

# Integrity Windows and Doors

## Composite Materials and Pultruded Fiberglass in the Window and Door Industry 1H/S/W

Designed as an educational tool for the architectural community, this hour-long presentation discusses the following topics:

- History of fiberglass.
- Properties and characteristics of alternative materials.
- Value of alternative materials in enhancing a home's design.
- General overview of the pultrusion process.

AIA members will earn 1 Health/Safety/Welfare Learning Unit.

## Green Building: Going Mainstream 1H/S/W

This class outlines the progression of the green building movement and why it is important for today's residential architects and building designers. Details discussed include the benefits of green building and key rating programs, how windows contribute to the points awarded by green building rating programs, such as LEED-H and the effects of green building in the window and door industry, from ENERGY STAR® glazing to recycling.

AIA members will earn 1 Health/Safety/Welfare Learning Unit.



## Architectural Tour 8 H/S/W

This two day plant tour in Warroad, Minnesota presents in-depth product training and manufacturing that is focused on product quality and customer satisfaction. Time is spent with the Architectural Department to learn how project collaboration results in the best project solution. Topics covered include:

- Design
- Environment/Sustainability
- Information Technology
- Performance Technology
- Practice Management
- Project Delivery

AIA members will earn 8 Health/Safety/Welfare Learning Units.

## Cardinal Tour 2 H/S/W

Take this two hour tour of a Cardinal Plant to see how float glass (Menominee, Wisconsin) or coated glass, Low E II (Northfield, Minnesota) is created. Learn how different Marvin glass is fabricated and much more.

AIA members will earn 2 Health/Safety/Welfare Learning Units.



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## Marvin and Integrity Windows and Doors AIA/CES Seminars

## Learning Units

### Marvin Windows and Doors:

AAMA 2605-02	1H/S/W
Architectural Design Software	1 Unit
Changing Codes Impacting Your Life?	1H/S/W
Controlling Sound Transmission	1H/S/W
Designing with Light	1H/S/W
Glazing: Options & Styles	1H/S/W
Integrated Performance Standards	1H/S/W
Understanding Energy-Efficient Windows & Doors	1H/S/W

### Integrity Windows and Doors:

Composite Materials and Pultruded Fiberglass in the Window and Door Industry	1H/S/W
Green Building: Going Mainstream	1H/S/W
Architectural Tour	8 H/S/W
Cardinal Tour	2 H/S/W

Most of these seminars fulfill AIA's Health/Safety/Welfare Learning Requirements.

Contact John Crane, Education Director at [jcrane@awhastings.com](mailto:jcrane@awhastings.com) or 800.394.2728 Ext. 2717

# Marvin Windows and Doors

## AAMA 2605-02

1H/S/W

- Includes information on AAMA 2605 specifications and how to compare them.
- Explains the tests that a product must pass to be labeled as AAMA 2605.
- Details why finishes fail.
- Describes how you can achieve a more durable finish than typical 70% Kynar.

AIA members will earn 1 Health/Safety/Welfare Learning Unit.

## Architectural Design Software

1 Learning Unit

This presentation explains how Architectural Design Software can design windows and doors, as well as be an excellent tool for product specifications. This seminar demonstrates how:

- Units can be added to a project database, allowing for modifications to specifications such as hardware, jamb extensions, casings, lite patterns, sizing and much more.
- The software updates elevations and details of the specified units as modifications are being made.
- Details and elevations can be inserted into drawings in a generic format along with plan views.
- Product specifications can be created giving the summary of the different options that are being used.

AIA members will earn 1 Learning Unit.



## Changing Codes Impacting Your Life?

1H/S/W

This one hour presentation covers hurricane history/information and the forces driving code development. It also covers International Residential Codes (IRC), International Building Codes (IBC), International Energy Conservation Codes (IECC) and construction solutions and specifications. Developed to teach/train about the need for storm resistant products.

AIA members will earn 1 Health/Safety/Welfare Learning Unit.

## Controlling Sound Transmission

1H/S/W

This presentation will cover the importance of acoustical performance in building products and ways to improve product ratings. Also discussed will be sound transmission loss, acoustical ratings and how to achieve the best ratings for a building's location and intended use.

AIA members will earn 1 Health/Safety/Welfare Learning Unit.

## Designing with Light

1H/S/W

This one hour presentation explains the benefits of natural light being used in building construction. After breaking down the elements of sunlight, the presentation will show how to control it using various glazing options and offering some key design solutions to maximize the light brought into a room or building.

AIA members will earn 1 Health/Safety/Welfare Learning Unit.

## Glazing: Options & Styles

1H/S/W

Provides architects with an introduction to glass and glazing, covering energy efficiency, security and safety and some very interesting aesthetic options. The presentation includes a 4 minute video clip that covers impact glass testing.

AIA members will earn 1 Health/Safety/Welfare Learning Unit.

## Integrated Performance Standards

1H/S/W

This one hour presentation explains the integrated standard and its genesis.

- Performance criteria for windows and doors.
- Five performance classes of windows and doors.
- Specifications for window and door materials.

This knowledge can protect against product failures that result from improper product selection for a specific application. Familiarity with industry standards help create innovative design.

AIA members will earn 1 Health/Safety/Welfare Learning Unit.

## Understanding Energy Efficient Windows

1H/S/W

This visually enhanced one hour presentation covers the basics of energy efficiency:

- How windows and doors gain and lose heat.
- What makes a window energy efficient.
- How frame materials perform differently.
- How to measure a window's performance and specify the right window.

AIA members will earn 1 Health/Safety/Welfare Learning Unit.