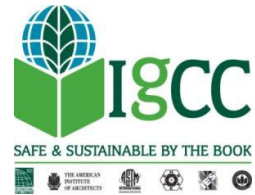


City of Scottsdale

2021 International Green Construction Code (IgCC)

Reduced Impact Materials Checklist



rev. 10-25-24

Use this checklist is to identify reduced impact materials in accordance with Section 901.4.1 of the amended International Green Construction Code (IgCC). Section 901.4.1 reads as follows:

901.4.1 Reduced impact materials. The *building project* shall comply with any two of the following options. Calculations shall only include materials *permanently installed* in the project. Components of mechanical, electrical, plumbing, and fire safety systems and transportation devices can be included when determining compliance.

- 901.4.1.1 Recycled content and salvaged material content.** The sum of the *recycled content* and *salvaged material* content shall constitute a minimum of 10% (based on estimated cost), of the total materials in the *building project*.

901.4.1.1.1 Recycled content. The *recycled content* of a material shall be the postconsumer recycled content plus one-half of the preconsumer recycled content, determined by weight (mass). The recycled fraction of the material in a product or an assembly shall then be multiplied by the cost of the product or assembly to determine its contribution to the 10% requirement.

Postconsumer recycled content refers to materials generated by households or commercial, industrial or institutional facilities that have been recovered after the use phase. Pre-consumer recycled content on the other hand consists of waste material resulting from a manufacturing or industrial process that was used to create a new material or product.

The annual average industry values, by country of production, for the *recycled content* of steel products manufactured in basic oxygen furnaces and electric arc furnaces shall be permitted to be used as the *recycled content* of the steel.

- 901.4.1.2 Regional materials.** A minimum of 15% (based on estimated cost) of the total materials or products used shall be regionally extracted/harvested/recovered or manufactured within a radius of 500 miles of the project site. If only a fraction of a product or material is extracted/harvested/recovered or manufactured locally, then only that percentage (by weight) shall contribute to the regional value.

Exception: For building materials or products shipped in part by rail or water, the total distance to the project shall be determined by weighted average, whereby that portion of the distance shipped by rail or water shall be multiplied by 0.25 and added to that portion not shipped by rail or water, provided that the total does not exceed 500 miles.

- 901.4.1.3 Biobased products.** A minimum of 5% (based on estimated cost) of building materials used, shall be *biobased products*.

901.4.1.3.1 Wood building components. This section ensures that wood products used in buildings are sourced from sustainably managed forests. Sustainable forestry describes forest policies, practices and market mechanisms designed to enhance the ecological, economic and social conditions of forest lands. Acceptable forest certification programs include the Sustainable Forest Initiative (SFI), American Tree Farm System (ATFS), Canadian Standards Association (CSA), and the Forest Stewardship Council (FSC). In accordance with sustainable forestry programs, chain of custody is an accounting process that tracks wood fiber through the different stages of production from harvesting to manufacturer and to the end user.

Wood building components include but not limited to structural framing, sheathing, flooring, subflooring, wood window sash and frames, doors, and architectural millwork. All materials complying with this requirement shall contain not less than 60% certified wood content tracked through a chain of custody process, by physical separation or percentage-based approaches.

- 901.4.1.4 Multiple-Attribute Environmental Product Declarations (EPDs).** A minimum of ten different building products shall be specified with industry-wide or product-specific EPDs. An EPD is a disclosure of environmental impacts of a product over its lifetime.

901.4.1.4.1 Industry-wide declaration. Industry-wide EPDs shall be identified in the table below for each selected building product.

901.4.1.4.2 Product-specific declaration. Product-specific EPD shall be identified below and submitted for each selected building product. The product-specific declaration shall be manufacturer-specific for a product category. Each product complying with this section shall be counted as two products for compliance with Section 901.4.1.4.

Please use the following table to select applicable EPDs for your project:

Recognized Industry-Wide EPDs (Check applicable products below)	Product-Specific EPDs (Add applicable products with EPDs below)
<input type="checkbox"/> Ready mixed concrete	<input type="checkbox"/>
<input type="checkbox"/> Steel reinforcement bar	<input type="checkbox"/>
<input type="checkbox"/> Concrete masonry units	<input type="checkbox"/>
<input type="checkbox"/> Steel framing	<input type="checkbox"/>
<input type="checkbox"/> Steel floor deck	<input type="checkbox"/>
<input type="checkbox"/> Steel roof deck	<input type="checkbox"/>
<input type="checkbox"/> Open web steel joists	<input type="checkbox"/>
<input type="checkbox"/> Wood I-joists	<input type="checkbox"/>
<input type="checkbox"/> Softwood lumber	<input type="checkbox"/>
<input type="checkbox"/> Oriented strand board	<input type="checkbox"/>
<input type="checkbox"/> Resilient flooring (VCT, LVT, SVT)	<input type="checkbox"/>
Add other applicable EPDs for this project	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>