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MORE TO HELP YOU BE PREPARED!!!

After the new code goes into effect on 3/15/12, New Homes must comply with the following MANDATORY fenestration requirements. Using Single pane glass throughout the home will NOT meet code requirements.

What does this mean?

The weighted average of the SHGC value will be calculated by the software program, it is not something that can be calculated manually.

Theoretically, using a mixture of windows with Low-e glass

(thus a low SHGC value) on the South and West windows, and Single pane windows (or win-

dows with higher SHGC values) on North and East sides will help the weighted average. The weighted average is calculated according to the area of glass and its orientation, so the suggestion above is a guideline, but may not work in every situation.

(For example, a situation where there is a larger area of glass with a high SHGC value on North and East sides, which will outweigh the lesser area of glass with the low SHGC on the other sides, thus not meeting the requirements of the program.)

Keep in mind: lower SHGC values are better!

Note also the exception if the builder opts to use an area-weighted average overhang depth of 4 feet or greater for the entire home.

402.5 Maximum fenestration SHGC (Mandatory). The area-weighted average maximum fenestration SHGC permitted using trade-offs from Section 405 shall be 0.50.

Exception: If the window area-weighted average overhang depth for the entire dwelling unit is 4.0 feet or greater, the area-weighted average maximum SHGC requirement of 0.50 does not need to be met.

New Plans Requirements...

103.2.2 Details required. Construction documents shall be drawn to scale upon suitable material. Electronic media documents are permitted to be submitted when approved by the code official. Construction documents shall be of sufficient clarity to indicate the location, nature and extent of the work proposed, and show in sufficient detail pertinent data and features of the building, systems and equipment as herein governed. Details shall include, but are not limited to, as applicable, insulation materials and their R-values; fenestration U-factors and SHGCs; area-weighted U-factor and SHGC calculations; mechanical system design criteria; mechanical and service water heating system and equipment types, sizes and efficiencies; economizer description; equipment and systems controls; fan motor horsepower (hp) and controls; duct sealing, duct and pipe insulation and location; lighting fixture schedule with wattage and control narrative; and air sealing details.

Next Issue's Topic: How to Get your Load Calc required for Replaced Equipment