Agenda

Presented by Vincent F. Fratinardo, P.E., S.E., RRC

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

Building codes  Design criteria

Design Values for Structural Engineered lumber
- Reference design values and adjustments
- Bending members  Compression members
- Solid columns  Tension members
- Combined loads  Bearing capacity
- Flitch beams

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

Structural Design
- Software
- Roof framing
- Floor framing
- Beams and joists

Learning Objectives

You’ll be able to:

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

Identify design values for bending members, compression members and columns.

Utilize engineered wood products, 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 roof and floor framing.
Vincent F. Fratindardo, P.E., S.E., RRC Glen Elyn, IL
Mr. Fratindardo is a civil/structural engineer and roof consultant. His 20+ years of experience includes civil and structural engineering analysis, design, construction administration, field investigation, and project management, and 15 years of experience specific to forensic engineering and the investigation and analysis of building damage and failures. Mr. Fratindardo has designed numerous new buildings, building additions, building renovations, and mechanical platforms and supports. He has designed and analyzed roof, wall and floor framing systems utilizing steel, concrete, masonry, and wood construction. Mr. Fratindardo has vast expertise in commercial, industrial, agricultural, municipal, educational and residential building damage investigations, including on-site investigations after 25 different tornado events, and Hurricanes Irene, Sandy, Matthew, Harvey, Irma, Maria and Florence. He has legal experience in depositions, arbitration hearings and trials. He has prepared and performed numerous continuing education presentations, including on an array of topics in forensic engineering, structural engineering and building codes for HalfMoon Education Inc., in multiple states since 2014. Mr. Fratindardo graduated from Michigan State University with a bachelor of science degree in Civil Engineering, and he also holds a master of engineering degree in Civil Engineering from Texas A&M University. He is a registered professional engineer in multiple states and a licensed structural engineer in Illinois.

Here’s what past attendees had to say about the program and presenter Vincent Fratindardo:

“Did a great job of moving the class along and keeping me involved.” — Engineer

“Very good presenter w/interesting & applicable information. The day went quick!” —

“Did a great job of moving the class along & keeping me involved.” —

“Great presentation, excellent slides.” — Architect/Structural Engineer

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HalfMoon Education Inc., in multiple states since 2014. Mr. Fratinardo graduated from Michigan State University with a bachelor of science degree in Civil Engineering, and he also holds a master of engineering degree in Civil Engineering from Texas A&M University. He is a registered professional engineer in multiple states and a licensed structural engineer in Illinois.

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects in all states. Educators and courses are not subject to preapproval in Ohio.

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This course offers a non-credit continuing education opportunity to contractors. It has not been approved by any state contractor licensing entity for licensing maintenance.

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Attendance will be monitored and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

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