

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

Engineered Lumber Design and Construction
Springfield, IL - Wednesday, August 7, 2019

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PO Box 278
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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.

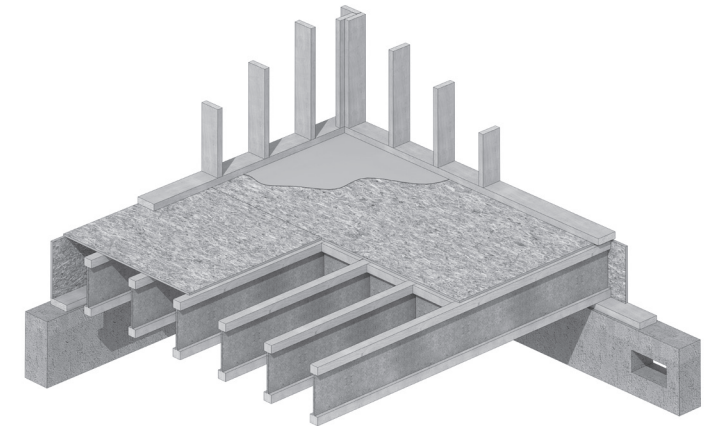
Discuss roof and floor framing.



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Engineered Lumber Design and Construction

Springfield, IL - Wednesday, August 7, 2019



Examine structural and non-structural engineered lumber products

Understand design values for structural engineered lumber

Learn about roof and floor framing

Learn to work with glued-laminated timber, timber poles and piles, and pre-fabricated wood I-joists

Explore structural composite lumber

Discuss connectors and fasteners

Continuing Education Credits

Professional Engineers & Structural Engineers

7.0 PDHs

Architects

7.0 HSW Contact Hours

7.0 AIA HSW Learning Units

Contractors

Non-Credit Continuing Ed.



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Faculty

Vincent Fratinardo, P.E., S.E., RRC *Glen Ellyn, IL*

Mr. Fratinardo is a civil/structural engineer and roof consultant. His over 20 years of experience includes civil and structural engineering analysis, design, construction administration, field investigation, and project management, and 13 years of experience specific to forensic engineering and the investigation and analysis of building damage and failures. Mr. Fratinardo 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. Fratinardo 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. 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.

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

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

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

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

Seminar Information

Crowne Plaza Springfield 3000 South Dirksen Parkway Springfield, IL 62703 (217) 529-7777	Registration 8:00 - 8:30 am Morning Session 8:30 am - 12:00 pm	Lunch (On your own) 12:00 - 1:00 pm Afternoon Session 1:00 - 5:00 pm
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Tuition
\$289 for individual registration
\$269 for three or more registrations.

Each registration includes a complimentary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Additional Learning

Webinar Series

International Existing Building Codes

- **Working with the International Existing Building Code**
Thurs., June 20, 2019, 11:00 AM - 12:30 PM CDT
- **Chapters 3, 4 & 6**
Thurs., June 20, 2019, 1:00 - 3:00 PM CDT
- **Chapters 7-10: Alterations and Occupancy**
Fri., June 21, 2019, 11:00 AM - 1:00 PM CDT
- **Chapters 11, 12 and 14: Additions and Historic Buildings**
Fri., June 21, 2019, 1:30 - 3:00 PM CDT

Retaining Structures

- **Earth Pressures and Surcharges**
Wed., June 26, 2019, 11:00 AM - 12:30 PM CDT
- **Cantilever & Apparent Earth Pressures**
Wednesday, June 26, 2019, 1:00 - 2:30 PM CDT
- **Apparent Earth Pressures**
Thurs., June 27, 2019, 11:00 AM - 12:30 PM CDT

Industrial Stormwater

- **Understanding the Federal Industrial Stormwater Program**
Thurs., June 27, 2019, 11:00 AM - 12:30 PM CDT
- **Examining Stormwater Pollutants and the Development of Total Maximum Daily Loads (TMDLs)**
Thurs., June 27, 2019, 1:00 - 2:00 PM CDT
- **Creating Stormwater Pollution Prevention Plans (SWPPPs)**
Fri., June 28, 2019, 11:00 AM - 12:00 PM CDT
- **Implementing Best Management Practices (BMPs), Sampling and Reporting**
Fri., June 28, 2019, 12:30 - 2:00 PM CDT

For more information and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 PDHs to professional engineers and structural engineers and 7.0 HSW contact/CE hours to architects in all states. Educators and courses are not subject to preapproval in Illinois.

The American Institute of Architects has approved this event for 7.0 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects.

This seminar also offers a non-credit continuing education opportunity to construction contractors. It has not been submitted to any state contractor licensing board for continuing education approval.

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.

Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$269. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

Engineered Lumber Design and Construction
Springfield, IL - Wednesday, August 7, 2019

How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____
Phone: 715-835-5900		Company/Firm: _____
Fax: 715-835-6066		Address: _____
Code:		City: _____ State: _____ Zip _____
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Occupation: _____
Complete the entire form. Attach duplicates if necessary.		Email: _____
		Phone: _____
		Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.
		() I need special accommodations. Please contact me.

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

() **I am not attending.** Please send me the self-study package:

☐ Downloadable MP3 Audio/PDF Manual for **\$269.00**.

☐ CD/Manual Package for **\$289.00**.

(Please allow four weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

Credit Card: *Mastercard, Visa, American Express, or Discover*

Credit Card Number: _____

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