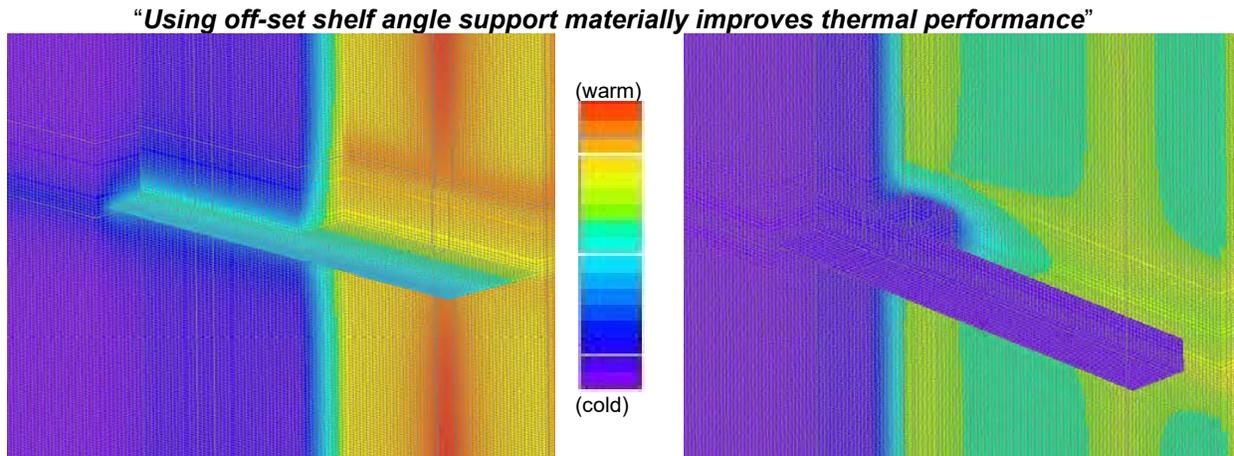


**Thermally Broken Shelf Angle Design for Masonry & Stone Facades Webinar  
(AIA Program #F194 / LU | HSW Hours 1.00)**

**OVERVIEW:** This presentation focuses on thermally efficient methods for masonry cladding supports that promote the standards of Passive House Building, LEED and Green Building, along with the requirements for continuous insulation in above-grade wall assemblies. These requirements are more common as the industry moves toward more demanding thermal performance standards and energy efficient wall assemblies. Understanding the impacts of conventional shelf angles on energy efficiency and cost is a critical consideration for your next building envelope design.



From the 2019 Colorado Masonry Systems Design Guide: Thermal images of a continuous (top) and standoff (bottom) shelf angle support arrangement at a concrete floor line and steel-stud framed backup wall.(Fig. 8-11, p.132)

**PRESENTERS:**

**Adam Kimble, Sales Director**



Adam oversees the sales and marketing of all FERO products throughout North America. Adam holds degrees in both Civil Engineering and Business and brings more than 20 years of senior experience in innovative construction products, particularly focused on concrete, masonry and thermal performance. Adam focuses on providing a technical, collaborative and relationship-based approach to FERO’s business.

**Michael Ross, Senior Technical Advisor**



Michael oversees the design of effective and innovative structural and architectural FERO solutions for a variety of projects. He has an MSc in Structural Engineering, specializing in concrete masonry, and has over 10 years of experience in the field of structural consulting. Michael focuses on taking a pragmatic, value-add approach to engineering. The combination of his education and his consulting roles enable him to understand the needs of architects and engineers working with FERO products and how to help them achieve their design goals.

**Contact us today to book your presentation!**

 **Phone: (780) 455-5098**  **engineering@ferocorp.com**  **www.ferocorp.com**

**OTHER COURSE DETAILS:**

Course Delivery Type: Live Webinar  
Course Level: This course is Intermediate

**Prerequisite Knowledge:** For design and construction professionals familiar with building and energy codes.

**HSW Justification:**

This course qualifies for HSW credit because it addresses two HSW topics: (1) Project Planning and Design, and (2) Project Development and Documentation. With respect to Project Planning and Design, the presentation focuses on designing with an offset shelf angle system to optimize energy efficiency and structural performance, as well as reduce materials and labor costs. With respect to Project Development and Documentation, the presentation focuses on integrating a building system (offset shelf angle) that is thermally broken.

**Learning Objective 1:** What is an Energy Efficient Shelf Angle Design?

**Learning Objective 2:** Understanding issues with Conventional Shelf Angle Design: (1) Thermal Bridging (2) Difficult Installation (3) Costs.

**Learning Objective 3:** Integrating Thermally Broken Shelf Angles provide an energy efficient, adjustable, customizable and cost-effective connection solution for your wall assembly.

**Learning Objective 4:** Unparalleled wall-assembly performance can be achieved by incorporating Thermal Ties or Connectors.



A recent project, pictured above, utilized Thermal Brackets with a cost-effective 4 x 4" shelf angle, resulting in a dramatic reduction in the amount of steel that would have otherwise been required to accommodate the 9.5" cavity. More project details can be found here: <https://ferocorp.com/gene-zwozdesky-centre-norwood-redevelopment/>



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