

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 MANUFACTURING AND CONSTRUCTION: (1 hr. LU, HSW)

This presentation covers a basic overview of concrete masonry systems and materials; including how concrete masonry units are manufactured, masonry terminology, masonry mortars, masonry grouts, and construction practices and requirements.

BALANCED DESIGN: FIRE SAFETY WITH CONCRETE MASONRY PRODUCTS: (1 hr. LU, HSW)

This presentation reviews related fire statistics and code trends and then defines and applies the concepts of balanced design. We will distinguish the code approved methods of evaluating fire ratings for concrete masonry and utilize the related calculation method for determining fire resistance rating of concrete masonry assemblies.

BIM - MODEL DRIVEN CONSTRUCTION AND DESIGN FOR MASONRY: (1 hr. LU)

This unique presentation closely examines masonry materials and their relationship to other trades through detailed BIM models; the importance of masonry layout and its impact on other construction processes; the use of laser scans and clash detection for improved masonry solutions; and important new support for masonry design and rendering in Revit.

CAPTIVATING ARCHITECTURAL AESTHETICS WITH LASTING PERFORMANCE: (1 hr. LU)

This presentation identifies the performance characteristics of concrete masonry wall systems and compares available unit design options for form and function and how mortar tooling and bond patterns enhance the performance and the aesthetics of design, and concludes with examples of how these design elements have been incorporated into completed, award winning projects.

CRACK CONTROL IN CONCRETE MASONRY WALLS: (1 hr. LU, HSW)

This important presentation compares the primary causes of cracking in concrete masonry and the means to minimize the potential for cracking. It addresses the proper application of empirical crack control measures and the use of control joints and horizontal reinforcement to minimize cracking. It concludes with a review of applicable details, including banding (mixing courses of clay and concrete masonry).

**INCREASING THERMAL PERFORMANCE AND ENERGY EFFICIENCY OF CONCRETE MASONRY:
(1 hr. LU, HSW)**

This trending presentation explains the role of thermal mass in building design, building energy efficiency, and occupant comfort and discusses the role R-values and U-factors play in the design of energy-efficient building envelopes and code compliance. It examines the design options in concrete masonry construction for compliance with the International Energy Conservation Code (IECC), and evaluates various strategies to maximize energy performance, including placement and types of insulation, with concrete masonry systems.

REDUCING WATER PENETRATION FOR GREATER SUSTAINABILITY AND PERFORMANCE: (1 hr. LU, HSW)

This presentation provides a general overview of strategies to provide moisture-resistant concrete masonry assemblies, including material requirements and quality design and construction practices. A brief overview of mold and mold abatement is also included.

SELECTING MASONRY CEMENTS: (1 hr. LU, HSW)

This mortar presentation reviews the differences between Cement, Concrete, Masonry Cement and Mortar. In addition to becoming familiar with the types and components of mortar, we review the 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", and their respective use and application in the specifications and during construction. It concludes with the aesthetic impact of mortar color and tooling and proper clean down procedures.

SOUND ABATEMENT THROUGH ACOUSTICAL MASONRY SYSTEMS: (1 hr. LU, HSW)

This presentation introduces the concepts of mitigating unwanted noise using concrete masonry assemblies and systems. Topics covered include a basic review of sound and noise, what requirements are mandated by building codes to address sound control, how to determine the sound transmission class and inside-outside transmission classification of building assemblies, noise reduction coefficients, and proper methods of detailing concrete masonry systems to maximize its effectiveness as a sound barrier.

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