



AIA/CES Certified

# Box Lunch Presentations

This brochure outlines all of the courses that are offered by YKK AP America that will count towards the AIA Continuing Education Series accreditation.

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## Proper Application of Storefronts, Window Walls and Curtain Walls

<b>Regular</b>	<b>Number:</b> OA301R	<b>Length:</b> 1.0 Hour	<b>LU &amp; HSW:</b> Yes
<b>Extended</b>	<b>Number:</b> OA301EX	<b>Length:</b> 1.5 Hours	<b>LU &amp; HSW:</b> Yes

While storefronts, window walls and curtain walls are all fenestration systems, they do have distinctive differences that dictate where they should be installed on a building. Discover performance attributes of each system and learn basic assembly and installation procedures. Also, explore the latest design concepts to meet more stringent energy codes.

## Ensuring Compliance with Today's Energy Codes and Green Standards

<b>Number:</b> ENERCOM	<b>Length:</b> 1.0 Hour	<b>LU &amp; HSW:</b> Yes
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The effort to improve the energy efficiency of buildings is primarily driven by energy codes and green standards. This course covers the latest in the ICC codes and ASHRAE standards. Through group discussion, the class will learn how to select vertical systems that meet these new requirements and whole building energy goals. It also reviews both frame and glazing performance and explains compliance methods for the commercial market such as AAMA 507 and NFRC Component Modeling Approach (CMA).

## Fenestration and Glazing Considerations for School Safety

<b>Number:</b> School Safety	<b>Length:</b> 1.0 Hour	<b>LU &amp; HSW:</b> Yes
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This course explores design strategies for new schools to make the most effective use of glazing for daylighting, natural surveillance, safety and security by incorporating Crime Prevention Through Environmental Design (CPTED) guidelines. The importance of training faculty, students and staff will be stressed. Participants will learn how to select the optimal glazing for fenestrations locations throughout the school, and how to select locks and access controls from proven lockdown technologies.

## Hurricane Impact Resistance with Aluminum Glazing Systems

<b>Number:</b> YKK 100 HU	<b>Length:</b> 1.0 Hour	<b>LU &amp; HSW:</b> Yes
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This course translates the destructive power of a hurricane into specific failure modes and then outlines action taken over the last 15 years to eliminate the sources of failure. The result is more cost effective, hurricane resistant commercial buildings. Performance attributes of various types of commercial glazing systems are reviewed.

## Windows for Schools

<b>Number:</b> YKK 100 WFS R1	<b>Length:</b> 1.0 Hour	<b>LU &amp; HSW:</b> Yes
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School buildings will hold up much better if the correct products are selected. Selecting the best windows for a new or remodeled school requires a careful balance of aesthetics with a wide range of performance characteristics. Matching structural integrity to the location is essential and incorporating state of the art thermal advancements optimizes comfort and cost.

### Curtain Wall Design

**Number:** YKK 100 CW R1

**Length:** 1.0 Hour

**LU & HSW:** Yes

Curtain Walls provide some of the most dramatic design details of a building. This course explains strengths and weaknesses of various types of curtain walls. Attendees will explore design pressure calculation, installation and glazing processes. A recent trend toward more fabrication and assemble in controlled environments will be analyzed. Latest energy codes will also be reviewed.

### Blast Mitigation - How to Turn a "No" into a "Yes"

**Number:** YKK Blast

**Length:** 1.0 Hour

**LU & HSW:** Yes

Blast Mitigation design strives to reduce injuries from flying glass and debris and also to prevent structural collapse of the building. Changes to the Department of Defense standard in late 2018 created a simplified set of prescriptive requirements for buildings inside an installation perimeter. While this simplifies a portion of the blast market, there are still unique situations where the system must be configured for the specific project.

### Monumental Window Applications

**Number:** YKK 100 MWA

**Length:** 1.0 Hour

**LU & HSW:** Yes

Selecting the best windows and balcony doors for a new or remodeled commercial building requires aligning desired building aesthetics with a wide range of performance characteristics. Matching structural integrity to the location is essential. Incorporating thermal advancements optimizes comfort and cost. Commercial buildings experience abuse and will hold up better with the correct products.

### Accessibility Standards for Fenestration

**Number:** YKK 100 ACC

**Length:** 1.0 Hour

**LU & HSW:** Yes

The fundamental philosophy of the International Building Code now is that everything is required to be accessible; only exceptions will be called out. Yet it can be confusing to distinguish between code requirements and requirements of the Americans with Disabilities Act (ADA) and the Fair Housing Act (FHA). This course will reconcile the three sets of requirements – IBC, ADA and FHA, as related to commercial fenestration.

### 6th Edition 2017 Florida Building Code with Components and Cladding

**Regular**

**Number:** YKK 2017 FBC

**Length:** 1.0 Hour

**LU & HSW:** Yes

**Advanced**

**Number:** 2017 FBC ADV

**Length:** 2.0 Hours

**LU & HSW:** Yes

Jobs permitted after 2017 must comply with the new code. The focus of this course is to understand requirements and changes affecting vertical wall components and cladding. Most of the content is from Chapter 4 and Chapter 16 along with the Florida Energy Conservation Code. This course will help avoid pitfalls and make a smooth transition.

### Organic Finish or Anodized? Making the Right Choice

**Number:** YKK 100 FIN

**Length:** 1.0 Hour

**LU & HSW:** Yes

This course explains the types of Architectural Aluminum Finishes, it reviews the AAMA standards and evaluates the environmental impact pertaining to them. The course also differentiates their performance and explains their proper application and use.

### Fostering Transparency with Environmental Product Declarations

**Number:** YKK EPD R1

**Length:** 1.0 Hour

**LU & HSW:** Yes

Learn the fundamentals of transparency in the construction industry and how LEED® v4 is utilizing EDP's to build comparable metrics for measuring a products environmental impact. Upon taking this course you will be able to distinguish the importance of LCAs and EPD's in the product selection process. We will examine how EPD's fit into LEED® v4 and compare an industry-wide (generic) EPD with product specific Type III EPD.

### A Growing Unitized Movement

**Number:** YKK Unitize

**Length:** 1.0 Hour

**LU & HSW:** Yes

In today's construction climate, increasingly tight schedules and rapid building close-ins are highly critical to success. The type of system and method of installation – stick built versus unitized – can have a large impact on the overall timeline. Unitized construction is not new and it does not fit every project, but it is a growing consideration given the importance of quality, time and ongoing labor challenges. This course will help recognize the advantages and disadvantages of stick built, unitized and hybrid systems.

### Structural Engineering with Components and Cladding

**Number:** YKK S ENG R1

**Length:** 1.0 Hour

**LU & HSW:** Yes

This is an introduction to structural engineering for components and cladding. ASCE 7 is the recognized standard for determining "Minimum Design Loads for Buildings and Other Structures" in the United States. This course defines and explores the building block information, including mullion loading, required to determine design pressures. Past and current versions of ASCE 7 are compared and explained.

### Southern Exposure - Energy Practices in the Southeast

**Number:** YKK SE Energy

**Length:** 1.0 Hour

**LU & HSW:** Yes

This course will explore how to select fenestration envelope systems that comply with current codes and optimize performance in the Southeast with best practices in shading and day lighting will be explored. Integration of high thermal performance design features into hurricane impact glazing will also be reviewed. Attendees will gain a strong understanding of AAMA 507, NFRC standards and the CMA programs as they relate to thermal performance of fenestration systems.