Learning Objectives

You’ll be able to:

**Comply** with building codes and design specifications for engineered wood construction.

**Identify** design values and equations for structural engineered lumber.

**Utilize** engineered wood products on your projects, including glued-laminated timber, timber poles and piles, and pre-fabricated wood I-joists.

**Understand** how to properly use connectors and fasteners with engineered wood products.

**Discuss** fire design and finishing of exposed members.

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Agenda

**Presented by Theodore O’Donnell, P.E., S.E.**

**Engineered Lumber Products and Design Guidance**
- Examining types of engineered lumber products
  - Structural and non-structural
  - National Design Specification for Wood Construction
  - ASCE Standard for Load and Resistance Factor Design
  - for Engineered Wood Construction

**Design Values and Equations for Structural Engineered Lumber**
- Reference design values and adjustments
  - Bending members
  - Compression members
  - Solid columns
  - Tension members
  - Combined loads
  - Bearing capacity

**Structural Glued-Laminated Timber**
- Types of members
- Applications and design values
- Adjustments and special considerations

**Timber Poles and Piles**
- Types of members
- Applications and design values
- Adjustments and special considerations

**Pre-Fabricated Wood I-Joists**
- Types of members
- Applications and design values
- Adjustments and special considerations

**Structural Composite Lumber and Wood Structural Panels**
- Types of products
- Applications and design values
- Adjustments and special considerations

**Connectors and Fasteners**
- Mechanical connections
- Dowel fasteners
- Split ring and shear plate connectors
- Timber rivets

**Fire Design and Finishing of Exposed Members**
Theodore O’Donnell, P.E., S.E., O’Donnell Structural Consulting, LLC
O’Donnell Structural Consulting, LLC, was formed in 2011 by Theodore O’Donnell to provide professional engineering services with special emphasis on design of wood structures. Mr. O’Donnell graduated in 1988 from Youngstown State University with a BSCE degree with a structural concentration. Upon graduation he went to work for Inter-Lock Steel doing wood design and computer programming. In 1991 Inter-Lock was bought by MiTek Industries where he continued his truss design work. In 1995 he relocated to the Shenandoah Valley in Virginia to become a field engineer with MiTek. In 1999 he took over as chief engineer at MiTek’s Ohio office and then moved back to Virginia in 2001 to become vice president of engineering with Blue Ridge Truss & Supply.

Here’s what past attendees had to say about the program and presenter Theodore O’Donnell:

“Good course, good material, good presenter.” — Construction Equipment Manufacturer

“Like the practical discussion/comments from instructor.” — Construction/Engineering

“Great presenter, very knowledgeable, easy to follow.” — Engineer

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This seminar is open to the public and offers 7.0 PDHs to professional engineers and 7.0 HSW (Public Protection) continuing education hours to architects in all states, except Florida. Architects, educators and courses are not subject to preapproval in West Virginia.

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