EnergyShield®
Continuous Wall Insulation

AIA Continuing Education Course Overview

Inside the Polyisocyanurate Plant: Manufacturing, ASTM Types, and the Effect of Elevation

Course Number: AtlasWallPlant **Credit Type: 1LU|HSW**

This guided plant tour takes participants through the full polyisocyanurate manufacturing process, from chemical components and lamination to cutting, curing, and packaging, while explaining the Types and Grades defined within ASTM C1289 and how facility elevation influences blowing agent behavior and production parameters. Attendees will also observe quality-control testing firsthand, including R-value, compressive strength, and dimensional stability, and learn how these measurements demonstrate compliance with ASTM standards and inform specification decisions.

Learning Objective

- Describe the polyisocyanurate manufacturing process, from raw chemical components through lamination, curing, and cutting, and explain how process controls produce a stable, fire-tested insulation product that performs safely within the building enclosure.
- Differentiate the Types, Classes, and Grades of polyiso defined in ASTM C1289, and evaluate how facer composition and compressive strength requirements determine which product may be safely specified for a given roof or wall assembly without compromising fire performance or structural loading.
- Explain how manufacturing facility elevation affects blowing agent behavior, cell structure, and finished board consistency, and assess why these variables must be controlled to deliver the thermal performance a specifier relies on for code-compliant, condensation-resistant enclosure design
- Analyze quality-control test results for R-value, compressive strength, and dimensional stability, and apply that data to verify manufacturer compliance with ASTM standards when reviewing submittals and writing enforceable specifications.



James Mercer

Atlas EnergyShield West Regional Sales Manager

James' 25 years of experience in the building envelope industry spans all aspects of the construction cycle, from providing technical guidance during design to supporting logistics throughout the construction process. He has spent his career becoming a trusted resource for contractors, designers, and distributors across the Western United States.

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Tina Cannedy

Atlas EnergyShield Director of Business Development

Tina has over 30 years of experience in the technical aspects of continuous insulation systems, claddings, air and water barriers, building codes and testing.

She is a passionate Florida Gators fan, an avid golfer, and enjoys hosting fun and informative lunch-and-learns.

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