

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.

An Introduction to Architectural Sun Controls & Entrance Canopies 1 AIA LU/HSW

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

> Building Better with Thermal Breaks 1 AIA LU/HSW

Connecting the Dots: Air Barrier Transitions 1 AIA LU/HSW

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

FREEDOM OF DESIGN Integrating Metal Walls & Rainscreens into Your Projects 1 AIA LU/HSW Fundamentals In Louver Design 1 AIA LU

High Performance Design and Detail Considerations for Air Barriers 1 AIA LU/HSW

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

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

Introduction to Existing Building Retrofits 1 AIA LU/HSW

Navigating the Challenges for a Better Performing (and code compliant) Wall Assembly 1 AIA LU/HSW Solar Facades: Understanding Building Integrated Photovoltaics and Pressure-Equalized Rainscreens 1 AIA LU/HSW

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

> The Versatility of Metal Cladding 1 AIA LU/HSW

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

Working Together: Weather Resistant Barriers (WRB) and Continuous Insulation 1 AIA LU/HSW & 1 GBCI

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Full Presentation Descriptions On Continuing Pages











BERRIDGE

MANUFACTURING COMPANY







An Introduction to Architectural Sun Controls & Entrance Canopies

Provider: Airolite Course #: AIROL24 Learning Units: 1 AIA LU/HSW





Description:

Architectural sun controls and entrance canopies are integral elements in building design that enhance both functionality and aesthetics. Sun controls, such as louvers, screens, and shading devices, are designed to manage the amount of sunlight entering a building, reducing glare and heat gain while improving energy efficiency and occupant comfort. Entrance canopies, on the other hand, are structures that extend over entryways, providing shelter from the elements and creating a welcoming transition between the outdoor and indoor environments. These features not only contribute to the overall visual appeal of a building but also play a crucial role in sustainable design and user experience.

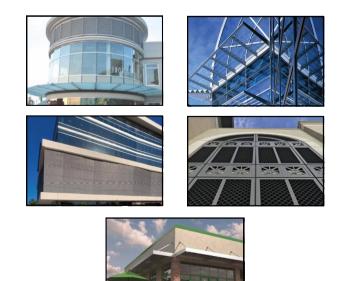
Learning Objectives:

- Introduction and definitions of what Sun Controls and Entrance Canopies are.
- Discuss the form and functional aspects based on applications and design intent.
- Review components, installation, building substrate engineering, and architectural finishes.
- Design considerations for integrating sun controls or canopies into the building design.

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



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



Applications in Sustainable Technology of Rooftop Equipment Supports

Provider: PHP Systems/Designs Course #: PHP203-2 Learning Units: 1 AIA LU/HSW





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.

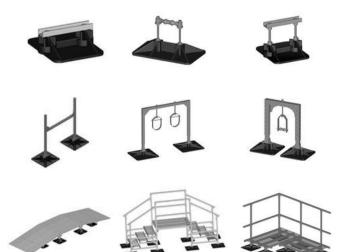
To schedule this AIA presentation please email

php@schwabgroup.net or fill out this online form.

PHP Systems/Design

PHP is the nation's expert source for innovative, highperformance 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



Building Better with Thermal Breaks

Provider: Armatherm Learning Units: 1 AIA LU/HSW





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.

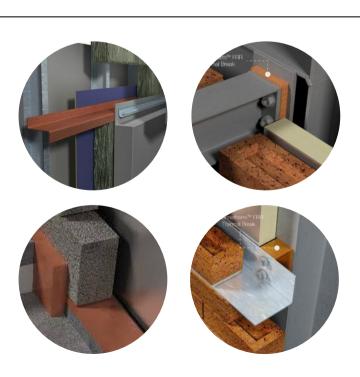
To schedule this AIA presentation please email armatherm@schwabgroup.net or <u>fill out this online form</u>.



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





Connecting the Dots: Air Barrier Transitions

Provider: York Manufacturing Course #: YORKT2025 Learning Units: 1 AIA LU/HSW





Description:

A chain is only as strong as its weakest link, and this principle is equally applicable to air barriers. For an air barrier to function effectively, it must be continuous. This is why the design process is often described by the adage, "the pencil must not leave the paper." This program will focus on the critical transitions between materials and guide you through the key considerations you'll encounter when designing an air barrier system. Proper control and management of air and water are essential for the creation of durable, healthy buildings.

Learning Objectives:

- Become aware of the compatibility issues between the building enclosure's air barrier components.
- Review and discuss the areas with the highest potential for air and water issues.
- Demonstrate ways to reduce the risk of water and air infiltration at transitions.
- Understand how the air barrier components transition.

To schedule this AIA presentation please email

york@schwabgroup.net or call 630-326-9444.



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





CI: Energy Efficiency and Performance Comparison of CI

Provider: Hunter Panels Course #: XCI302-23 Learning Units: 1 AIA LU/HSW & 1 IIBEC CEH



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 <u>fill out this online form</u>.



Polyiso Wall Insulations

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.



Portland, ME



FREEDOM OF DESIGN How to Integrate Metal Walls & Rainscreens into Your Projects

Provider: Berridge Manufacturing Course #: BER24A Learning Units: 1 AIA LU/HSW





Description:

For many years, preformed metal wall panels have been a top choice for building owners and architects, offering an excellent blend of cost effectiveness, functionality, and aesthetic appeal, particularly in rainscreen and screenwalls. This course examines the different materials, profiles, and finish options for these panels and dives into applications and best practices for design and installation.

Learning Objectives - At the end of this program, participants will be able to:

- Select the appropriate materials for preformed metal panel designs, considering factors such as sustainability, cost-effectiveness, and maintenance requirements.
- Differentiate rainscreen wall systems from other wall types, focusing on their role in water management and overall performance.
- Recognize various metal wall panel profiles and finishing options, evaluating their durability, color retention, longevity, and solar reflectance properties.
- Apply best practices in the design and installation of preformed metal wall panels to maximize durability, weather resistance, and long-term performance.

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



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



Fundamentals In Louver Design

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





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.

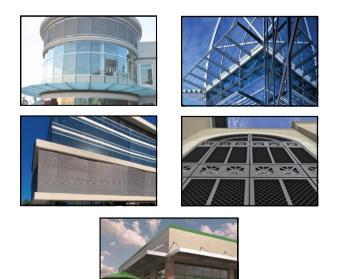
Learning Objectives:

- 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 <u>fill out this online form</u>.



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



High Performance Design and Detail Considerations for Air Barriers

Provider: PROSOCO Course #: PRO039-24 Learning Units: 1 AIA LU/HSW





Description:

Beyond being code required, discuss the importance of air barriers and their impact on energy efficiency and indoor air quality. This course evaluates common installation challenges of various technologies and how to overcome them to reduce construction delays and innovations in fluid applied waterproofing technologies to show a path forward for designers seeking higher-performing wall assemblies. This course also uses several specific, yet common, details to discuss sequencing of materials to achieve air barrier continuity while also managing moisture.

Learning Objectives:

- Explain the essential role air barriers play in increasing energy efficiency & improving occupant health by positively impacting indoor air quality (IAQ).
- Review of air barrier types and advantages of High- Performance Technologies that are better suited to meet the needs of today's construction market.
- Explain critical importance of a building envelope Pre-Construction Meeting and the essential topics to cover.
- Identify and explain essential elements to achieve air barrier continuity through review of typical transition details found on most buildings.

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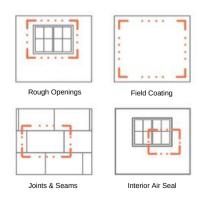
prosoco@schwabgroup.net or call fill out this online form.



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



Incorporating Continuous Insulation Into Complex Building Designs

Provider: Hunter Panels Course #: XCI303-24 Learning Units: 1 AIA LU/HSW & 1 IIBEC CEH





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.





Innovations in Rainscreen Surfaces & Mounting Systems

Provider: Elemex Course #: K1706Z Learning Units: 1 AIA LU/HSW





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.









London, ON Canada



Introduction to Existing Building Retrofits

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



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

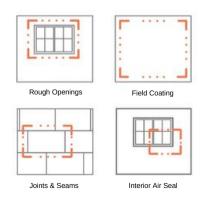
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Liquid Applied Air Barrier Systems



Lawrence, KS



Navigating the Challenges for a Better Performing (and code compliant) Wall Assembly

Provider: Hunter Panels Course #: XCI601-23 Learning Units: 1 AIA LU/HSW





This course explores the evolving requirements for continuous insulation (CI) in building codes, including the International Building Code (IBC) and International Energy Conservation Code (IECC), with a focus on next-generation standards. Participants will gain a comprehensive understanding of thermal performance metrics such as R-values and U-values, as well as key testing standards (ASHRAE, ASTM C518) that influence material selection.

The course will also examine critical fire, air, and water management testing protocols (ASTM E84, NFPA 285, UL 263, ASTM E2178, ASTM E2357, ASTM E96, ASTM C209, and C272) and their impact on CI materials, code compliance, and overall wall system performance. Through discussions on hybrid wall assemblies, attendees will explore how different insulation types interact within a wall system, ensuring optimal durability, energy efficiency, and long-term functionality.

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

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.





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

Provider: Elemex Course #: K2012CD Learning Units: 1 AIA LU/HSW





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).

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









London, ON Canada



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

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



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.

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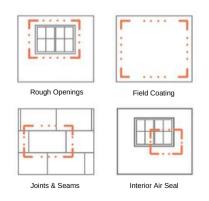
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Liquid Applied Air Barrier Systems



Lawrence, KS



The Versatility of Metal Cladding

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





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 <u>fill out this online form</u>.



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.

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

Architectural Metal Systems







San Antonio, TX



Through-Wall Flashings and Transition Membranes: Selection and Installation

Provider: York Manufacturing Course #: YORK25 Learning Units: 1 AIA LU/HSW & 1 GBCI LU



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.



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





Working Together: Weather Resistant Barriers (WRB) and Continuous Insulation

Provider: Hunter Panels Course #: XCI307-23 Learning Units: 1 AIA LU/HSW





This course explores the critical relationship between weather-resistant barriers (WRB) and continuous insulation (CI) in modern building design. Participants will examine the evolution of air and water barrier materials within the construction industry and understand their mutual importance in achieving a high-performance building envelope. The course will provide insights into the benefits and limitations of different WRB and CI materials across various building applications, helping professionals make informed decisions. Additionally, attendees will discuss strategies for designing simplified, more effective building envelopes that enhance durability, energy efficiency, and long-term performance.

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

Hunter Xci Polyiso Wall Insulations - Portland, ME

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