with Wood*
- *Timber and Building Life Cycle Assessments*
- *Engineered Timber Products*

Inspirational Timber Structures

Be inspired by a range of timber-rich building projects including current and past winners of the Australian Timber Design Awards and international design awards. The projects featured can be tailored to a practices' area of interest; for example residential, commercial, public projects and/or interior, exterior, structural applications. This presentation is a snap-shot of the best in timber design.

Mass Timber Construction: Cross Laminated Timber (CLT)

Mass Timber Construction is the use of modern large timber columns and beams as well as large prefabricated timber panels made such as cross-laminated timber (CLT). Suitable for roof, floor, or wall applications CLT provides improved dimensional stability allowing for prefabrication of wide and long floor slabs and wall panels. This presentation provides design and construction details of mass timber elements such as CLT-based construction and using Australian and overseas examples which are delivering shorter construction times, increased onsite safety and lower development costs.

Design for Durability & Service Life: Timber in Exterior Applications

This presentation is based on years of experience, extensive Australian field trials and predictive modelling. It provides guidance on specification and design to maximise the service life of timber in exterior applications include cladding, decking as well as landscape works, bridges. Areas such as appropriate natural durability and preservation hazard levels are discussed in detail.

Wood Finishes for Exterior Applications

Timber finishing is the process of protecting the surface to take advantage of the natural beauty of timber and ensure long service life. This tutorial discusses the material, various finishes and the factors important to satisfactory in-service finish performance and longevity of timber elements.

Timber in Interior Design

Wood and timber products used in the interior of a building are usually selected for their visual characteristics and so it is critical that these characteristics are maintained throughout the design life of the element. This requires correct specification of appearance grades, moisture content, adhesive types and, if needed for areas exposed to a lot of traffic, hardness to resist to dents and scratches.

Deadly Top 10 Timbers

Puzzled about timber? Confused by the characteristics of different species when specifying timber for a job? Confused by the sheer variety of timbers? This presentation covers ten of the most commonly timber species and their attributes. What is their durability? Where can they be used? Where shouldn't they be used? Where do they look great? All these questions are answered and many more.

Wood Products: Terminology, Properties & Specification

Is specifying timber like a foreign language? Participants in this presentation will receive an overview of wood terminology, applications of wood materials, production of wood, characteristics of wood and relationship with properties, grading, sizes, durability/preservation, specification and handling as well as an overview of engineered wood products such as laminated veneer lumber (LVL).

Fire Safety and Performance of Wood in Multi-Res. & Commercial Buildings

This presentation demonstrates how the fire performance requirements in the National Construction Code (NCC) for townhouses, apartments, aged care, offices, shops and factories can be met with timber-framed construction. In this context, the presentation provides verified construction details that utilise the NCC's deemed-to-satisfy provisions as well as guidance on Alternative Solutions.

Using Wood in Bushfire Prone Areas

Participants will receive an understanding of how and which wood products can be used in the various bushfire prone areas hazard levels and building applications as per the Australian Standard AS3959. For NSW the presentation brings together the requirements of the Standard and NSW Rural Fire Service Planning for Bushfire Protection.

Maximising Green Star Ratings with Wood

The tutorial focuses on the different methods of gaining Green Star credits using timber and wood products including sustainable materials, indoor environment quality and innovation credits. Guidance is given on the best ways of specifying and obtaining appropriate documentation.

Timber and Building Life Cycle Assessments

Life cycle assessment (LCA) is becoming the international standard for evaluating the sustainability of materials and assemblies and improving decision-making. This presentation looks at how wood construction contributes to sustainable building over the whole of the actual buildings LCA examples. Timber Environmental Product Declarations (EPDs) are also covered.

Engineered Timber Products

This presentation covers the properties of timber products laminated veneer lumber (LVL), I-beams, CLT and glulam; an overview of the design possibilities of each; durability and preservative treatment; connections; their status in the National Construction Code; examples of good and not so good design.

Seminars are designed to be delivered over 45 - 60 minutes (including questions) though shorter or longer presentations can be made depending on your needs and time availability. Multiple presentations can also be booked. If you would like to combine one of the presentations above or you have another topic in mind, please get in touch. We are always keen to hear about innovative ideas or new topics that relate to wood and wood products. Share your ideas with us!

For more information on WoodSolutions visit www.woodsolution.com.au

To book a presentation

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