SCHWAB GROUP
EDUCATION & TRAINING



Continuing Education Presentations

We offer approved CEU presentations and proprietary trainings for our tested, code compliant and sustainable building envelope products and assemblies however it works best for you - in your office, virtually/remote, hybrid (in-person & virtual) or more.

Applications in Sustainable Technology of Rooftop Equipment Supports
PHP Systems/Design
1 AIA LU/HSW

Building Better with Thermal Breaks
Armatherm
1 AIA LU/HSW

Continuous Insulation: Energy Efficiency and Performance Comparison of "ci"
Hunter Xci
1 AIA LU/HSW & 1 IIBEC CEU

Fundamentals In Louver Design
Airolite
1 AIA LU

Incorporating Continuous Insulation Into Complex Designs
Hunter Xci
1 AIA LU/HSW & 1 IIBEC CEU

Innovations in Rainscreen Surfaces & Mounting Systems
Elemex Architectural Facade Systems
1 AIA LU/HSW

Introduction to Existing Building Retrofits
PROSOCO R-Guard
1 AIA LU/HSW

The Role of Air & Water-Resistive Barriers in the Building Envelope
PROSOCO R-Guard
1 AIA LU/HSW

The Versatility of Metal Cladding
Berridge Manufacturing
1 AIA LU/HSW

Through-Wall Flashings and Transition Membranes: Selection and Installation
York Flashings
1 AIA LU/HSW & 1 GBCI

Solar Facades: Understanding Building Integrated Photovoltaics and Pressure-Equalized Rainscreens
Elemex Architectural Facade Systems
1 AIA LU/HSW

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Full Presentation Descriptions On Continuing Pages

AIROLITE The look that works.™
ARMATHERM™ THERMAL BREAK SOLUTIONS
BERRIDGE MANUFACTURING COMPANY
elemex Architectural Facade Systems
XCI HUNTER
PHP SYSTEMS/DESIGN BUILD IT RIGHT.
PROSOCO R-Guard AIR & WATER BARRIERS
YORK Flashings™

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Applications in Sustainable Technology of Rooftop Equipment Supports

Provider: PHP Systems/Designs
Learning Units: 1 AIA LU/HSW

AIA Approved Continuing Education

PHP SYSTEMS/DESIGN
BUILD IT RIGHT.

Description:
This course provides in-depth insight into the uses and benefits of pipe and equipment rooftop support applications. It includes discussions on safety issues, installation options, components and assembly, as well as the elements of design and engineering of the supports. Learn the positive benefits of these systems and avoid the pitfalls of wrong design and application. Identify the reasons that dictate a long term sustainable system, maximizing the longevity not only of the roofing system, but the equipment and components supported as well.

Learning Objectives:

- Identify the consequences of inadequate and non-engineered support apparatuses.
- Understand engineered/designed pipe and equipment support systems, how they are constructed, the advantages associated with using these systems and how they relate to Health and Safety issues.
- Review the design process, and the options available during each stage of the process, including seismic and high wind applications.

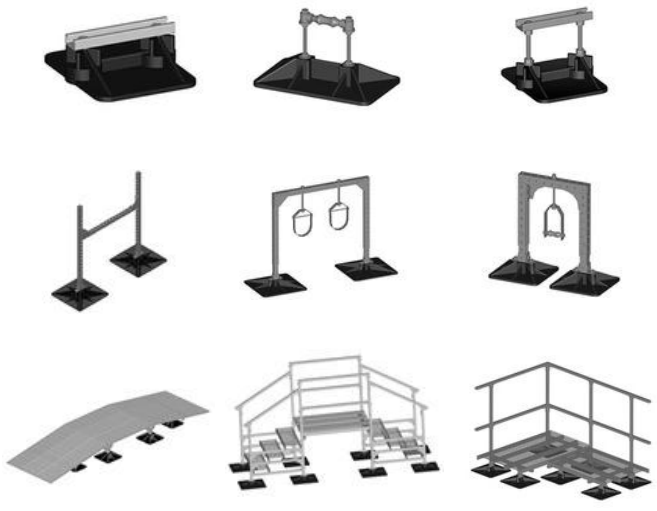
To schedule this AIA presentation please email php@schwabgroup.net or fill out this online form.

PHP Systems/Design

PHP is the nation's expert source for innovative, high-performance rooftop pipe and equipment support systems. First to implement "zero penetration" roof support systems allows PHP to provide limitless options for supports without jeopardizing roof warranties and provides safer rooftops for the technicians and service professional that work on them.

PHP recognizes that every rooftop environment is different and offers a customer-centric design approach at no additional cost showing customers the "build it right" mentality they stand by.

Houston, TX



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EDUCATION & TRAINING



Building Better with Thermal Breaks

Provider: Armatherm
Learning Units: 1 AIA LU/HSW

AIA Approved Continuing Education

ARMATHERM™ THERMAL BRIDGING SOLUTIONS

Thermal bridging is a big concern in the building industry, it has been recognized as a significant factor in building envelope heat loss. By reducing heat flow through a building's thermal envelope we can reduce energy consumption as well as prevent potential condensation issues. Building codes have increased requirements of building enclosures requiring 'continuous insulation' without thermal bridging. Thermal break materials can be used to reduce heat loss in wall assemblies, transitions and structural connections throughout the building envelope. They can minimize building energy loss and improve building envelope performance.
This course will provide an overview to thermal bridging, discussing the reasons why it occurs as well as how it can be prevented. This course will also compare building details with and without thermal break solutions to highlight the importance of determining accurate values of thermal transmittance.

To schedule this AIA presentation please email
armatherm@schwabgroup.net or fill out this online form.

ARMATHERM™ THERMAL BRIDGING SOLUTIONS

Armatherm™ is one of the leading suppliers of structural thermal break materials for the construction industry.

Armatherm™ thermal bridging solutions can be used anywhere a penetration or transition exists in a building envelope creating a thermal bridge. Armatherm™ structural thermal break materials minimize heat loss at balcony, canopy, parapet, masonry shelf angle cladding connections and more.

Acushnet, MA




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EDUCATION & TRAINING



CI: Energy Efficiency and Performance Comparison of CI

Provider: Hunter Panels
Course #: XCI302
Learning Units:
1 AIA LU/HSW & 1 IIBEC CEH

AIA Approved Continuing Education

Description:
Participants will learn about the evolution of continuous insulation, sustainability attributes, installation factors, air and water performance, and new ideas for simplified exterior wall designs incorporating CI.

Learning Objectives:

- How and why have insulation materials evolved over time?
- What are some sustainability attributes of various types of CI products?
- What are major factors that impact installation of CI?
- How does air and water performance compare for fibrous vs. foam insulations?

To schedule this AIA presentation please email
hunterxci@schwabgroup.net or fill out this online form.

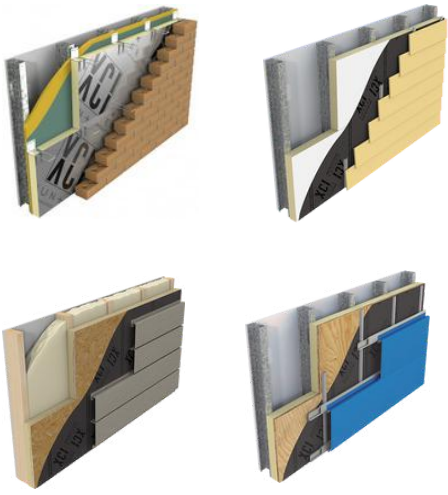
HUNTER

Hunter has been the leader in thermal efficient polyiso insulation for roof and wall applications since 1997. Thermal efficiency and sustainability are two cornerstones for Hunter.

Hunter products contain no HFCs, CFCs or HCFCs and are made using recycled materials. LEED credits can be given by utilizing Hunter products in the areas of optimizing energy performance, thermal comfort, building life-cycle impact reduction and more.

Hunter Panels currently manufactures its product in eight facilities in New York, Illinois, Florida, Texas, Utah, Washington, Pennsylvania & Missouri.

Polyiso Wall Insulations



Portland, ME

SCHWAB GROUP
EDUCATION & TRAINING



Fundamentals In Louver Design

Provider: Airolite
Course #: AIRO22
Learning Units: 1 AIA LU

AIA Approved Continuing Education

AIROLITE The look that works.™

Description:
This presentation will provide a comprehensive understanding of louvers, focusing on performance and integration. Attendees will learn about various louver options, the importance of third-party testing, and integration into your building facade. Architects, engineers, and building professionals will acquire the essential knowledge needed to effectively select and incorporate louvers into different building envelope systems.

Learning Objectives:

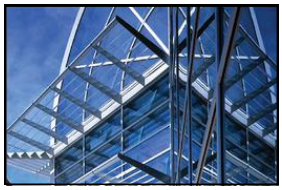
- Identifying the components of a louver and the optional accessory offerings.
- Understanding the 3rd party testing applicable to louvers and how to interpret the data to drive louver selection.
- Learn about integrating louvers into your building envelope - metal wall panels; masonry; and glazed wall applications.
- Understand the basics of louvers, resources available, and feel more confident approaching your next project.

To schedule this AIA presentation please email airolite@schwabgroup.net or fill out this online form.

AIROLITE The look that works.™

Airolite has been helping architects successfully enhance the appearance and performance of buildings all over America for over 100 years and today offers architectural louvers, custom grilles, equipment screens, sun controls, and canopies. All of their products are designed and assembled with pride in America at their Schofield, WI, and Shelby, NC facilities.

Schofield, WI


SCHWAB GROUP
EDUCATION & TRAINING



Incorporating Continuous Insulation Into Complex Building Designs

Provider: Hunter Panels
Course #: XCI303
Learning Units:
1 AIA LU/HSW & 1 IIBEC CEH

AIA Approved Continuing Education

HUNTER XCI

Description:
This presentation speaks to current code requirements involving "ci", delving into the relationship between continuous insulation and other performance components within the wall assembly. We will discuss how sound building envelope design addresses thermal performance, proper air and water management, and fire performance needs within wall assemblies. To support advancements in building design, the manufacturing, design, and code enforcement communities must work together to incorporate materials that address each of these functions within walls.

Learning Objectives:

- Examine the functional and code requirements surrounding continuous insulation.
- Learn how materials performance and testing impacts design options.
- Understand how the codes support and encourage innovation through testing and evaluations.
- Discuss how the manufacturing, design, and code enforcement communities can work together to ensure better-performing buildings.

To schedule this AIA presentation please email
hunterxci@schwabgroup.net or fill out this online form.

Hunter Xci Polyiso Wall Insulations - Portland, ME

Hunter has been the leader in thermal efficient polyiso insulation for roof and wall applications since 1997. Thermal efficiency and sustainability are two cornerstones for Hunter.

Hunter products contain no HFCs, CFCs or HCFCs and are made using recycled materials. LEED credits can be given by utilizing Hunter products in the areas of optimizing energy performance, thermal comfort, building life-cycle impact reduction and more.

Hunter Panels currently manufactures its product in eight facilities in New York, Illinois, Florida, Texas, Utah, Washington, Pennsylvania & Missouri.

SCHWAB GROUP
EDUCATION & TRAINING



Innovations in Rainscreen Surfaces & Mounting Systems

Provider: Elemex
Learning Units: 1 AIA LU/HSW

AIA Approved Continuing Education

elemex
Architectural Facade Systems

Elemex brings a new standard of service and products to the North American commercial building industry. They engineer stylish facade systems that are built on Unity, their proprietary attachment technology. Ceramitex is their newest facade system featuring exceptionally durable sintered ceramic panels that are non-combustible, UV resistant, climate defiant and graffiti proof. They bring function and design together - transforming their panels into integrated facade systems. With over 50 years in the industry, their team supports your projects from concept to completion. Experience the Elemex difference.

Learning Objectives - After this course, you should be able to:

- Discuss how modern rainscreens are a vital part of a water management system intended to work with the building envelope.
- List the common terms and definitions related to rainscreens and rainscreen mounting systems.
- Describe the most common types of materials used for rainscreens.
- Compare and contrast rainscreen installation methods, fasteners, and new attachment technologies.
- Evaluate and specify the most appropriate rainscreen systems and materials for projects.

To schedule this AIA presentation please email elemex@schwabgroup.net or call fill out this online form.

Elemex Architectural Facade Systems

Elemex is a fabricator of pressure equalized rainscreens using several different skin types. They fabricate Alumitex (aluminum composite + aluminum plate) but also offer specialty systems like their Ceramitex (sintered ceramic), Stonitex (natural stone) and Solstex (solar panels).

Elemex has been supplying rainscreen systems to US projects for 15 years and is backed by 40+ years of experience in the Canadian market.

alumitex® Aluminum Composite + Aluminum Plate

ceramitex® Sintered Ceramic

stonitex® Natural Stone

solstex® Solar Panels

London, ON Canada

SCHWAB GROUP
EDUCATION & TRAINING



Introduction to Existing Building Retrofits

Provider: PROSOCO
Course #: PRO036
Learning Units: 1 AIA LU/HSW

AIA Approved Continuing Education

PROSOCO R·Guard AIR & WATER BARRIERS

Description:
This program introduces building retrofits as a method to achieve green building standards by adapting existing structures. While a building retrofit may have several types of interventions, participants will learn how effective air sealing will improve overall occupant comfort, health, and safety. This includes a detailed look at sources of air leakage and the various methods to address this infiltration. Several real-world examples will demonstrate the importance of identifying source of air leakage, investigating existing conditions, and proper detailing.

Learning Objectives:

- Define building retrofits and identify goals of interventions.
- Illustrate how effective air sealing can help achieve goals of retrofit.
- Identify common sources of air leakage.
- Explain how to implement air sealing in a building retrofit.

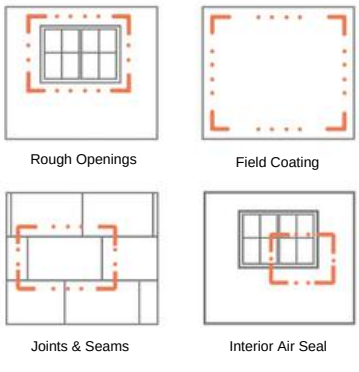
To schedule this AIA presentation please email prosoco@schwabgroup.net or call fill out this online form.

PROSOCO R·Guard AIR & WATER BARRIERS

Proven to withstand extreme weather conditions, PROSOCO R-Guard air & water barrier-protected buildings are more durable, resilient and sustainable.

The PROSOCO R-Guard Product Line includes fluid applied detailing products, field coatings, and accessories. Detailing products focus on penetrations and transitions, accessories address specific purposes within the building envelope, and field coatings provide a drainage plane for the face of the wall. These products can be used as a complete air barrier system or used individually for retrofit applications.

Liquid Applied Air Barrier Systems



Lawrence, KS

SCHWAB GROUP
EDUCATION & TRAINING



The Role of Air & Water Resistive Barriers In The Building Envelope

Provider: PROSOCO
Course #: PRO007
Learning Units: 1 AIA LU/HSW

AIA Approved Continuing Education

PROSOCO R·Guard AIR & WATER BARRIERS

Description:
An introduction to air and water-resistive barriers and how they work. The role of air leakage in causing mold in walls and high energy costs is explained. The program includes discussion of the different products on the market. It also explains why contemporary building envelopes need these products now more than ever before.

Learning Objectives:

- Discuss at least two factors behind the increasing use of air barriers.
- Describe how uncontrolled air moves through building envelopes.
- Compare/contrast air and vapor barriers.
- Support the use of vapor permeable air barriers.
- Identify key criteria for effective air barriers.

To schedule this AIA presentation please email prosoco@schwabgroup.net or fill out this online form.

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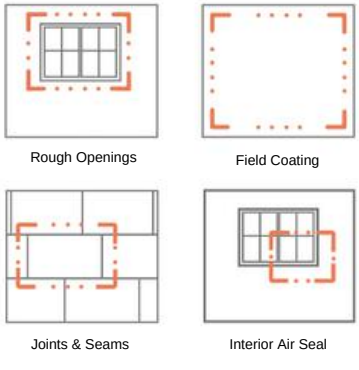
Liquid Applied Air Barrier Systems



Lawrence, KS

SCHWAB GROUP
EDUCATION & TRAINING



The Versatility of Metal Cladding

Provider: Berridge Manufacturing
Course #: BER23A
Learning Units:
1 AIA LU/HSW

AIA Approved Continuing Education

BERRIDGE MANUFACTURING COMPANY

The Versatility of Metal Cladding presentation examines the performance characteristics and attributes of metal roofing and cladding, including differences in aesthetic options, installation practices, and energy-efficiency. This course covers both wall and roofing applications and describes how they can be used to contribute to weather resistance and durability. The design professional will learn about different types of metal cladding and their design advantages. Case studies and project examples will be provided to help illustrate the benefits, diversity and unique properties of using metal on various projects.

To schedule this AIA presentation please email
berridge@schwabgroup.net or fill out this online form.

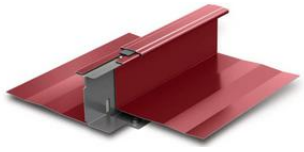
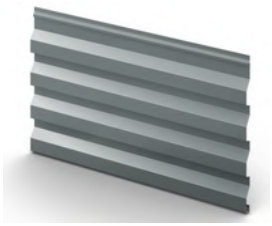
BERRIDGE MANUFACTURING COMPANY

For over 50 years, Berridge has set the standard in designing, developing and manufacturing the highest quality metal roofing and wall panel products in the industry.

Berridge offers over 30 products, including Standing Seam, Alternative Seam, Simulated Tile, Shingle, Wall Panel, Exposed Fastener, Specialty Application, and Fencing Systems. Berridge products are available in Kynar 500® or Hylar 5000® PVDF resin-based color finishes.

Berridge material is available in 24 Gauge and 22 Gauge Galvalume and 0.032 and 0.040 Aluminum.

Architectural Metal Systems

San Antonio, TX

SCHWAB GROUP
EDUCATION & TRAINING



Through-Wall Flashings and Transition Membranes: Selection and Installation

Provider: York Manufacturing
Course #: YORK22
Learning Units:
1 AIA LU/HSW & 1 GBCI LU

AIA Approved Continuing Education

GBCI CMP

YORK Flashings™

Description:
This presentation will cover a detailed explanation of the challenges and solutions facing through-wall flashings and transition membranes, provide a thorough description of the characteristics of several types of membranes, emphasize the importance of compatibility, and explain proper installation techniques.

Learning Objectives:

- Understand how to design a resilient and durable flashing system that will minimize life cycle costs.
- Explain the performance criteria used to specify through-wall flashings and transition membranes.
- Define the attributes of a variety of membrane materials.
- Understand the compatibility between cavity wall components.

To schedule this AIA presentation please email york@schwabgroup.net or call 630-326-9444.

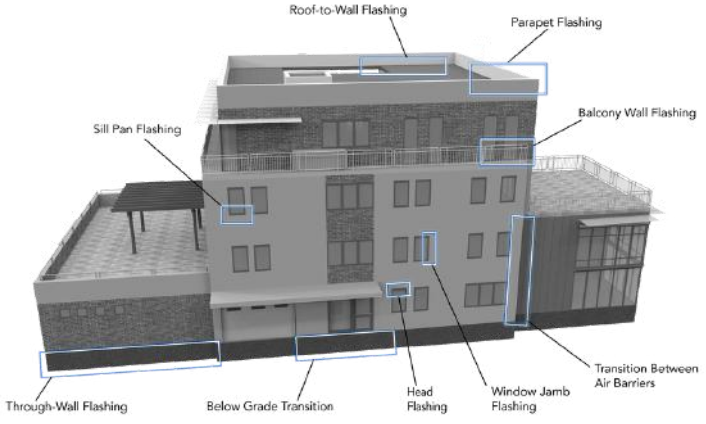
YORK Flashings™

Celebrating Innovation Since 1935

Specializing in transition membranes and through-wall flashing, York has been inventing and producing flashings since 1935.

York Flashings is the inventor of flexible stainless steel fabric flashing, stainless steel self-adhering flashing, drainage plane flashing, non-asphaltic copper fabric flashing and the original copper fabric flashing.

Sanford, Maine



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Solar Facades: Understanding Building Integrated Photovoltaics and Pressure-Equalized Rainscreens

Provider: Elemex
Learning Units: 1 AIA LU/HSW

AIA Approved Continuing Education

elemex
Architectural Facade Systems

The Solstex Facade System by Elemex is made from high-efficiency photovoltaic panels that are engineered to be weather-resistant and lightweight. Each large-format, code-compliant panel generates up to 16.9 W/sq.ft., reducing your building's dependence on fossil fuels, earning LEED credits, and generating savings that cover installation costs within 10-12 years. Designed to seamlessly integrate with other Elemex products, Solstex provides an unlimited range of design possibilities. Experience the Elemex difference.

Learning Objectives - After this course, you should be able to:

- Discuss the benefits of photovoltaic facades to the environment, and demonstrate how BIPV facade systems can contribute to LEED certification goals for architects and owners.
- List the components and possible attachment methods available for a successful design and installation of a BIPV facade system.
- Discuss the applicable standards and codes associated with modern BIPV facade systems.
- Explain the advantages of specifying pressure-equalized rainscreen technologies into BIPV facade system designs.

To schedule this AIA presentation please email elemex@schwabgroup.net or fill out this online form.

Elemex Architectural Facade Systems

Elemex is a fabricator of pressure equalized rainscreens using several different skin types. They fabricate Alumitex (aluminum composite + aluminum plate) but also offer specialty systems like their Ceramitex (sintered ceramic), Stonitex (natural stone) and Solstex (solar panels).

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ALUMITEX® Aluminum Composite + Aluminum Plate

CERAMITEX® Sintered Ceramic

STONITEX® Natural Stone

SOLSTEX® Solar Panels

London, ON Canada