



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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Tornado Loads and the Building Envelope

Number: YKK ASCE 7-22

Length: 1.0 Hour

LU & HSW: Yes

ASCE 7-2022 has a new chapter dealing with Tornado Loads, which is referenced in the 2024 IBC. Small tornadoes don't get widespread attention, but cause more property damage and deaths than EF4 and EF5 tornadoes combined. The new Chapter 32 addresses protection of the building envelope during EF0 to EF5 tornadoes. The new requirements affect Risk Category III and IV buildings in over 20 states in the central US. This course explains how to use the updated ASCE Hazards Tool to determine whether a building or campus must be designed for tornado loads and addresses ways to comply if it does.

Storefront, Window Wall & Curtain Wall Applications + Hands-on Training*

Number: YKK SFWWCW

Length: 3.0 Hours

LU & HSW: Yes

While storefront, window wall and curtain wall are all fenestration systems, they do have distinctive differences that dictate where each system works best. Discover performance attributes of each system and learn assembly and installation procedures. One contact hour will be devoted to comparing structural, water and thermal performance for the various configurations of these systems. Two contact hours will be devoted to installation instructions and hands-on building of a storefront mock-up.

***This course is only offered for groups that come to our Headquarters Training Center**

8th Edition 2023 Florida Building Code with Components and Cladding

Number: YKK 2023 FBC

Length: 1.0 Hour

LU & HSW: Yes

Jobs permitted after 2023 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.

Ensuring Compliance with Today's Energy Codes and Green Standards

Number: ENERGCOM R2

Length: 1.0 Hour

LU & HSW: Yes

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).

Proper Application of Storefront, Window Wall and Curtain Wall

Number: OA301R3

Length: 1.0 Hour

LU & HSW: Yes

While storefront, window wall and curtain wall 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.

Windows for Schools and Commercial Buildings

Number: YKK WFSCB R1 **Length:** 1.0 Hour **LU & HSW:** Yes

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 R3 **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.

Accessibility Standards for Fenestration

Number: YKK 100 ACC R2 **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.

Fenestration and Glazing Considerations for School Safety

Number: School Safety R2 **Length:** 1.0 Hour **LU & HSW:** Yes

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.

Texas Coastal Codes for Glazed Openings

Number: TXCoastalCodes **Length:** 1.0 Hour **LU & HSW:** Yes

The Texas Department of Insurance (TDI) adopted the 2018 International Building Code with an effective date of September 1, 2020. Their authority is limited to the Designated Catastrophe Area as defined by the Texas legislature. The focus of this course is to understand requirements and changes affecting glazed openings. ASCE 7 - 2016 will also be reviewed.

Organic Finish or Anodized? Making the Right Choice

Number: YKK 100 FIN R2 **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.

Hurricane Impact Resistance: Components and Cladding

Number: YKK Impact **Length:** 1.0 Hour **LU & HSW:** Yes

Testing and performance standards for hurricane impact and cyclic pressure testing were established in the mid 1990's and have now been referenced in coastal building codes for over 20 years. This course will share examples of how buildings have fared under these performance standards and how to leverage this knowledge to make buildings safer.

Blast Mitigating Fenestration Systems

Number: YKK Blast 100 **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.

Nobody Wants to Hear That! Improving Acoustical Performance

Number: Acoustics R1 **Length:** 1.0 Hour **LU & HSW:** Yes

Windows and doors are often the weak link when designing a building for protection from specific noise pollution. This course reviews the basics of sound transmission and the industry performance standards for measuring / testing sound transmission loss with components and cladding. The focus will then shift to specific design strategies to achieve the desired acoustical performance for a specific building.