# How Armstrong Ceiling and Wall Solutions Contribute

The Living Building Challenge™ is the world’s most rigorous proven performance standard for buildings. People from around the world use this regenerative design framework to create spaces that, like a flower, give more than they take.

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<th>Petal</th>
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<th>Armstrong® Ceilings and Walls Contribution</th>
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| **HEALTH & HAPPINESS** | Creating environments that optimize physical and psychological health and well being | 07             | Civilized Environment                   | Intent: Every regularly occupied space must have operable windows that provide access to fresh air and daylight.  
Armstrong: High light reflectance ceilings enhance the benefits of indirect lighting by improving overall lighting uniformity, returning up to 90% of light back into the space, compared to 75% with standard ceilings.  
Refer to the performance selection to choose Armstrong High LR ceilings or walls.  
Specify Armstrong® TechZone® ceiling systems lighting partners and LED lighting as another option to meet this petal.  
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| **08**                 | Healthy Interior Environment                                           |                |                                         | Intent: To promote good indoor air quality, a project must create a Healthy Interior Environment Plan that explains how the project will achieve an exemplary indoor environment.  
Armstrong® ceilings and walls meet California Dept of Public Health (CDPH) Standard Method v1.1-2010 and VOC Certificates of Compliance are published as proof of meeting this standard.  
All mineral fiber and fiberglass ceilings and walls are UL Environment GreenGuard Gold certified. Our Plant based fiberglass ceilings, Optima® and Lyra®, are UL® GreenGuard Formaldehyde Free.  
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| **09**                 | Biophilic Environment                                                  |                |                                         | Intent: The project must be designed to include elements that nurture the innate human/nature connection.  
Armstrong Ceilings has a broad portfolio of design elements that contribute to enhancing a biophilic environment. From our natural wood looks in our WoodWorks® product line, to our unique look of our wood fiber, Tectum®.  
We also have the ability to add design in unique shapes, colors and graphics in our DESIGNFlex™ options.  
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| **MATERIALS**          | Endorsing Products that are safe for all species through time          | 10             | Red list                                | Intent: The project cannot contain any following Red List materials or chemicals.  
Armstrong® SUSTAIN® ceilings are free of any red list materials or chemicals (per LBC Red List 3.0). All SUSTAIN® products have Declare Living Building Challenge labels.  
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| **11**                 | Embodied Carbon Footprint                                             |                |                                         | Intent: The project must account for the total embodied carbon (tCO2e) impact from its construction through a one-time carbon offset from an approved carbon offset provider.  
Use Armstrong® third party-certified Product EPD or Embodied Energy (EE) for Embodied Carbon Footprint calculations. |

TechLine 877 276-7876  
armstrongceilings.com/commercial  

Living Building Challenge™ is a service mark of International Living Future Institute  
UL® is a registered trademark of UL LLC  

LIVING BUILDING CHALLENGE™ 3.1
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<td>MATERIALS (cont.)</td>
<td>Endorsing Products that are safe for all species through time</td>
<td>12</td>
<td>Responsible Industry</td>
<td>Intent: The project must advocate for the creation and adoption of third-party certified standards for sustainable resource extraction and fair labor practices. All projects must use, at a minimum, one Declare™ product for every 500 square meters of gross building area. All wood must be certified to Forest Stewardship Council (FSC). Armstrong® ceiling and wall products in the SUSTAIN® portfolio meet the requirements for both Part 1 and 2 of this feature. All products have HPDs, Declare™ Labels, and EPDs. All documents are publicly available on the ILFI and Armstrong Sustain web site for easy reference. Wood products have FSC options available.</td>
</tr>
<tr>
<td>13</td>
<td>Living Economy Sourcing</td>
<td></td>
<td></td>
<td>Intent: The project must incorporate place-based solutions and contribute to the expansion of a regional economy rooted in sustainable practices, products, and services. Armstrong Ceilings has the largest number of ceiling and suspension plant locations in North America. Contact Armstrong Techline to obtain the manufacture and extraction locations for the products on your project.</td>
</tr>
<tr>
<td>14</td>
<td>Net Positive Waste</td>
<td></td>
<td></td>
<td>Intent: The project team must strive to reduce or eliminate the production of waste during design, construction, operation, and end of life in order to conserve natural resources and to find ways to integrate waste back into either an industrial loop or a natural nutrient loop. The Armstrong® Ceiling Recycling Program diverts ceilings from renovation projects in a closed loop process back to the Armstrong plant to be upcycled into new ceilings. Add the Armstrong Ceiling Recycling Program to the Waste Management Plan to provide a solution to divert materials from the waste stream, increasing diversion percentage. Our program is available throughout the U.S. and Canada. Acoustical ceilings are a flexible solution with minimal waste.</td>
</tr>
<tr>
<td>BEAUTY</td>
<td>Celebrating design that uplifts the human spirit</td>
<td>19</td>
<td>Beauty &amp; Spirit</td>
<td>Intent: The project must meaningfully integrate public art and contain design features intended solely for human delight and the celebration of culture, spirit, and place appropriate to the project’s function. Armstrong® ceiling and walls solutions are available in many natural finishes, a large color palette, and exciting designs. With our Create!® line you can design a unique ceiling visual and bring nature inside. Ceilings and walls contribute interesting environmental elements; lighting and enhance space layout.</td>
</tr>
<tr>
<td>20</td>
<td>Inspiration &amp; Education</td>
<td></td>
<td></td>
<td>Intent: Educational materials about the operation and performance of the project must be provided to the public to share successful solutions and to motivate others to make change. Armstrong Ceilings is happy to be part of case studies of Living Building Challenge projects. We can provide product photography, product details and Declare™ documentation to enhance the inspiration and education.</td>
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