

# LEED® v4 – BD+C



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CONFORM® formwork may contribute to the following LEED® credits:



LEED® Credit Name	LEED® v4 Requirements	CONFORM® Contribution
<b>SS Credit – Site Development – Protect or Restore Habitat</b> (1-2 points)	Preserve and protect from all development and construction activity 40% of the greenfield area on the site (if such areas exist).	<ul style="list-style-type: none"> <li>- Smaller space required on site due to less scrap storage, interior bracing, and less exterior cladding and finishes</li> </ul>
<b>EA Credit – Energy and Atmosphere – Optimize Energy Performance</b> (1-20 points)	Increase levels of energy performance beyond the prerequisite standard. Establish an energy performance target no later than the schematic design phase. The target must be established as kBtu per square foot-year (kW per square meter-year) of source energy use.	<ul style="list-style-type: none"> <li>- High thermal mass rating facilitates compliance with ASHRAE 90.1 by reducing building energy demand</li> <li>- High reflectivity and white colour helps reduce interior lighting energy demand</li> <li>- Low air leakage reduces HVAC energy demand</li> </ul>
<b>MR Credit – Construction and Demolition Waste Management</b> (1-2 points)	Recycle and/or salvage nonhazardous construction and demolition materials. Calculations can be by weight or volume but must be consistent throughout Exclude excavated soil, land-clearing debris, and alternative daily cover (ADC). Include wood waste converted to fuel (biofuel) in the calculations; other types of waste-to-energy are not considered diversion for this credit.	<ul style="list-style-type: none"> <li>- Pre-fabricated components to suit specific building requirements results in zero to very little construction waste</li> <li>- Pre-engineering and design to suit specific building requirements results in minimal spare components on site</li> <li>- Spare components can be re-used for other buildings or sent back to factory for recycling</li> </ul>
<b>MR Credit – Building Product Disclosure and Optimization – Sourcing of Raw Materials</b> (1-2 points)	<p>Use products and materials that have environmentally, economically, and socially preferable life cycle impacts. Select products that are verified to have been extracted or sourced in a responsible manner.</p> <p><b>Option 1</b> – Use 20 products from 5 different manufacturers with publicly available information noting raw material extraction locations, ecologically responsible land use, and a commitment to reducing environmental impact from extraction.</p> <p><b>Option 2</b> – Use products that meet extraction criteria (detailed in LEED v4 BD+C Rating System) for at least 25% by cost of total value of building products in project.</p>	<ul style="list-style-type: none"> <li>- CONFORM® is manufactured using up to 15% pre-consumer recycled material that is waste from other vinyl manufactured products</li> <li>- Concrete used in the CONFORM® formwork can be manufactured using recycled aggregates and/or recycled flyash</li> <li>- Concrete used in the CONFORM® formwork is manufactured locally and uses local aggregates</li> </ul>

<p><b>EQ Credit – Low-Emitting Materials</b> (1-3 points)</p>	<p>Credit covers VOC emissions into indoor air and VOC content of materials, as well as the testing methods by which indoor VOC emissions are determined.</p> <p><b>Option 1</b> – Achieve threshold level of compliance with emissions and content standards for listed product categories</p> <p><b>Option 2</b> – Budget Calculation Method used if some products do not meet criteria. Equations outlined in BD+C Rating System</p>	<ul style="list-style-type: none"> <li>- Low VOC</li> <li>- No adhesives and minimal sealants required</li> <li>- Sealants, if required, shall comply with South Coast Air Quality Management District (SCAQMD) Rule #1168.</li> </ul>
<p><b>EQ Credit – Thermal Comfort</b> (1 point)</p>	<p>Meet the requirements for both thermal comfort design and thermal comfort control</p> <p><i>Thermal Comfort Design</i></p> <p><b>Option 1</b> – Design heating, ventilating, and air-conditioning (HVAC) systems and the building envelope to meet the requirements of ASHRAE Standard 55–2010, Thermal Comfort Conditions for Human Occupancy with errata or a local equivalent.</p> <p><b>Option 2</b> – Design HVAC systems and the building envelope to meet the requirements of the applicable standard:</p> <ul style="list-style-type: none"> <li>- ISO 7730:2005, Ergonomics of the Thermal Environment, analytical determination and interpretation of thermal comfort, using calculation of the PMV and PPD indices and local thermal comfort criteria; and</li> <li>- CEN Standard EN 15251:2007, Indoor Environmental Input Parameters for Design and Assessment of Energy Performance of Buildings, addressing indoor air quality, thermal environment, lighting, and acoustics, Section A2</li> </ul>	<ul style="list-style-type: none"> <li>- High thermal mass reduces temperature variations in conditioned spaces</li> <li>- Low air leakage reduces drafts</li> <li>- Low exfiltration/infiltration rates result in minimal energy required to heat or cool air</li> <li>- CONFORM® walls have continuous external insulation, which minimizes heat loss due to thermal bridging</li> </ul>
<p><b>IN Credit – Innovation</b> (1-5 points)</p>	<p><b>Option 1</b> – Achieve significant, measurable environmental performance using a strategy not addressed in the LEED green building rating system</p> <p><b>Option 2</b> – Achieve one pilot credit from USGBC’s LEED Pilot Credit Library</p> <p><b>Option 3</b> – Achieve exemplary performance in an existing LEED v4 prerequisite or credit that allows exemplary performance. Typically earned for achieving double the credit requirements or the next incremental percentage threshold.</p>	<ul style="list-style-type: none"> <li>- CONFORM® is a pre-finished product</li> <li>- Durable and low maintenance</li> <li>- Does not require painting/repainting</li> </ul>