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BUILDING PERFORMANCE CONSULTANTS

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Calcs-News

Building Science Updates

Dear Dina,

The field of Building Performance is ever-growing, and we have many upcoming changes within the next month. Our team here at Calcs-Plus wants to keep everyone educated. Take a look at what we have this issue!!

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION **Residential Component Prescriptive Method B FORM 402-2010 (Short Form)**

There will be many changes coming March 15th to the Energy Efficiency Code. As in the past, a "Short Form" is available to use for ease of permitting. However, that Short Form is **PRESCRIPTIVE** by design, and this article will address the requirements of that form.

In the new Short Form 402-2010, each component present in the "As Proposed" home must **meet or exceed** each of the applicable performance criteria in order to comply with this code using this prescriptive method.

Windows and doors qualifying as glazed fenestration areas must comply with both the maximum **U-Factor of .65**, the

maximum **SHGC (Solar Heat Gain Coefficient) value of .30**, and have a **maximum total window area equal to or less than 20% of the conditioned floor area (CFA)**.
Exception: Additions of 600 square feet or less may have a maximum glass to CFA of 50 percent.

Exterior and Adjacent **Frame walls** must have an insulation R-Value of **R-13**.

Mass **block walls** must have an system assembly R-Value of **7.8**.

How Can you achieve that value? The system wall value is the sum of 3/4" foil faced rigid board with the value of R-5 plus additional R-Value calculated when the aluminum foil surface is installed next to a non-ventilated 3/4" air space. (R-value 2.8). All values from the ASHRAE Fundamentals Handbook.

Ceilings must have insulation with a value of **R-30**. Floors over unconditioned space must have insulation with a value **R-13**.

Air distribution systems are **NOT ALLOWED** in unconditioned space.

Exception: Ducts installed onto an existing air distribution system as part of an addition or renovation, ducts must have a minimum value of R-6.

Ducts and AHU shall be installed substantially leak free and **MUST** be tested by a Class 1 BERS rater.

Short Form Calculations should be completed before quotes, bids or material orders are placed. Look to Calcs-Plus as your Code Compliance resource.

We hope this information proves to be helpful. We will continue to keep you up-to-date with any changes in our field.

Sincerely,



Your Source for Integrity in Building Science

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