



ENERGY STAR[®] Program

Fenestration Attachments?

U.S. Environmental Protection Agency (EPA)

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Doug Anderson

Key Question



Q: Can fenestration “attachment” products become ENERGY STAR labeled (qualified) products?

Answer: It is unclear to EPA whether these products can meet the requirements of the ENERGY STAR program.

ENERGY STAR Guiding Principles



Products must have:

- 1. Significant energy savings on a national basis**
- 2. Equivalent (or better) functionality and performance**
- 3. Costs that can be recovered (cost-effective)**
- 4. More than one proprietary technology pathway**
- 5. Energy savings that can be measured and verified with testing**
- 6. A label that would provide meaningful differentiation**

Major Issues



1. Energy savings that can be measured and verified with testing
2. Significant energy savings on a national basis
3. Costs that can be recovered (cost-effective)

NOTE: EPA will consider user behavior a significant issue for many attachment products.

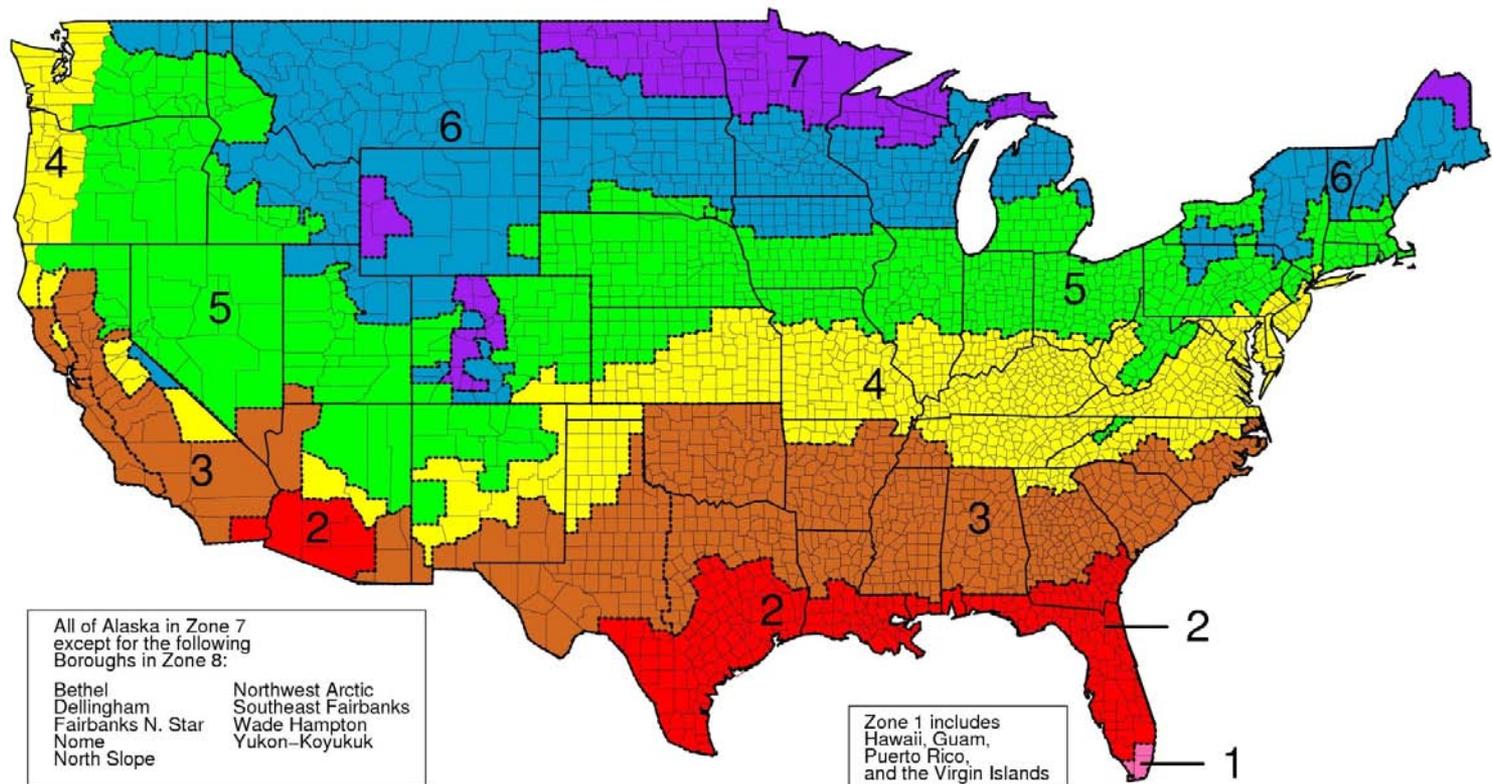
Can energy savings be measured and verified with testing?

- **Understand product energy saving performance**
 - Interaction with base product?
- **Determine what to measure on product**
 - SHGC or special SHGC? Emissivity? U-factor vs R-value? Durability?
- **Develop standard tests**
- **Understand market, baseline, and typical lifetime**
- **Understand typical user behavior**
- **Product certification and verification**
- **Climate location performance...**

Major Issues



Significant energy savings on a national basis?



Major Issues



Can costs that can be recovered?

Or....Are the products cost-effective within their lifetime?

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What can be done right now?



- **Understand the market, baseline, and costs**
- **Understand user behavior**
- **Understand energy performance**
- **Measure and certify some aspects of performance**
- **Develop guidelines on how to save energy using this knowledge**
- **Promote guidance to the public**

ENERGY STAR Labeling?



EPA will consider each attachment category (type) on its own merit for the ENERGY STAR Program based on research and analysis that support the guiding principles of the program.

ENERGY STAR



Thank you