Builders Hardware Inc.

Memo

RE: The 2014 Florida Building Code 5th Edition- Energy Conservation

What you need to know:

- BHI takes the Florida Building Code very seriously.
- BHI makes every effort to comply and to assist our customers in regulatory compliance.

BHI manufactures and sells many different types of hinged side-swing door systems that meet various Florida building code requirements for Structural, Accessibility and Thermal ratings.

Following Florida's July 1st 2015 adoption of the ICC energy conservation regulations incorporated into its code for thermal performance-- it is vital that our customers know at the time of ordering from BHI, which of the specific requirements their customers will need to meet in order to be in compliance with all aspects of the new building code.

With proper information, the BHI sales team can educate the customer in the purchase of products and door systems that comply with all regulatory requirements.

BHI and its suppliers of major fenestration components have made it a major focus and joint effort to comply with the newly implemented 2014 Florida Building Code - 5th edition Energy Conservation.

(BHI does not warrant the suitability of any product for any specific use).

Regarding Structural code compliance, BHI remains in an excellent position!

Customers that purchase Pre-hung doors:

BHI will continue to supply structural data with proper labeling on the door units we manufacture. Additionally, we will begin adding labels to each door unit showing Energy Performance Levels.

Labels will show the Solar Heat Gain Coefficient (SHGC) & U-Factors.

There will be at least TWO energy performance labels per door.

- One permanent label attached to the hinge side of the door slab.

- One temporary label which will be attached to the face of the door.

Labels will have Certified Products Directory (CPD) numbers. These are the certified numbers listed in the Certified Products Directory of the National Fenestration Rating Council (NFRC).

These CPD numbers listed under BHI are also listed with our third party quality assurance provider for thermal quality assurance compliance; National Accreditation Management Institute (NAMI).

Conclusion:

- **For customers purchasing BHI manufactured door units, the BHI sales team will gladly assist customers with any thermal code data they may need.**

- **BHI is already providing one permanent structural and energy compliance label, along with required temporary thermal label to all BHI door units showing energy performance ratings.**

Customers that purchase door components and

Pre-hang their own door systems:

BHI will gladly assist customers who pre-hang Plastpro doors and ODL glass. We will arrange for the customer to be directed to the proper channels in order to comply with the energy portion of the code.

Those customers also should consider labeling all door units with the proper data that proves energy performance levels of their systems.

If they do not label door units with energy performance levels then they must use the defaults provided from table R303.1.3 (1) and table R303.1.3 (2) R303.1 (3).

These default numbers may in fact be much higher than what is needed to meet the code for specific job applications.

There are also exemptions under the Prescriptive requirements method of compliance that allows one glazed fenestration per dwelling unit of up to 15 square feet "of glazed fenestration" to be exempt from the U-factor and SHGC requirements R402.1.(1), and also one side-hinged opaque door assembly up to 24 square feet to be exempt from U-factors-(Section R402.1.(.3 & .4))

Steps to comply

Step 1.

If a customer is assembling Plastpro doors with ODL glass, they may use the customer form provided with this memo to get assistance. If they purchase other manufacturer brands of doors, the customer will need to reach out to the supplier or manufacturer of those brands (doors) specifically.

Step 2.

The customer will need to complete the BHI energy assistance form and return it to BHI Attn: Jim Davis (jdavis@bhitampa.com). BHI will keep a record of all customers that sign up and make sure they get the attention they need. BHI will handle all the required follow up and tracking for this process.

From this point, the BHI office team will give you directions once you have signed up using the Energy Assistance form. There are 4 more steps from this point. Please contact BHI.

HELPFUL INFO

To find a copy of the Florida Building Code

Go to www.floridabuilding.org. Click on Florida Building Code tab. Then click on the 5th edition 2014 building code tab. That will immediately take you to the ICC (International Code Council website. Then click on the green 3rd to the right Energy Conservation 5th edition 2014 building code. Chapter 4 is the place in the code to focus on fenestration products.

Definitions & easy explanations:

Energy portion of the 2014 Fl Building Code is simply called =**"the Code"**

NFRC (National Fenestration Rating Counsel) A non for profit qualifying agency.

AAMA (American Architectural Manufacturers Association)

NAMI (National Accreditation Management Institute)

NOPC (Notice of Product Certification)

CPD (Certified Products Directory)

NPC (Nanya -Plaspro -Companies)

SHGC (Solar Heat Gain Coefficient)

VT (Visible Transmittance)

AL (Air Leakage)

Definitions of and items listed on labeling;

- U-Factor measures how well a product prevents heat from escaping a home or building. U-Factor values generally range from 0.25 to 1.25. The lower the U-Factor, the better a product is at keeping heat in.
- Solar Heat Gain Coefficient (SHGC) measures how well a product blocks heat from the sun. The lower the SHGC, the better a product is at blocking unwanted heat gain. SHGC is measured on a scale of 0 to 1; values typically range from 0.25 to 0.80
- Visible Transmittance (VT) measures how much light comes through a product. The higher the VT, the higher the potential for daylighting. VT is expressed as a number between 0 and 1.

- Air Leakage (AL) measures how much outside air come into a home or building through a product. AL rates typically fall in a range between 0.1 and 0.3. The lower the AL, the better a product is at keeping air out. AL is an optional rating, and manufacturers can choose not to include it on their labels.
- Condensation Resistance measures how well a product resists the formation of condensation. CR is expressed as a number between 1 and 100. The higher the number, the better a product is able to resist condensation.
- ENERGY STAR qualification is based on U-Factor and SHGC ratings only.

Compliance to the energy code;

To comply with the Energy Performance as written in the latest version of the 2014 Florida Building code now called "the Code"

Showing official "Energy Performance Levels (EPL)" for all door units is required by law or they will be given a default.

This includes all fenestration products-

(Windows, sliding doors, patio doors & and Hinge side swing doors.

All fenestration suppliers / manufacturers of Systems must show performance by qualified testing agencies and label product in accordance with "The NFRC" or through AAMA standards.

This includes ALL of our customers that pre hang doors.

There are other entities that offer services of testing and qualifying door systems, but we can only use NFRC because BHI and customers that meet criteria will now be an off-site manufacturer under the Plastpro brand and name.

Plastpro is licensing BHI and certain approved customers who sign up to manufacture under their reports through the NFRC in the Plastpro name.

ALL thermal testing that will be used is owned by Plastpro and listed on the NFRC site and qualified by third party entity NAMI.

I trust that you will find this information helpful.

Jesse Godwin

Builders Hardware, Inc