FLEETWOOD
WINDOWS & DOORS

IECC COMPLIANCE AND FLEETWOOD

IECC

The International Energy Conservation Code is designed to reduce energy consumption in new construction and home remodels. Three methods of fenestration compliance are offered to build homes within compliance.

FLEETWOOD

Fleetwood designs products for the modern home market; BIG pieces of glass and slim lines. Aluminum is *the* superior building material, but requires a custom approach to IECC compliance.

COMPLIANCE METHODS

More Glass

OR

Reduce Total Glass

OR

More Product Options

OR

Limit Product Options

OR

Custom, Accurate Efficiency

OR

Simplistic (not custom)

OR

Requires Energy Consultant & Allows Trade-Offs

OR

Fast Tract Compliance

OR

Ideal for Custom Homes

OR

Designed for Tract Homes

OR

Savings on Large Homes

Savings on Tract & Production Homes

UA ALTERNATIVE METHOD

This UA method permits weighted average values in place of the per-item mandates.

ENERGY RATING INDEX

The ERI method adopts an index score calculation. Each element of the home scores index points. The home complies if it does not exceed the maximum ERI.

PRESCRIPTIVE

The key word being “Prescribe”, meaning restrictive or mandated. Prescriptive is the simplest method, ideal for tract home development, but poses complications on modern homes that prefer a larger percentage of glass and more product options.

PERFORMANCE–BASED COMPLIANCE

IECC offers practical approaches to energy compliance and common sense efficiency. The UA weighted value alternative or Energy Rating Index can allow a great deal of design options by allowing architects to offset performance with other elements of the home's energy package.

Discuss this with your IECC energy consultant to determine which route allows the most design flexibility.

ENERGY RATINGS
NFRC vs. SPA

NFRC values often represent an inaccurate and tiny specimen size when modeling energy ratings. For example, the typical NFRC test for a sliding door is a 7' x 7' opening. While this fast-track simplicity is ideal for tract home development, it creates a conundrum for custom homes. Fleetwood is often selected for large sliding glass walls where the center of glass outperforms the value represented by the tiny specimen.

Example

With high-performance dual-pane glass, the NFRC U-factor for Fleetwood's Series 3070-T sliding door is 0.29. If we take the same software used by NFRC and model a 35' x 10' wall of sliding glass, the same product achieves a 0.24 value. Yet, the door is labeled with the values of the tract home model.

In an effort to provide ACCURATE energy values, Fleetwood will provide a manufacturer Simulated Performance Alternative (SPA). The SPA value utilizes the same software used by NFRC to calculate the custom energy ratings for the actual product. The building department and inspectors in many municipalities are open to accepting the more accurate SPA numbers case-by-case.

ENERGY CONSULTANTS

The alternative compliance methods and SPA values are best handled by an energy professional with specialization in modern homes. Fleetwood has vetted and recommends the following:

Desert Skies Code Compliance
Gilbert, AZ
info@buildcompliant.com

FREE ENERGY REPORTS

Fleetwood will assist with energy calculations in the early stages of project development. Provide your window and door schedule and IECC compliance standards to sales@fleetwoodusa.com and we will provide an Energy Report with certified NFRC values, SPA values and area-weighted averages.

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