



Technology
Chemicals
Machinery

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AIA Continuing Education Opportunity

Program title:

Improving thermal performance in structural windows

Length: 1 hour

Learning Units: 1 LU

Course description: This AIA accredited presentation provides an overview of aluminum framing materials and insulating glass in the fenestration industry, and addresses how both can be made more energy efficient.

Part 1: Thermal barrier in the aluminum frame is a common and widely accepted technology in window and glazing systems. The primary purpose of thermal barrier is to make the overall aluminum framing system more energy efficient by separating the outside environment from the inside, while maintaining the structural integrity of the window system.

The presentation reviews two different processes—pour and debridge and the strip system—to accomplish this. Thermal and structural performances are presented, along with a review of applicable ASTM and AAMA guidelines and tests. Warranties are also discussed.

Part 2: Warm-edge technology for commercial insulating glass is also presented, covering one of the newer topics in the high performance glass industry. The aluminum spacer, by virtue of its high thermal conductivity, has become the weak link in the glazing system. The widespread use of high performance glass, along with thermally improved wall systems, has created a weak link that can be corrected. Warm-edge technology improves the overall U-factor and the condensation resistance factor (CRF) of the fenestration system. Warm-edge technology is compared to the most commonly used air spacer material in terms of thermal and structural performance. As new and more stringent building codes are introduced, every component of the fenestration system is being evaluated for performance improvements.

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ISO 9001:2000
Certification

