

City of Scottsdale  
 Planning and Development  
**IGCC Worksheet - Reduced Impact Materials**  
 2021 International Green Construction Code (IgCC)

Project Name \_\_\_\_\_

Date \_\_\_\_\_

Completed by \_\_\_\_\_ Firm Name \_\_\_\_\_

**IgCC Section 901.4.1** requires each building project to comply with any two of the following: 1) Recycled Content (min. 10% of total building materials used based on costs); 2) Regional Materials (min. 15% of total building materials based on costs); 3) Biobased Materials (min. 5% of total building materials based on costs); or 4) Multiple-attribute Product Declaration (EPD) or certification for a minimum of 10 different products.

Material or Product	Building Element/Component	Material Properties (check <input type="checkbox"/> where applicable)				Manufacturer (where applicable)	City/State	Miles from Site	Cost	% of Total Material Cost
		Recycl Content	Regional	Bio Based	EPDs					
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
<b>Qualifying Building Elements (1 thru 10 above)</b>										
<b>Non-Qualifying Building Elements (Other building elements not included above)</b>										
<b>Total Building Elements (Qualifying and Non-Qualifying)</b>										
<b>Total Percentage of Qualifying Building Elements (Qualifying ÷ Total Building Elements)</b>										

**IGCC Section 901.4.1 - Reduced Impact Materials.** The building project shall comply with any two of the following: Sections 901.4.1.1, 901.4.1.2, 901.4.1.3, or 901.4.1.4. Calculations shall only include materials permanently installed in the project.

**901.4.1.1 Recycled content and salvaged material content.** The sum of the recycled content and the salvaged material content shall constitute a minimum of 10%, based on 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.

**901.4.1.2 Regional materials.** A minimum of 15% of building materials or products used, based on cost, 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.

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

- a. Comply with the minimum biobased contents of the USDA's BioPreferred Program;
- b. Contain the "USDA Certified Biobased Product" label; or
- c. Be composed of solid wood, engineered wood, bamboo, wool, cotton, cork, agricultural fibers, or other materials with at least 50% biobased content.

**901.4.1.3.1 Wood building components.** Wood building components used to comply with this requirement shall contain not less than 60% certified wood content tracked through a chain of custody process, either by physical separation or percentage-based approaches, or wood that qualifies as a salvaged material. Certified wood content documentation shall be provided by sources certified through a forest certification system with principles, criteria, and standards developed using ISO/IEC Guide 59 or the WTO Technical Barriers to Trade. Wood building components from a vendor shall be permitted to comply when the annual average amount of certified wood products purchased by the vendor, for which they have chain of custody verification not older than two years, is 60% or greater of their total annual wood products purchased.

**901.4.1.4 Multiple-attribute product declaration or certification.** A minimum of ten different products in the building project shall comply with one of the following subsections. Declarations, reports, and assessments shall be submitted to the authority having jurisdiction (AHJ) and shall contain documentation of the critical peer review by an independent third party, results from the review, the reviewer's name, company name, contact information, and date of the review or certification.

**901.4.1.4.1 Industry-wide declaration.** A Type III industry-wide environmental product declaration (EPD) shall be submitted for each product. Where the program operator explicitly recognizes the EPD as fully representative of the product group on a national level, it is considered industry-wide. In the case where an industry-wide EPD only represents only a subset of an industry group, as opposed to being industry-wide, the manufacturer shall be explicitly recognized as a participant by the EPD operator. All EPD shall be consistent with ISO Standards 14025 and 21930, with at least a cradle-to-gate scope. Each product complying with this section shall be counted as one product for compliance with Section 901.4.1.4.

**901.4.1.4.2 Product-specific declaration.** A product-specific Type III EPD shall be submitted for each product. The product-specific declaration shall be manufacturer-specific for a product family. Type III EPDs shall be certified as complying with the cradle-to-gate requirements in accordance with ISO Standards 14025 & 21930. Each product complying with this section shall be counted as two products for compliance with Section 901.4.1.4.

**901.4.1.4.3 Third-party multiattribute certification.** See IgCC code book.

**901.4.1.4.4 Product life cycle.** See IgCC code book.