

Byun Partners  
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**COMMON PITFALLS  
MANUFACTURERS  
MAKE WHEN CREATING  
PRODUCT  
LEED CONTRIBUTION  
DOCUMENTS**

**BY**

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## Materials and Resources

### MR Credit 4: Recycled Content (1 to 2 points)

**Requirements:** Use materials with recycled content<sup>1</sup> such that the sum of post-consumer recycled content plus 1/2 of the pre-consumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. The minimum percentage materials recycled for each point threshold is as follows:

Recycled Content	Points
10%	1 point
20%	2 point

The recycled content value of a material assembly is determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.

#### What the manufacturers has to show:

**Case 1:** If the product is composed of single component.

Example: For linoleum flooring, manufacturers need to show only recycled content of linoleum flooring material.

Manufacturer needs to show both Post-Consumer and Pre-Consumer recycled content.

**Case 2:** If the product is composed of multiple components.

Example: For aluminum windows, manufacturers need to show recycled content of both aluminum and glass material.

When 2 or more components are involved, need to calculate weighted value of each.

**Good Example (almost):** Shows both materials and identifies what kind of recycle (in this case post-consumer type). Need to show how what is the percentage of weight glass and frame is per window.

**Glass – 2%**

Approximate post-consumer recycled content, by weight, of purchased raw glass is 2%.

**Aluminum Extrusions (Entrances) – 30%**

Approximate post-consumer recycled content, by weight, of purchased aluminum extrusions and castings is 30%.

**MR Credit 5: Regional Materials (1 to 2 points)**

**Requirements:**

Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% or 20%, based on cost, of the total materials value. If only a fraction of a product or material is extracted, harvested, or recovered and manufactured locally, then only that percentage (by weight) can contribute to the regional value. The minimum percentage regional materials for each point threshold is as follows:

Regional Materials	Points
10%	1 point
20%	2 point

Mechanical, electrical and plumbing components and specialty items such as elevators and equipment must not be included in this calculation. Include only materials permanently installed in the project. Furniture may be included if it is included consistently in MR Credit 3: Materials Reuse through MR Credit 7: Certified Wood.

**What the manufacturers has to show:** Both location of manufacturing and extraction relative to the project site. Let the Architect figure out from there. Critical point is both manufacturing and extraction has to be within 500 miles from the project site. Can you guess when this credit is not earned when manufacturing is within 500 miles from the project site and extraction is 2 miles from the manufacturing facility? Do a geometry where is the case.

**Good Example:**

*Allied Concrete Products, LLC, certifies regional materials percentages (by weight) as follows: Allied Concrete Products, LLC, Chesapeake, VA, (800) 564-7300, seventy-eight percent (78%); Allied Concrete Products, LLC, Richmond, VA, (804) 279-7501, one-hundred percent (100%); Allied Concrete, Charlottesville, VA, (434) 296-7181, one-hundred percent (100%); ValleyBlox, Harrisonburg, VA, (540) 434-6725, one-hundred percent (100%).]*

**MR Credit 7: Certified Wood (1 point)**

**Requirements:**

Use a minimum of 50% (based on cost) of wood-based materials and products that are certified in accordance with the Forest Stewardship Council's principles and criteria, for wood building components. These components include at a minimum, structural framing and general dimensional framing, flooring, sub-flooring, wood doors and finishes. Include only materials permanently installed in the project. Wood products purchased for temporary use on the project (e.g., formwork, bracing, scaffolding, sidewalk protection, and guard rails) may be included in the calculation at the project team's discretion. If any such materials are included, all such materials must be included in the calculation. If such materials are purchased for use on multiple projects, the applicant may include these materials for only one project, at its discretion. Furniture may be included if it is included consistently in MR Credits 3, Materials Reuse, through MR Credit 7, Certified Wood.

**What the manufacturers has to show:**

Both FSC Certified and Chain of Custody (COC) number.

**Good Example:**

