

# GG194-14

## 202 (New), 505.2, 505.2.6 (New), 505.2.6.1 (New)

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**Add new definitions follows:**

### SECTION 202 DEFINITIONS

**Environmental Product Declaration.** A document that shows a product's potential environmental impact by providing quantified data.

**Revise as follows:**

**505.2 Material selection.** Not less than ~~55~~75 percent of the total building materials used in the project, based on mass, volume or cost, shall comply with Section 505.2.1, 505.2.2, 505.2.3, 505.2.4 or 505.2.5. Where a material complies with more than one section, the material value shall be multiplied by the number of sections that it complies with. The percentage shall be further adjusted in accordance with Section 505.2.6. The value of total building material mass, volume or cost shall remain constant regardless of whether materials are tabulated in more than one section.

**505.2.6 Environmental Product Declarations.** For the purposes of Section 505.2, the percentages of building materials with environmental product declarations in accordance with Section 505.2.6.1 shall be multiplied by 1.5.

**505.2.6.1 Environmental Product Declarations Compliance.** Environmental product declarations shall comply with ISO 21930 and ISO 14025, and shall include at least the production stage of the life cycle for the building products or cradle-to-gate. Life cycle assessment data used for environmental product declarations shall be in accordance with the principles of ISO 14040 and ISO 14044.

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

ISO 14025-2006 Environmental labels and declarations—Type III environmental declarations—Principles and procedures

ISO 14040-2006 Environmental management-Life cycle assessment—Principles and framework

ISO 21930-2007 Sustainability in building construction—Environmental declaration of building products

**Reason:** Environmental Product Declarations are an internationally recognized tool for disclosing the potential environmental impacts of products. When properly implemented they become essential to the true effectiveness of many provisions in the IgCC. The goal of this proposed change is to encourage the use of EPDs.

This makes no change to the application of Section 505.2 except to take the percentages of materials complying with any particular subsection at a value of 1.5 times the actual percentage. For instance, if 50% of materials are recycled in accordance with 505.2.2, they are taken at 75% (50% x 1.5) if the recycled materials have EPDs in accordance with the listed standards. By structuring the extra credit in this way, materials with EPDs must still qualify under the current code sections (for used, recycled, recyclable, bio-based, or indigenous materials) to be considered.

Because of the increased credit given, it seems appropriate to increase the required percentage of complying materials from 55% to 75%.

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

**Analysis:** A review of the standards proposed for inclusion in the code, ISO 14025:2006, 14040:2006 and 21930:2007 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.

