

Agenda

Presented by Gregory A. Robinson P.E.

Lateral Loads, ASCE 7-10 and 16

- | | |
|---|-----------------------|
| Wind loads | Seismic loads |
| Miscellaneous lateral loads | |
| Hydrostatic/hydrodynamic pressure and flood loads | |
| Coastal and high-speed wind regions | High seismicity areas |

Types of Wall Bracing

- | | |
|---|--------------------------|
| What types are typically available? | Shearwalls |
| X-bracing | Cantilever columns/posts |
| Roof diaphragms, diaphragm chords and drag struts | |
| Commercial and residential building codes and standards | |
| • International Residential Code requirements and options | |
| - Prescriptive methods | |
| - Engineered design | |
| • APA wall bracing calculator | |
| • Engineered design | |
| • Shearwall and diaphragm tables | |
| - Sheathing options and orientation | |
| - Blocked and unblocked | |
| Anchorage to framing and foundations | |

Braced Wall Methods and Details

- Intermittent bracing methods from IRC
- Continuous sheathing methods
- Engineered design methods
 - Code language in Section R301
 - Referring to the IRC, International Commercial Code
- Alternate materials and systems
 - Foam-sheathed walls
 - Hempcrete, log structures and other oddities
- Advantages and drawbacks of various methods
- Manufactured connectors

Braced Wall Methods and Details, Examples

- Location and spacing, who decides? SIMPLICITY
- Connecting the components: roof diaphragm, roof trusses and rafters, walls, anchorage
- The load path

Case Studies

- Simple residential structure
- Roof diaphragm connection to wall structure
- Wall openings, design aids

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Residential Wall Bracing and Alternatives

Live, Interactive Webinar - Wednesday, June 5, 2024

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Learning Objectives

You'll be able to:

Identify lateral loads including wind loads and seismic loads.

Explore available types of residential wall bracing.

Comply with International Residential Code requirements.

Explore intermittent bracing methods, continuous sheathing methods and engineered design methods.

Discuss load paths and connections.

Review wall bracing case studies.



HalfMoon Education Inc., Your LIVE Education Leader Presents Residential Wall Bracing and Alternatives

Live, Interactive Webinar - Wednesday, June 5, 2024



Identify lateral loads using ASCE 7-10 and 16

Explore types of wall bracing

Discuss braced wall methods and details

Discuss bracing requirements for alternate materials and wall systems

Evaluate residential case studies

Continuing Education Credits

Professional Engineers

6.0 PDHs

International Code Council

.6 CEUs (Building)

Architects

6.0 HSW CE Hours

6.0 AIA LU | HSW

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Webinar Information

Online - Wednesday, June 5, 2024

Log into Webinar: 8:30 - 9:00 am CDT

First Session: 9:00 - 11:00 am CDT
Break: 11:00 - 11:30 am CDT

Second Session: 11:30 am - 1:30 pm CDT
Break: 1:30 - 2:00 pm CDT

Third Session: 2:00 - 4:00 pm CDT

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Faculty

Gregory A. Robinson P.E. *Consulting Engineer*
Mr. Robinson is a graduate of North Carolina State University from which he received his bachelor's degree in Civil Engineering and his master of Civil Engineering degree. He has over 30 years of experience in the structural engineering field and has been in private practice for over 24 years. Prior to establishing his own practice, Mr. Robinson worked for Bechtel Petroleum in San Francisco and for various structural engineering firms in the Raleigh area. Mr. Robinson is a licensed professional engineer in 16 states. He has taught structural analysis classes at the community college level and has conducted numerous seminars over the last 20 years. He also served on a sub-committee for the North Carolina Building Code Council tasked with reviewing the provisions of the North Carolina Residential Code for interior moisture control and water intrusion. Mr. Robinson's practice includes design, analysis and evaluation of steel, concrete, masonry and timber structures. He has investigated over 1,500 wood frame buildings for damage, and he has developed plans of repair for structures and finishes.

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers and 6.0 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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The American Institute of Architects Continuing Education System has approved this course for 6.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .6 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

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Engineering Projects from Start to Finish
- Monday, May 6, 2024 | 8:30 am - 4:30 pm CDT

Construction Cost Estimating
- Wednesday, May 8, 2024 | 9:00 am - 4:30 pm CDT

Handling Ethical Issues in Construction Contracting
- Wednesday, May 8, 2024 | 9:00 - 10:00 am CDT

Natural Ventilation Principles and Techniques
- Thursday, May 9, 2024 | 9:00 am - 4:00 pm CDT

2021 International Building Code Essentials
- Friday, May 10, 2024 | 8:30 am - 4:30 pm CDT

Insulations in Light Construction for Northern Climates
- Friday, May 10, 2024 | 1:00 - 4:00 pm CDT

Building Electrical System Design Based on NEC 2023
- Monday, May 13, 2024 | 12:00 - 2:00 pm CDT

Temporary Construction Site Erosion and Sediment Control BMPs
- Monday, May 13, 2024 | 9:00 am - 4:00 pm CDT

Adding Basements to Existing Buildings
- Wednesday, May 15, 2024 | 9:00 am - 4:00 pm CDT

Adding EV Charging Stations to Homes or Businesses
- Wednesday, May 15, 2024 | 1:00 - 3:00 pm CDT

Managing Engineering Liability and Risk
- Wednesday, May 15, 2024 | 8:30 am - 4:30 pm CDT

Building Power System Grounding and Bonding Based on NEC 2023
- Monday, May 20, 2024 | 12:00 - 2:00 pm CDT

Construction Contract Workshop
- Monday, May 20, 2024 | 8:30 am - 5:00 pm CDT

Determining Means of Egress Compliance Using the 2021 IBC
- Monday, May 20, 2024 | 8:30 am - 4:00 pm CDT

Managing Solar Gain
- Tuesday, May 21, 2024 | 9:00 am - 12:20 pm CDT

Developments in Fenestration
- Wednesday, May 22, 2024 | 9:00 am - 12:20 pm CDT

Understanding Subsidence Caused by Groundwater Withdrawal
- Wednesday, May 29, 2024 | 12:00 - 2:00 pm CDT

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