S.T. Dana Building Renovation, LEED project #0326
Final Review Submission

IDc1.1, v2.1 – Exemplary MRc6, Rapidly Renewable Materials (1 point)
Review Status: Substitute new ID credit for denied IDcr1.1, v2.0 – Radiant Cooling System

Team Response:

We understand that the key to exemplary performance is a quantifiable environmental performance and a comprehensive approach.

The attached letter template demonstrates that we have used rapidly renewable materials and products for 12.61% of the total value of all building materials and products used in this project. This is more than double the minimum required to achieve MRc6, or 5%.

Where new materials were needed, our goal was to use green materials. This included rapidly renewable materials and recycled-content materials, as well as materials that will be more recyclable in the future. Rapidly renewable materials and products were used for more than 12% of the total value of all building materials and products. We achieved above the 10% threshold established by the MRc4.2 credit for recycled-content material; and this calculation includes the adjustments required by USGBC’s preliminary review. Many of the recycled content and rapidly renewable materials could be recycled when their current form is no longer useful.

Examples of how rapidly renewable materials were used in the project include the following.

- Cabinetry and ceiling panels constructed out of bio-composites (soyboard panels, sunflowerboard panels and wheatboard panels);
- Column covers constructed out of bamboo plywood;
- Bamboo and cork tile flooring in conference rooms;
- Linoleum flooring in lab and research spaces;
- Wool carpeting in offices and corridors;
- Linoleum tackboard surfaces used throughout classrooms and lab spaces;
- Natural coir entry mat systems.

Two of these products, cork flooring tile ($1700) and natural coir entry mats ($1475), were not included in the letter template as they were not necessary to demonstrate exemplary performance, but they are rapidly renewable products. All of these applications were highlighted in the design to demonstrate the school’s commitment to sustainable products and to promote their use in the future.

Although many of the recycled-content products look similar to products without recycled content, SNRE promotes the use of these products, as well as the rapidly renewable products, with an extensive signage and visual display program throughout the building, illustrating their application. The signage program is further detailed in IDcr1.2 Occupant & Public Education.

With this comprehensive approach and quantified environmental performance, the project has demonstrated exemplary performance in Rapidly Renewable Materials.

Response by: Carl Elefante, Maggie McInnis & Tina Roach, Quinn Evans | Architects
Date: 10 December 2004

Attachments: MRc6 letter template, dated 11-16-2004
MR Credit 6: Rapidly Renewable Materials

(Owner, Architect, Contractor or Responsible Party)

I, Maggie McInnis, AIA declare that rapidly renewable building materials and products (made from plants that are typically harvested within a ten-year or shorter cycle) were specified/used for 12.61% of the total value of all building materials and products used in the project.

<table>
<thead>
<tr>
<th>Product name</th>
<th>Vendor</th>
<th>Product Cost $</th>
<th>% Renewable</th>
<th>Rapidly renewable content information source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soyboard panels</td>
<td>Phoenix Biocomposites</td>
<td>31,617</td>
<td>100%</td>
<td>Product literature</td>
</tr>
<tr>
<td>Sunflowerboard panels</td>
<td>Phoenix Biocomposites</td>
<td>22,192</td>
<td>100%</td>
<td>Product literature</td>
</tr>
<tr>
<td>Wheatboard panels</td>
<td>Phoenix Biocomposites</td>
<td>16,896</td>
<td>100%</td>
<td>Product literature</td>
</tr>
<tr>
<td>Bamboo plywood</td>
<td>Arch Forest Products</td>
<td>30,799</td>
<td>100%</td>
<td>Product literature</td>
</tr>
<tr>
<td>Linoleum backboard</td>
<td>Forbo</td>
<td>8,655</td>
<td>100%</td>
<td>Product literature</td>
</tr>
<tr>
<td>Bamboo flooring</td>
<td>Mintex Bambtex</td>
<td>5,520</td>
<td>100%</td>
<td>Product literature</td>
</tr>
<tr>
<td>Linoleum flooring</td>
<td>Armstrong</td>
<td>43,425</td>
<td>100%</td>
<td>Product literature</td>
</tr>
<tr>
<td>Wool carpet</td>
<td>Godfrey Hirst</td>
<td>88,346</td>
<td>100%</td>
<td>Product literature</td>
</tr>
</tbody>
</table>

Product Cost Subtotal: $247,442

Total value of rapidly renewable products: $247,442

value+ of rapidly renewable building materials and products as a percentage of the cost of all project building materials: 12.61%

Points Documented: 1

Name: Maggie McInnis

Organization: Quinn Evans | Architects

Role in project: Architect

Signature: Maggie McInnis

Date: 11/16/2004