

LIVING BUILDING CHALLENGE CREDITS

The Living Building Challenge User's Guide
v. 12



1. Responsible Site Selection	Notes	Documentation Requirements	Action
<p>Not within 50 feet of Wetlands</p> <p>Not on or adjacent to Sensitive Ecological Habitats such as Prime Dunes, Old Growth Forest or virgin prairie</p> <p>Not on Prime Farmland</p> <p>Not within 100-year floodplain</p>	<p>The building type category is "Laboratories/ Clean Rooms"</p> <p>The climate zone category is "Tropics"</p>	<p>1. An acceptable image must be provided that shows conditions on the site prior to development if the project is new and conditions 5 years earlier if existing. Acceptable images could include: Aerial photo of the project or Google-Earth Closeup of the project or site plan with site information clearly labeled is submitted. This information is not used in the official audit except as a guide.</p> <p>2. A Letter from Owner stating that prerequisite is met and that the project does not conflict with any of the site restrictions. A template will be provided in the near future.</p> <p>POTENTIAL ADDITIONAL DOCUMENTATION</p> <p>1. A Letter from a state or provincial biologist may be required as additional information depending upon adjacent land uses.</p> <p>2. If project is taking an exception related to wetlands and habitat, then copies of conservation program literature must be included in the submission. If the exception relates to farmland – photo's proving it is a working farm must be included. If it is part of an existing urban core, then aerial photo will suffice.</p>	<p>HPA</p> <p>HPA</p> <p>N/A</p> <p>N/A</p>
2. Limits to Growth	Notes	Documentation Requirements	Action
<p>Built on a greyfield or brownfield site</p>	<p>Previously developed sites include any site that has existing structures, extensive site disturbance or had at one time. Greenfield sites that are surrounded on three adjacent sides by development may be considered greyfield.</p>	<p>1. An acceptable image that shows the adjacent properties in 2007 and no later. Development date locked in at 2007. Image must show land-use on all sides of property. Aerial Photos, Google Earth close-ups of the project or Site Plan of the site prior to construction may suffice. Examples of acceptable submissions will be provided in the near future.</p>	<p>HPA - are there images that show the ground being disturbed, stuff being buried. The ones I have the ground looks 'clean'. Need to stress the 'previously disturbed' factor.</p>
3. Habitat Exchange	Notes	Documentation Requirements	Action
<p>For each acre of development, an equal amount of land must be set aside as part of habitat exchange</p>	<p>To find programs that adhere to the Land Trust Alliance Standards and Practices, search their geographically-based membership list: http://www.ltanet.org/finlandtrust/index.td. Those names followed by an "S&P" icon are programs that have stated compliance with the LTA Standards and Practices.</p>	<p>1. A signed letter from the owner of the project stating that prerequisite has been met. Template to be provided.</p> <p>2. A copy of the site plan with site acreage clearly marked. Examples to be provided.</p> <p>3. A copy of the receipt for the Habitat Exchange donation to one of the authorized Living Building Programs and the amount offset.</p>	<p>HPA</p> <p>HPA</p> <p>HPA</p>
4. Net Zero Energy	Notes	Documentation Requirements	Action
<p>100% on-site renewable energy on a net annual basis</p>		<p>1. Photographs of all renewable energy systems and a two-page summary of how the system works and major components.</p> <p>2. Letter from owner that intent has been met.</p> <p>3. A photocopy of energy bills for a continuous 12-month period.</p> <p>4. A letter from the local utility verifying the amount of energy purchases – and if net metering exists, the amount bought back.</p>	<p>HPA</p> <p>HPA</p> <p>HPA - NEXT YEAR</p> <p>HPA - HELCO</p>
5. Materials Red List	Notes	Documentation Requirements	Action
<p>Does not contain any of the *red list materials*¹ (See below)</p>		<p>1. Letter from the Owner and Signed and stamped by the Architect stating that the intent of the prerequisite has been met.</p> <p>2. Photocopy of key sections of the final specifications submitted based on likely places where red list materials would occur. Specific CSI divisions will be requested.</p> <p>3. Written explanation of what was substituted for key red list materials in common usage areas. (A template will be provided that prompts key questions)</p> <p>4. Copy of contractor bills related to key areas where red list materials likely to occur.</p>	<p>HPA/ FAI</p> <p>FAI (SEE LIST FROM BH ATTACHED)</p> <p>FAI/ QBI</p> <p>QBI</p>
6. Carbon Footprint	Notes	Documentation Requirements	Action
<p>Accounts for embodied carbon footprint through a one-time carbon offset related to construction type</p>	<p>Only CERs are acceptable, no RECs - Certified Emission Reductions (CERs) are climate credits (or carbon credits) issued by the Clean Development Mechanism (CDM) Executive Board for emission reductions achieved by CDM projects and verified by a DOE under the rules of the Kyoto Protocol.</p> <p>carbon calculators here: http://buildcarbonneutral.org/ and www.environmentagency.gov.uk/business/sectors/37543.aspx.</p>	<p>1. Letter from Architect showing completed carbon calculation. A simple template calculation is forthcoming; it will make this an easy calculation. It will be based on the square footage of the project, construction type and a multiplier.</p> <p>2. Photographs clearly showing basic building structure types: Straw/Earth (residential) Wood – light frame (residential) Wood – heavy timber Steel – light frame (small commercial/residential) Steel – heavy frame Concrete</p> <p>3. Letter from owner stating that carbon offsets have been purchased based on calculations.</p> <p>4. A copy of receipt from acceptable carbon offset programs showing offset purchase. A list of acceptable programs will be provided soon.</p>	<p>FAI</p> <p>QBI/ FAI</p> <p>HPA</p> <p>HPA/ CER provider</p>
7. Responsible Industry	Notes	Documentation Requirements	Action
<p>All wood FSC Certified or from salvaged sources</p>	<p>NOTE: a letter must be sent to all manufacturers of composite wood products.</p>	<p>1. Letter from Architect stating that project meets prerequisite</p> <p>2. Copies of chain of custody letters for all wood purchases with photographs of where wood occurs in the project.</p> <p>3. Photocopy of specifications where wood occurs</p>	<p>FAI</p> <p>QBI/ FAI</p> <p>FAI</p>
8. Appropriate Materials/ Service Radius	Notes	Documentation Requirements	Action
<p>Materials and services must adhere to the Weight/Distance List (see Red List Materials)</p>		<p>1. Letter from Architect stating that intent of prerequisite was met. Template to be provided.</p> <p>2. Summary of where renewable energy technologies are on project and where they were manufactured with names of all systems included.</p> <p>3. Summary of major building systems and where they came from (template will be provided)</p> <p>4. Letter from the Owner stating that consultant team met distance limits and a roster of consultants and roles, and office locations. Template to be provided.</p>	<p>FAI</p> <p>HPA</p> <p>HPA/ CHAS</p> <p>HPA</p>
9. Construction Waste	Notes	Documentation Requirements	Action
<p>Construction waste must be diverted from landfills to the appropriate levels</p>		<p>1. Letter from Owner and Signed by Architect and Contractor that intent of prerequisite was met.</p> <p>2. Copies of Receipts for all Tipping Fees and Recyclers</p>	<p>HPA/ FAI/ QBI</p> <p>QBI</p>

10. Net Zero Water	Notes	Documentation Requirements	Action
100% of water use from captured precipitation or reused water Exception to precipitation: water must be from potable sources and meet local requirements Exception: cisterns may be topped off initial by utility water source		1. Letter from Owner stating that prerequisite has been met. 2. Photographs of key water systems in the building and where they are located with basic description. 3. Copy of water bill from local utility if applicable or Letter from local utility showing amount of water purchased.	HPA HPA/ QBI/ CHAS HPA/ LOCAL UTILITY
11. Sustainable Water Discharge	Notes	Documentation Requirements	Action
100% stormwater and building discharge handled on-site		1. Letter from Owner stating that prerequisite has been met 2. Photographs of water retention/detention strategies on-site 3. Letter from City or County stating that compliance has been met.	HPA QBI/ BELT COLLINS CITY/ COUNTY
12. Civilized Work	Notes	Documentation Requirements	Action
Every occupiable space has operable windows		1. Letter from Architect stating that intent has been met. 2. Floorplans for all floors and 2 building sections at 11x17 size	HPA HPA
13. Source Control	Notes	Documentation Requirements	Action
All buildings meet the stated guidelines for entryways, separate ventilation and interior finishes		1. Letter from Mechanical Engineer that intent of the prerequisite has been met. 2. Photograph of entryways showing dirt track in. 3. One page description of how kitchens, bathrooms, copy rooms, janitorial closets and chemical spaces are vented 4. Copy of Specifications for selected CSI Division (finishes) 5. Copy of a cleaning plan with chemical use guidelines (more information to come)	CHAS QBI/ HPA/ FAI CHAS FAI/ CHAS HPA/ BH TO ASSIST
14. Ventilation	Notes	Documentation Requirements	Action
Buildings meet air change rates stated in California Title 24	For natural vent: a. occupied spaces must be within 20ft from window and b. total operable area must be 5% of total floor area for each space.	Forthcoming	??
15. Design for Spirit	Notes	Documentation Requirements	Action
Celebrates culture, spirit and place appropriate to the function of the building		1. 2000 word essay written by the architectural team that describes how the project meets the intent of the prerequisite. Essay must be accompanied by photographs, diagrams and drawings that illustrate major ideas. 2. 500 word testimonial by owner describing how building meets prerequisite in his/her eyes.	FAI/ BH HPA
16. Inspiration and Education	Notes	Documentation Requirements	Action
Educational materials about performance and operation of project are given to the public		1. Letter from Owner stating that prerequisite has been met and will continue to be met as long as he/she owns the property including keeping the building open at least one day a year to the public. 2. Project web site created that educates people about the project. URL is shared at submission 3. Interpretive signage placed around building, teaching visitors and employees about the project. Photographs of sample signage submitted. 4. Copy of Building Operations and Maintenance Manual and Video for building. A table of contents will be provided that describes acceptable submissions.	HPA HPA HPA HPA/ CxA