

# GG211-14

## 302.1, 505.3 (New), 505.3.1 (New)

**Proponent:** Robert Eugene, UL LLC, representing UL LLC (robert.eugene@ul.com)

**Revise as follows:**

**302.1 Requirements determined by the jurisdiction.** The jurisdiction shall indicate the following information in Table 302.1 for inclusion in its code adopting ordinance:

1. The jurisdiction shall indicate whether requirements for residential buildings, as indicated in Exception 1 to Section 101.3, are applicable by selecting “Yes” or “No” in Table 302.1. Where “Yes” is selected, the provisions of ICC 700 shall apply and the remainder of this code shall not apply.
2. Where the jurisdiction requires enhanced energy performance for buildings designed on a performance basis, the jurisdiction shall indicate a zEPI of 46 or less in Table 302.1 for each occupancy required to have enhanced energy performance.
3. Where “Yes” or “No” boxes are provided, the jurisdiction shall check the box to indicate “Yes” where that section is to be enforced as a mandatory requirement in the jurisdiction, or “No” where that section is not to be enforced as a mandatory requirement in the jurisdiction.

**TABLE 302.1  
REQUIREMENTS DETERMINED BY THE JURISDICTION**

Section	Section Title or Description and Directives	Jurisdictional Requirements
<b>CHAPTER 5. MATERIAL RESOURCE CONSERVATION AND EFFICIENCY</b>		
503.1	Minimum percentage of waste material diverted from landfills	<input type="checkbox"/> 50% <input type="checkbox"/> 65% <input type="checkbox"/> 75%
505.3	<u>Hail impact resistance roof coverings</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No

*(Portions of table not shown remain unchanged.)*

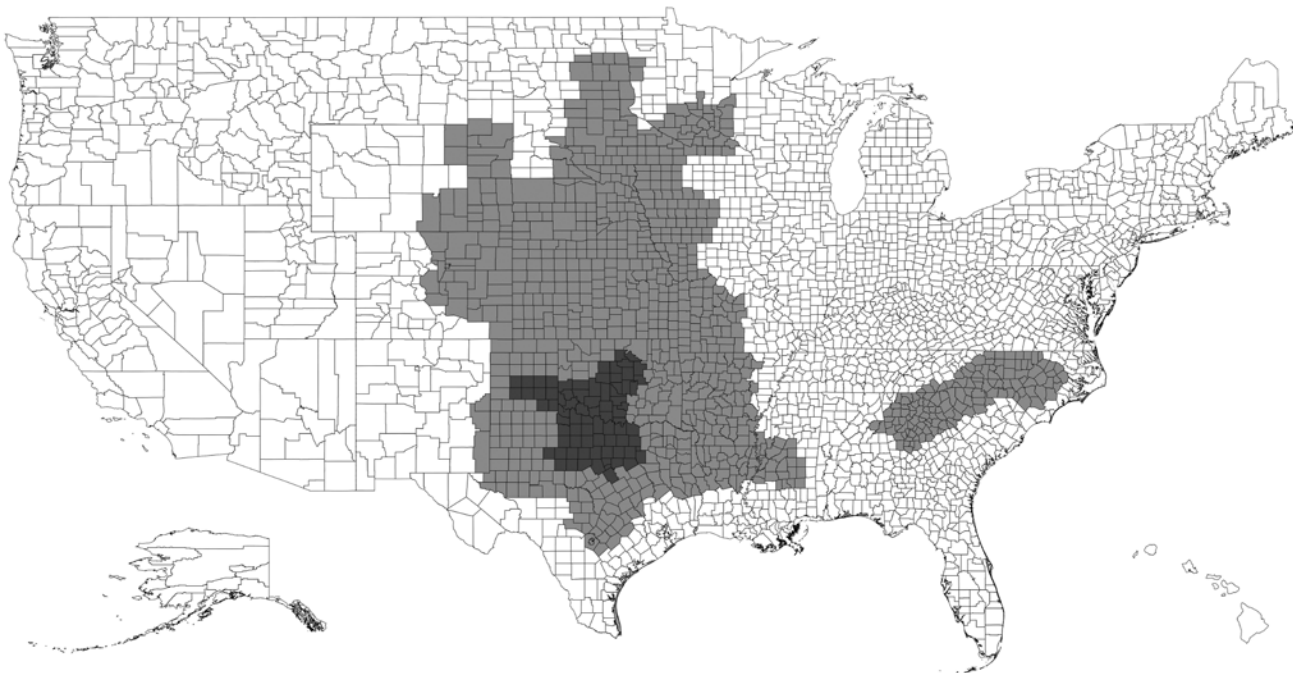
**Add new text as follows:**

**505.3 Roof coverings subject to hail exposure.** Where indicated by Table 302.1, roof coverings used in regions where hail exposure is moderate or severe, as determined in accordance with Section 505.3.1 and Figure 505.3 shall be tested, listed, and labeled as Class 3 or Class 4 respectively in accordance with UL2218.

**505.3.1 Hail exposure regions.** Hail Exposure regions in Figure 505.3.1 shall be as follows:

1. Moderate - One or more hail days with hail diameters greater than 1.5 in (38 mm) in a 20 year period.
2. Severe - One or more hail days with hail diameters greater than 2.0 in (50 mm) in a 20 year period.

■ Moderate Size (1.5 - 5.0 in.): Minimum 1 hail day/20 years  
■ Severe Size (2.0 - 5.0 in.): Minimum 1 hail day/20 years



**FIGURE 505.3.1**  
**HAIL EXPOSURE MAP**

**Add new standard(s) as follows:**

**UL**

2218-2010 Impact Resistance of Prepared Roof Covering Materials, with revisions through May 1, 2012

**Reason:** Section 101.3 of the *International Green Construction Code* (IgCC) states its intent “is to safeguard the environment, public health, safety and general welfare through the establishment of requirements to reduce the negative potential impacts and increase the positive potential impacts of the built environment on the natural environment and *building* occupants”. To provide for increased safety to occupants and minimize the negative impact of the built environment from hail requires buildings to be built to more than the minimum requirements of the *International Building Code* or the *International Residential Code*. To achieve this objective, A jurisdictional option for impact resistant roof coverings will help in achieving building material conservation. Use of more resilient materials adds to the longevity and durability of the building, which reduces the amount of materials in landfills.

A jurisdictional option is added to Table 302.1; a new section 505.3 is added; and, UL 2218 is added to Chapter 12.

***New Figure 505.3 is from the 2009 edition of the IRC, Figure R903.5.***

**Cost Impact:** Will increase the cost of construction. First cost would increase. In many cases, replacement costs can be avoided, netting a decrease in life cycle cost.

**Analysis:** A review of the standard proposed for inclusion in the code, UL 2218-10 (with revisions through May 1, 2012) with regard to the ICC criteria for referenced standards (Section 3.6 of CP#28), will be posted on the ICC website on or before April 1, 2014.

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