

Agenda

Presented by Eugene Brislin

AISI Cold-Formed Design

- Overview of cold-formed steel uses in commercial buildings
- Cold-Formed steel design versus structural steel design
- Cold-Formed steel design versus wood design
- Materials and section properties

Beam Design

- Bending
- Shear
- Web crippling
- Bracing requirements

Column Design

- Compression
- Compression buckling
- Torsional buckling
- Local buckling
- Bracing of compression members
- Compression and bending

Small Commercial Framing Schemes with Cold-Formed Steel

- Roofs
- Floors
- Walls
- Lateral systems

Design Example

- Vertical loads
- Joists/Trusses
- Girders
- Bearing walls
- Columns
- Lateral loads
- Exterior walls
- Shear walls
- Floor diaphragms

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Cold-Formed Steel Frame Design for Small Commercial Buildings

Live, Interactive Webinar - Wednesday, June 22, 2022

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PO Box 278
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Learning Objectives

You'll be able to:

Explore appropriate uses for cold-formed steel framing instead of wood framing and structural steel design.

Design cold-formed steel beams and examine bracing requirements.

Design cold-formed steel columns, and discuss compression and torsional buckling.

Examine framing schemes for roofs, floors, walls and lateral systems.

Discuss a design example illustrating load handling and design of girders, joists, bearing walls, columns and shear walls.



HalfMoon Education Live Webinars

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Compare cold-formed steel design to structural steel and wood design

Examine beam and column design

Learn about compression and torsional buckling

Explore small commercial framing schemes with cold-formed steel

Review design examples of vertical and lateral loads one cold-formed steel frames

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7.0 PDHs

Architects
7.0 HSW CE Hours
7.0 LU | HSW

International Code Council
.7 CEUs (Building)

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Faculty



Eugene Brislin *Structural Engineer, Summerville, SC*
Mr. Brislin has been a professional engineer for more than 20 years and has designed many structures and performed many different types of analysis in that time. He has worked for a steel fabricator, an architectural/engineering firm and a seismic consultant and has been in private practice over 13 years. Mr. Brislin earned his BSCE degree from The Citadel in Charleston, South Carolina, and his MSCE degree from the University of South Carolina. He has completed all his course work for his PhD degree, but has not completed his dissertation. His graduate study work has been in mathematical elasticity. Mr. Brislin has worked on a wide variety of projects from arenas such as Gund Arena in Cleveland, Ohio, and the Edward Jones Arena in St. Louis, Missouri, to renovation and seismic retrofit of the South Carolina State House and the design of the Columbia South Carolina Museum of Art. He has done stress analysis on weapons systems for the Department of Defense and has consulted on cellular telephone concealment projects. Mr. Brislin's company routinely performs modal analysis of structures to provide more accurate seismic loads and to reduce the cost of seismic requirements through more advanced analysis techniques. The company is knowledgeable concerning structural dynamics and can perform a full dynamic analysis for complicated structures, and ductility requirements in concrete and masonry as well as welded steel moment connection requirements on toughness of steel.

Webinar Information

Log into Webinar 8:00 - 8:30 am CDT	Break 12:45 - 1:15pm CDT
Morning Session 8:30 am - 12:45 pm CDT	Afternoon Session 1:15 - 4:30 pm CDT

Tuition
\$319 for individual registration
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Additional Learning

Residential and Small Commercial Timber Frame Design and Construction
- Thurs, May 26, 2022 | 8:30 am - 4:30 pm CDT

2021 International Residential Code: Residential Building Planning
- Wed, June 1, 2022 | 11:00 am - 3:30 pm CDT

National Electrical Code 2020: Grounding and Bonding
- Tues, June 7, 2022 | 8:30 am - 5:00 pm CDT

Deep Foundations and Excavations
- Wed, June 8, 2022 | 8:30 am - 4:30 pm CDT

Complying with the Residential Provisions of the IECC 2021
- Thurs, June 9, 2022 | 8:30 am - 4:30 pm CDT

Complying with Fire Protection and Building Codes
- Mon, June 13, 2022 | 8:30 am - 4:30 pm CDT

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Added Value:
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Registration

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