



AIA Continuing Education – Masonry Courses

York Building Products offers a variety of educational opportunities for designers. There is no program charge, and with your input on menu selection, York Building Products will provide the meal. To schedule a presentation, please contact:
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AN OVERVIEW OF CONCRETE MASONRY CONSTRUCTION: YBP-OCMC (1 hr. LU, HSW)

- The different types of manufactured concrete products and the process by which they are produced.
- Masonry-specific terminology and definitions; including code-specific terms as well as regional nomenclature.
- The standards covering manufactured concrete products and the relevant physical requirements stipulated within these standards.
- Products and materials used in the construction of concrete masonry systems, including reinforcing steel, grout, and mortar; and the relevant code provisions covering these materials.

ARCHITECTURAL STONE VENEER: TRANSFORMING SPACES THROUGH COLOR & TEXTURE: ASV0001 (1 hr., HSW)

- Describe key elements of a high quality architectural stone veneer and discuss the economic advantages of its use in design.
- Identify current installation guidelines and review additional mortar considerations that can lead to aesthetically successful projects.
- Evaluate building safety codes, height restrictions, and available resources for unique installation methods.
- Identify the importance of transitional elements and finishing details of stone veneer applications.

MASONRY DETAILING: AESTHETICS WITH PERFORMANCE: YBP-MD-AwP (1 hr. LU, HSW)

- Review performance characteristics of concrete masonry wall systems.
- Explore unit design options for form & function available with CM materials.
- Learn how mortar options and bond patterns can enhance the performance & aesthetics of your design.
- Review how these design elements have been integrated into completed buildings.

MASONRY DETAILING: CONTROLLING CRACKS: YBP-MD-CC (1 hr. LU, HSW)

- Causes of cracking in concrete masonry.
- How to minimize cracking potential.
- How to control cracking through the use of reinforcement and control joints.
- How to maintain the fire resistance rating of a concrete masonry wall at a control joint.

MASONRY DETAILING: ENHANCING THERMAL PERFORMANCE: YBP-MD-ETP (1 hr. LU, HSW)

- The role of thermal mass in building design, increased energy efficiency, and enhanced occupant comfort.
- The role R-values play in the design of building envelopes and code compliance.
- Understanding and applying the design options for compliance with the International Energy Conservation Code (IECC).
- Methods and detailing for the control of air infiltration and exfiltration for increased energy efficiency and occupant comfort.

MASONRY DETAILING: FIRE SAFE CONSTRUCTION: YBP-MD-FSC (1 hr. LU, HSW)

- Understand fire statistics and trends.
- Apply the concepts of balanced design for fire safety.
- Distinguish the methods of evaluating fire ratings for concrete masonry.
- Utilize the code approved calculated method for determining fire resistance rating of concrete masonry assemblies.

MASONRY DETAILING: MANAGING WATER: YBP-MD-MW (1 hr. LU, HSW)

- Identify key material characteristics desirable for moisture-resistant assemblies.
- Recognize the basic types of CM wall construction, and the moisture-related qualities of each.
- The basics of effective flashing/weep installations.
- How to effectively incorporate sealants and water repellents in concrete masonry assemblies.

MASONRY DETAILING: MAXIMIZING ACOUSTICS: YBP-MD-MA (1 hr. LU, HSW)

- Common sources of internally- and externally-generated sounds and code minimum requirements for mitigating unwanted noise.
- Standardized means of calculating the sound transmission class (STC) and the outside-inside transmission classification (OITC) of concrete masonry assemblies.
- Reflected versus absorbed sound and the role of the noise reduction coefficient (NRC) in concrete masonry design.
- Appropriate layout and detailing options for maximizing sound reduction with buildings for optimum user comfort.

MASONRY DETAILING: SELECTING CEMENTS: YBP-MD-SC (1 hr. LU, HSW)

- Understand the differences between Cement, Concrete, Masonry Cement and Mortar.
- Become familiar with the types and components of mortar.
- Review details of ASTM C270 (Standard Specification for Mortar for Unit Masonry) and ASTM C780 (Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry).
- Role of masonry mortars; aesthetic impact of mortar color.

THROUGH-WALL FLASHING COMPATIBILITY SUSTAINABILITY AND PERFORMANCE: YMI-18 (1 hr. GBCI, HSW)

- Composition of each type of flashing and their effects on sustainability and life cycle costs.
- Have a better understanding of how to specify through-wall flashings and avoid compatibility issues.
- Understand the performance characteristics, different types of commonly used cavity wall materials and how to create a resilient flashing system.
- Recognize necessary accessories and challenges of installation.

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