

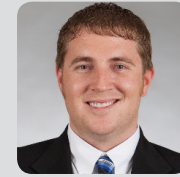
# AIA Seminar - Technoform

<b>Provider:</b>	Technoform	<b>Provider#:</b>	38769184
<b>Program Title:</b>	Designing High Performance Facades	<b>Program#:</b>	TNA102
<b>Length:</b>	60 mins	<b>Credits:</b>	1 LU

This course describes the multiple challenges in designing high performance building envelopes in order to deliver energy performance, sufficient glazed area for optimized daylight admission and views, thermal comfort and condensation resistance (indoor air quality) as well as structural and durability performance, yet still providing architectural design freedom. Common disconnects in specifying fenestration and fenestration components are reviewed. The concept of the “thermal zone” is introduced, and technologies such as polyamide thermal breaks and warm-edge spacer, that improve its performance are described. Guidance is provided on choosing the optimum thermal break and edge of glass spacer technologies to meet thermal performance requirements while still delivering the structural and durability requirements, and also allowing architectural design freedom. The fenestration U-factor requirements of the recently updated and more stringent energy codes, and how to specify fenestration components to meet them, are also covered.

## Learning Objectives:

- Describe the current challenges for designing high performance, sustainable, building envelopes.
- Summarize the key thermal zone technologies in the market and choose optimum thermal break and spacer technology to reach design thermal performance targets, while maintaining durability and structural performance, and optimizing aesthetics.
- Identify the common misconceptions regarding the specification of fenestration.
- Identify through case studies the use of thermal zone technology selection strategies to create high performance building envelopes in a range of climate zones and applications.



**Ron Sucik**  
Market Team

Ron Sucik is a Market Team member at Technoform Glass Insulation responsible for product management and market development. He graduated from Western Michigan University with a Bachelors of Applied Science in Mechanical Engineering and has over 10 years in the HVAC and Glass industries. Ron has been part of the New Product Development team and is an active member of the Glass Association of North America.