

IGCC Worksheet – Reduced Impact Materials International Green Construction Code (IgCC)

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Project Name: _____

Project Address: _____

Completed By: _____

Firm Name: _____

In accordance with Section 901.4.1 of the IgCC (Prescriptive Option), the building project shall have materials that comply with any two of the following: **1) Recycled/ Salvaged Content** (a minimum of 10% of total building materials used based on cost), **2) Regional Materials** (a minimum of 15% of total building materials used based on cost), **3) Biobased Products** (a minimum of 5% of total building materials used based on cost), or **4) Multiple-Attribute Product Declaration or Certification with Environmental Product Declaration (EPD)** (for a minimum of 10 different products). Use the following Table to document material properties and tabulate costs for the building project. See next page for description of material properties.

Material or Product	Building Element/ Component or Location	Material Properties (Check ✓ where applicable)				Manufacturer (where applicable)	City/State	Miles from Site	Cost	% of Total Material Cost
		Recycled Content	Regional	Biobased	EPD's					
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
Qualifying Building Elements (1 thru 10 above)										
Non-Qualifying Building Elements (Other building elements not included above)										
Total Building Elements (Qualifying and Non-Qualifying)										
Total Percentage of Qualifying Building Elements (Qualifying ÷ Total Building Elements)										

Reduced Impact Materials per IgCC Section 901.4.1:

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. A value of 45% of the total construction cost shall be permitted to be used in lieu of the actual total cost of materials.

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.

901.4.1.1.2 Salvaged Material Content. The salvaged material content shall be determined based on the actual cost of the salvaged material or the cost of a comparable alternative component material.

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. (See Exception for building materials or products shipped in part by rail or water.)

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 biobased 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 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 installed in the building project at the time of issuance of certificate of occupancy 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 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 program 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 EPD's shall be certified as complying with the goal and scope for the cradle-to-gate requirements in accordance with ISO Standards 14025 and 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. A material-specific assessment shall be submitted for each product in accordance with one of the following standards, where applicable. The assessment shall be certified as meeting the minimum performance level specified in each standard. Each product complying with this section shall be counted as two products for compliance with Section 901.4.1.4. (ANSI/BIFMA e3, NSF/ANSI 140, NSF/ANSI 332, NSF/ANSI 336, NSF/ANSI 342, NSF/ANSI 347, NSC 373, ANSI A138.1, UL 100 or UL102)

901.4.1.4.4 Product Life Cycle. A report by a third-party that has critically reviewed the life-cycle assessment (LCA) of a product, based on ISO Standards 14040 and 14044, shall be submitted. The report shall demonstrate compliance with the goal and scope for the cradle-to-gate requirements. Each product complying with this section shall be counted as two products for compliance with Section 901.4.1.4.