

## GG302-14

### 1003.2.8 (New), 605.3 (New)

**Proponent:** Amy Dickie, Global Cool Cities Alliance, representing Global Cool Cities Alliance (amy@globalcoolcities.org)

**Add new text as follows:**

**605.3 Roof recovering and roof replacement.** Roof products used to recover or replace roofs on an existing building where the roof slope is less than two units vertical in 12 units horizontal (17-percent slope) shall be in accordance with Section 1003.2.8.

**1003.2.8 Roof solar reflectance and thermal emittance.** Roof products used to recover or replace roofs on an existing building with roof slope of less than two units vertical in 12 units horizontal shall be in accordance with Section C402.3 of the *International Energy Conservation Code*.

**Reason:** This proposal adds a section to Ch 10 to require that roof products used for recovering and replacing roofs adhere to the solar reflectance and thermal emittance requirements in the International Energy Conservation Code (IECC).

There is evidence that installing cool roofs on low-sloped roofs in climate zones 1 through 3 provide significant net energy savings and net energy cost savings, as is evidence by their inclusion in IECC and ASHRAE 90.1. Additionally, reflective roofs provide benefits of reducing the urban heat island. These benefits are not currently captured for existing buildings. These proposed modifications to Chapter 10 ensure that when existing buildings with low-sloped roofs in climate zones 1 through 3 have an opportunity to recover or replace roofs, that they realize the multiple benefits of increased roof reflectivity.

This proposal also adds a new section (Section 605.3), which reference a new section of Chapter 10, so that roof recovering and roof replacements are required to adopt reflective roofs.

**Cost Impact:** Will not increase the cost of construction

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