

GEW83-14

605.3 (New)

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Add new text as follows:

605.3 Roof surfaces. Roof surfaces of buildings located in climate zones 4a and 4b shall comply with Section C402.2.1.1 of the *International Energy Conservation Code*.

Reason: This proposal adds a section to Ch 6 which requires that low-sloped roofs on commercial buildings in climate zones 4a and 4b comply with the reflectivity requirements provided by the International Energy Conservation Code (IECC).

IgCC is a code which provides building construction and operations requirements which should be more sustainable than those provided by the IECC, IBC, IMC, or IPC alone. Therefore, the roof surfaces requirements and should go above and beyond those required in the IECC and should take into account the urban heat island reduction benefits provided by reflective roofs. Reflective roofs have been proven to provide a number of benefits in climate zones 4a and 4b.

·Switching to reflective roofs across climate zones 4a and 4b generates net energy savings and net energy cost savings.

·Reflective roofs help reduce peak load in IECC climate zones 4a and 4b.

·The benefits of reflective roofs have been proven beneficial in major metropolitan areas within climate zones 4a and 4b. Several major cities in climate zone 4 have adopted the use of reflective roofs on commercial, low-sloped roofs into law.

·Reflective roofs provide a cooler environment for roof equipment, thus enabling better performance for rooftop equipment.

·In many cases roof construction can have a cool roof option with zero price premium. Some reflective roofs have small price premiums.

·Reflective roofs have many important co-benefits. For example, a large number of reflective roofs will reduce the summer air temperature in cities and therefore improve resiliency of urban populations to heat events.

Cost Impact: Will not increase the cost of construction

Analysis: The International Energy Conservation Code section C402.2.1.1 referenced in the text of this proposal are section numbers for the 2012 Edition. Due to significant changes approved for the 2015 IECC, the section number for the 2015 Editions will be C402.3.

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