







## **Modern Masonry Rainscreen Systems** ***1 hour 15 minutes***

An overview of today's modern masonry wall assemblies including terracotta, brick, lightweight stone. Includes a number of project profiles. Course will instruct the architect on the latest technologies on masonry rainscreen assemblies, understanding the critical differences between modern rainscreen assemblies and conventional masonry systems. Learn how to maximize the benefits of rainscreen assemblies to owner/client including weight reductions, thermal performance. Understand the design options with rainscreen brick, terracotta and stone veneers with corners, openings, returns, and other aspects of the exterior

## **Telling Architectural Systems** **1.0 HSW**





## **Specifying Fibercement Wall Systems Best Practices for Modern Buildings**

***1 hour 15 minutes***

This course will discuss different options available for fiber cement cladding and how fiber cement can be used to meet project aesthetic, budget, and performance goals. The lifetime cost and expected service life of fiber cement cladding, as well as other cladding materials, will be compared and contrasted. Changes to energy and building codes, and how fiber cement cladding can be used in conjunction with exterior continuous insulation systems (CI), will be discussed, as well as attachment strategies and detailing over CI. This course will also cover fire and combustibility testing as it relates to assemblies with fiber cement cladding, and when specific testing is required by the code.

**CERACLAD**  
**1.0 HSW**





## **Managing Condensation, Water Intrusion and Energy in the Real World**

### ***1 hour 15 minutes***

Window opening air and water leakage has been a difficult problem for the construction industry. This course evaluates building failures, conventional construction approaches, and new developments in waterproofing techniques to show a path forward for designers seeking higher-performing wall assemblies. Compare and contrast the similarities and differences between silicone, urethane, and STPE sealants. You'll examine the multi-step weatherproofing process of conventional window installation and how such installations fare in real-world testing conditions. Explain window weatherproofing techniques using liquid flashing membranes.

**PROSOCO**  
**1.0 HSW**





## **Introduction to Existing Building Retrofits**

***1 hour 15 minutes***

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, effective air sealing improves the durability of the structure and occupant comfort, health, and safety. This course includes a detailed look at sources of air leakage and the various methods available to address this infiltration. Several real-world examples demonstrate the importance of identifying the source of air leakage, investigating existing conditions, and proper detailing.

**PROSOCO**

**1.0 HSW**





## **Protective Treatments for Masonry** ***1 hour 15 minutes***

Description: An overview of the effects of water on masonry architecture. Types of masonry water repellents are compared and contrasted. Application methods are discussed. The program ends with a look at treatments for protecting masonry against non-water threats such as oil and graffiti.

### **Learning Objectives:**

- List six ways water penetration harms masonry.
- Identify the two main types of protective treatments.
- Research and select appropriate protective treatments.
- Describe application methods for protective treatments.

**PROSOCO (PRO 018)**  
**1.0 HSW**





## **Mineral Wool as a (CI) Continuous Insulation Solution**

***1 hour 15 minutes***

Insulation can help increase overall energy efficiency, minimize the spread of fire, manage risks associated with moisture and mold, and improve occupant comfort. Choosing the right insulation and putting it in the right location is becoming one of the most important decisions in design, construction, and retrofit. Reviewed in this course are the features, benefits, and design and installation considerations related to mineral wool continuous insulation.

**Owens Corning / Thermafiber**  
**1.0 HSW**





## **Fire Safety in High-Rise Structures** ***1 hour 15 minutes***

One of the most complex and least understood areas where fire can propagate is at the perimeter of a multistory building. Fire can spread not only from floor to floor via the edge-of-slab/curtain wall intersections but also along the exterior building enclosure where untested, combustible components are often installed. This program outlines best design practices for providing fire protection for building occupants per ASTM E2307 and ASTM E2874.

**Owens Corning / Thermafiber**  
**1.0 HSW**





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