



Errata Sheet

For the document titled:

LEED for Core and Shell
Version 2.0
First Edition
Reference Guide
June 2006

Note: updates to this document are posted on the Reference Guide electronic access Web page (via www.usgbc.org/myUSGBC).

Errata posted 6/13/2008

EQc3.1	349	Under the heading “Requirements” , in the first bullet point, the referenced standard has been updated to the “SMACNA IAQ Guidelines for Occupied Buildings under Construction, Second Edition-November 2007, chapter 3”
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Errata posted 4/7/2008

MRC7	312 & 315	Under “Summary of Referenced Standard” (p288) and “Resources” (p291), change the Forest Stewardship Council, United States’ phone number to (703) 438-6401
MRC7	312	Revise the “Chain of Custody (COC) Certification” definition to: Chain-of-Custody (COC) Certification enables tracking of wood all the way through the value chain into final products. It is awarded to companies that produce, sell, promote, or trade forest products after audits verify proper accounting of material flows and proper use of the FSC name and logo.
MRC7	313	Replace the text under “Chain-of-Custody Requirements” with the text below: Chain-of-Custody Requirements Each wood products vendor that invoices FSC-certified wood products to project contractors and subcontractors must be COC-certified by an FSC-accredited certifier. Contractors and subcontractors are not required to have COC certification.
MRC7	313	Replace the text under “Calculations” with the text below: List all new (i.e. not reclaimed, salvaged, or recycled, etc.) wood products used on the project and identify which products are FSC certified. Using Equation 1 , tally both the non-FSC-certified wood and the FSC certified wood. Wood products that are identified as “FSC Pure” or “FSC Mixed Credit” shall be valued at 100% the product cost. Wood products identified as “FSC Mixed [NN] %” should be valued at the indicated percentage of their cost, e.g., a product identified as “FSC Mixed 75%” should be valued at 75% of the cost. “FSC Recycled” and “FSC Recycled Credit” products do not contribute to this credit.

MRc7	313-314	<p>Replace the title “Assemblies” with “Products that Combine Wood and Other Materials” and under that heading replace the existing text with the following:</p> <p>In the case of manufactured products such as windows and some furniture systems that combine wood and non-wood materials, only the wood portion can be applied toward the credit. To determine the value of the wood portion, calculate the amount of wood as a percent of the total weight, volume, or cost of the product and multiply this by the total value of the product as invoiced to project contractors, subcontractors, or buying agents.</p> <p>If the wood portion of the assembly product is identified as “FSC Pure” or “FSC Mixed Credit,” then 100% of the value of the wood portion shall count toward achievement of the credit. If the product is identified as “FSC Mixed [NN]%,” then the wood portion should be valued at the indicated percentage, e.g., for a product identified as “FSC Mixed 75%,” the wood portion should be valued at 75% of the cost.</p> <p>The calculations for certified wood shall include only new wood products. The value of any recycled wood fiber content of a product that qualifies as contributing to MR Credit 4, Recycled Content Materials, shall be excluded</p>
MRc7	314	<p>Replace the text under “Submittal Documentation” with the text below:</p> <p>This credit is submitted as part of the Construction Submittal.</p> <p>The following data and calculation information is required in order to complete the v2.2 Submittal Templates:</p> <ul style="list-style-type: none"> □ For all permanently-installed wood products, both FSC-certified and not, vendor invoices must be compiled, and wood price values entered into the submittal template. A Vendor is defined as the company that sells wood products to building project contractors or subcontractors. <p>Each vendor invoice must conform to the following requirements:</p> <ol style="list-style-type: none"> 1. Each wood product must be identified on a line-item basis; 2. FSC products must be identified as such on a line-item basis and must be identified as “FSC Pure,” “FSC Mixed Credit,” or “FSC Mixed [NN]%”; 3. The \$ value of each line item must be shown; 4. The vendor’s chain-of-custody (COC) number must be shown on any invoice that includes FSC products. <p>Exceptions – in some rare instances, it may not be practical for a vendor to invoice wood products on a line-item basis because the invoice would be dozens of pages long. In such cases, the invoice should indicate the aggregate value of wood products sold by the vendor. If the wood products are FSC certified:</p> <ol style="list-style-type: none"> 1. The vendor’s COC number must be shown on the invoice; 2. The invoice must be supplemented by a letter from the vendor stating

		<p>that the products invoiced are FSC certified.</p> <p>3. The invoice or the letter must state whether the products are “FSC Pure,” “FSC Mixed Credit,” or “FSC Mixed [NN]%.”</p> <p>An optional narrative can be submitted describing any special circumstances or considerations regarding the project's credit approach.</p>
MRc7	315-316	<p>Under Definitions, revise the “Chain of Custody (COC)” definition so it reads as follows:</p> <p>Chain-of-Custody (COC) is the path taken by raw materials, processed materials, and products from the forest to the consumer, including all successive stages of processing, transformation, manufacturing and distribution. The COC certificate number is listed on vendor invoices for products to document that an entity has followed FSC guidelines for product accounting.</p>
MRc7	316	<p>Under Definitions, strike the last sentence of the definition of “Vendor,” so it reads as follows:</p> <p>Vendor is defined as the company that supplies wood products to the building projects contractors or subcontractors.</p>
EAp2	183	<p>Under the title “Requirements”, delete</p> <p>“without addenda” from the first and second bullet point</p>
EAp3	191	<p>At the end of the requirements section, before “Potential Technologies and Strategies” add the sentence</p> <p>“Small HVAC units (defined as containing less than 0.5 lbs of refrigerant), and other equipment such as standard refrigerators, small water coolers, and any other cooling equipment that contains less than 0.5 lbs of refrigerant, are not considered part of the “base building” system and are not subject to the requirements of this credit.”</p>
EAc1	199	<p>In the paragraph of option 2, at the end of the paragraph,</p> <p>add the following:</p> <p>"Teams must also provide additional documentation, such as relevant detailed drawings, cut sheets, mechanical/electrical schedules, sections’ of specifications or other documentation to demonstrate compliance with this standard."</p>
EAc2	228	<p>Left hand column under the title “Default Annual Fuel Costs”</p> <p>“58.3kBtu/sf-yr”</p> <p>should be</p> <p>“58.5kBtu/sf-yr”</p>
EAc4	239	<p>In the sentence “Rc: Refrigerant charge (0.5 to 5.0 lbs of refrigerant per ton of cooling capacity) Add “Gross ARI rated” so that the sentence reads</p> <p>“Rc: Refrigerant charge (0.5 to 5.0 lbs of refrigerant per ton of <u>Gross ARI rated</u> cooling capacity)</p>
EAc4	239	<p>In the sentence “Qunit = cooling capacity of an individual HVAC or refrigeration unit” Add “gross ARI rated” so that the sentence reads</p> <p>“Qunit = <u>Gross ARI rated</u> cooling capacity of an individual HVAC or refrigeration unit”</p>
EAc4	239	<p>In the sentence “Qtotal = Total cooling capacity</p>

		Add “Gross ARI rated” so that the sentence reads $Q_{total} = \text{Total } \underline{\text{Gross ARI rated}} \text{ cooling capacity}$
EAc4	244	left column, bottom, under “Calculations” change the first bullet point to • “Refrigerant charge, (Rc) in lbs of refrigerant per ton of <u>Gross ARI rated</u> cooling capacity”
EAc4	245	Left column, towards the bottom, replace the sentence <i>” If there are multiple pieces of base building HVAC&R equipment, the project should use a weighted average of all equipment, based on <u>cooling capacity</u>”</i> with “If there are multiple pieces of base building HVAC&R equipment, the project should use a weighted average of all equipment, based on <u>Gross ARI rated</u> cooling capacity”
EAc4	245	Left column, towards the bottom, replace the bullet point ○ “Qunit = cooling capacity of an individual HVAC or refrigeration unit (tons)” With ○ “Qunit = <u>Gross ARI rated</u> cooling capacity of an individual HVAC or refrigeration unit (tons)”
EAc4	245	Right column, at the top, replace the bullet point ○ “Qtotal = Total cooling capacity of all HVAC or refrigeration” With ○ Qtotal = Total <u>Gross ARI rated</u> cooling capacity of all HVAC or refrigeration
EQc6.2	388	Top of the page, left hand column in the sentence “ASHRAE Standard 55-2004, Thermal Comfort Conditions for Human Occupancy”, change “Comfort” to “Environmental”
EQc8.1	405	Please replace the last phrase of the title "Regularly Occupied Spaces" to the following (changes in CAPS) "in residential applications it refers to ALL SPACES EXCEPT CLOSETS OR OTHER STORAGE AREAS, UTILITY ROOMS, AND BATHROOMS. (BEDROOMS, LIVING ROOMS, TV ROOMS, DINING ROOMS, KITCHENS, MEDIA ROOMS, ETC. WOULD ALL BE CONSIDERED "REGULARLY OCCUPIED.)"
EQc8.2	409	In table 1, Left hand side, change the room “102 Conference” to “102 Office”
EQc8.2	412	Please replace the last phrase of the title "Regularly Occupied Spaces" to the following (changes in CAPS) "in residential applications it refers to ALL SPACES EXCEPT CLOSETS OR OTHER STORAGE AREAS, UTILITY ROOMS, AND BATHROOMS. (BEDROOMS, LIVING ROOMS, TV ROOMS, DINING ROOMS, KITCHENS, MEDIA ROOMS, ETC. WOULD ALL

		BE CONSIDERED "REGULARLY OCCUPIED.)"
EQ Glossary	436	<p>Please replace the last phrase of the title "Regularly Occupied Spaces" to the following (changes in CAPS)</p> <p>"in residential applications it refers to ALL SPACES EXCEPT CLOSETS OR OTHER STORAGE AREAS, UTILITY ROOMS, AND BATHROOMS. (BEDROOMS, LIVING ROOMS, TV ROOMS, DINING ROOMS, KITCHENS, MEDIA ROOMS, ETC. WOULD ALL BE CONSIDERED "REGULARLY OCCUPIED.)"</p>

Errata Posted November 2, 2007

EAp2	219	<p>Strike the sentence under the “Tenant Sales or Lease Agreement Credit Compliance” header, and replace with the following:</p> <p>This compliance method is available to core and shell projects that incorporate into tenant sales or lease agreements requirements as part of the tenant scope of work. For LEED-CS certification, a core and shell project must meet the mandatory and prescriptive requirements of ASHRAE 90.1 2004 for all applicable building systems either through the core and shell design and construction scope, or through a tenant sales and lease agreement. A combination of both is acceptable.</p> <p>Provide the LEED letter template for the credit pursued indicating the following:</p> <ul style="list-style-type: none"> • 100% of the leased square footage is required to comply with the credit requirements. Lease or sales agreements may be requested. • 100% of the unleased square footage shall comply with the credit requirements when leased. A statement signed by the owner/developer that all leases and/or sales agreements will comply may be requested.
EAc1	228	<p>Strike the sentence under the “Tenant Sales or Lease Agreement Credit Compliance” header, and replace with the following:</p> <p>This compliance method is available to core and shell projects that incorporate into tenant sales or lease agreements requirements as part of the tenant scope of work. For LEED-CS certification, a core and shell project must meet the mandatory and prescriptive requirements of ASHRAE 90.1 2004 for all applicable building systems either through the core and shell design and construction scope, or through a tenant sales and lease agreement. A combination of both is acceptable.</p> <p>Provide the LEED letter template for the credit pursued indicating the following:</p> <ul style="list-style-type: none"> • 100% of the leased square footage is required to comply with the credit requirements. Lease or sales agreements may be requested. • 100% of the unleased square footage shall comply with the credit

		requirements when leased. A statement signed by the owner/developer that all leases and/or sales agreements will comply may be requested.
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Errata Posted September 28, 2007

EAp2	183	Under the title “Requirements”, delete from the first and second bullet points “without addenda”
EAc1	195	Under the title “Optimize Energy Performance”, add the sentence “2 points mandatory for LEED for Core and Shell Construction projects registered after June 26, 2007”
EAc1	195	Under the title “Option 1- Whole Building Energy Simulation (1-8 Points) delete “without addenda” from the first sentence.
EAc1	195	In the middle of the page under the point breakdown table, please add the sentence “* Note: Only projects registered prior to June 26, 2007 may pursue 1 point under EAc1”
EAc1	195	In the first and third bullet point beneath the point breakdown table, delete the words “without addenda” and “without amendments”
EAc1	196	<p>At the bottom of the page, beneath option 2, the following text is the new option 3. The existing option 3 which begins at the bottom of page 196 is moved to become option 4 (please see next errata item).</p> <p>“OPTION 3 – PRESCRIPTIVE COMPLIANCE PATH: Advanced Buildings™ <i>Core Performance</i>™ Guide (2-5 Points)</p> <p>Comply with the prescriptive measures identified in the Advanced Buildings™ <i>Core Performance</i>™ Guide developed by the New Buildings Institute.</p> <ul style="list-style-type: none"> • The Core Performance Guide is applicable for buildings under 100,000 square feet. • The Core Performance Guide is NOT applicable for health care, warehouse or laboratory projects. • Project teams must fully comply with Sections One, <i>Design Process Strategies</i> and Two, <i>Core Performance Requirements</i>. <p>Minimum points achieved under Option 3 (2-3 points):</p> <ul style="list-style-type: none"> • 3 points are available for all office, school, public assembly, and retail projects under 100,000 square feet that comply with Sections One and Two of the <i>Core Performance Guide</i>. • 2 points are available for all other project types under 100,000 square feet (except health care, warehouse, or laboratory projects) that implement the basic requirements of the <i>Core Performance Guide</i>

		<p>Additional points available under Option 3 (up to 2 additional points):</p> <ul style="list-style-type: none"> Up to 2 additional points are available to projects that implement performance strategies listed in Section Three, <i>Enhanced Performance</i>. For every three strategies implemented from this section, one point is available. <p>Any strategies applicable to the project may be implemented within this section except:</p> <p style="padding-left: 40px;">3.1-Cool Roofs 3.8-Night Venting 3.13-Additional Commissioning</p> <p>These strategies are addressed by different aspects of the LEED program and are not eligible for additional points under EA Credit 1.”</p>
EAc1	196	<p>At the bottom of the page, change the title “Option 3- Prescriptive Compliance Path (1 Point)”</p> <p>to</p> <p>“Option 4- Prescriptive Compliance Path (1 Point) <i>Note: projects registered after June 26, 2007 may not use this option</i>”</p>
EAc1	199	<p>In the left hand column, change the title “Option 3-Advanced Buildings Benchmark TM Version 1.1”</p> <p>To</p> <p>“Option 4-Advanced Buildings Benchmark TM Version 1.1”</p>
EAc1	199	<p>In the left hand column, above the title “Option 4-Advanced Buildings Benchmark TM Version 1.1”</p> <p>Insert</p> <p>“Option 3-Advanced Buildings Core Performance Program.</p> <p>The <i>Advanced Buildings Core Performance</i> program has been adopted by the USGBC as a prescriptive path alternative to energy modeling for projects under 100,000 sf. Following the requirements of the <i>Core Performance</i> program can achieve 2-5 LEED points under Ea credit 1. (See the application language in the credit discussion for project specific application and energy point achievement).</p> <p>The <i>Advanced Buildings</i> program was developed by the New Buildings Institute to provide a prescriptive program to exceed the energy performance requirements of</p>

		<p>ASHRAE 90.1. The program was designed to provide a predictable alternative to energy performance modeling, and a simple set of criteria that can be implemented by design teams to significantly increase building energy performance.</p> <p>The <i>Advanced Buildings Core Performance</i> program is an updated version of the <i>Advanced Buildings Benchmark</i> program, which it replaces. <i>Core Performance</i> is calibrated to exceed the requirements of ASHRAE 90.1-2004 in all climate zones.</p> <p>Information about the <i>Core Performance</i> program requirements and a range of additional reference material is available at www.advancedbuildings.net.</p> <p>There are several aspects the <i>Core Performance</i> program that overlap with other LEED credits and prerequisites. Following the <i>Core Performance</i> program is not an alternative path to achieving any LEED credits other than EA credit 1, although some aspects of <i>Core Performance</i> may also support achievement of the requirements of other LEED credits and prerequisites.”</p>
EAc1	205	<p>In the left hand column, middle of the page, replace the title “Option 3- Prescriptive Compliance Path”</p> <p>With</p> <p>“Option 4- Prescriptive Compliance Path”</p>
EAc1	205	<p>In the left hand column, above the title ““Option 4- Prescriptive Compliance Path”</p> <p>Insert</p> <p>“Option 3</p> <p>The <i>Core Performance Guide</i> describes the requirements of the program. The Guide is divided into five basic sections, describing different elements of the program requirements. In the <i>Core Performance</i> program, specific program requirements are referred to as <i>criteria</i>.</p> <p>Introduction</p> <p>The introduction section includes a brief overview of the <i>Core Performance</i> program, including the analysis protocols used to develop the program. The introduction also includes a Quick Start Guide that provides a program overview, and a table that correlates the program criteria (requirements) to other LEED credits.</p> <p>Section 1 Design Process Requirements-(REQUIRED by LEED)</p> <p>This section describes a series of requirements that address the design process to encourage the development of a more integrated building design. Most of the criteria in this section are typically implemented by LEED project teams, and can help the team to track building performance issues more effectively through the</p>

	<p>design and construction process. <i>LEED projects following the prescriptive path for points under EA credit 1 must implement all of the criteria listed in this section of the Core Performance Guide.</i></p> <p>The specific criteria in this section of <i>Core Performance</i> are:</p> <ul style="list-style-type: none"> 1.1 Identify Design Intent 1.2 Communicating Design Intent 1.3 Building Configuration 1.4 Mechanical System Design 1.5 Acceptance Testing 1.6 Operator Training 1.7 Performance Data Review <p>Section 2 <i>Core Performance</i> Requirements-(REQUIRED by LEED)</p> <p>This section includes the specific energy performance measures that form the basis of achievement of energy savings under the <i>Core Performance</i> program, compared to ASHRAE 90.1-2004. Projects using the program to achieve EA credit 1 points prescriptively must implement all of the criteria listed in this section of the <i>Core Performance Guide</i>. (Note that under some specific conditions, certain criteria in <i>Core Performance</i> may not be applicable to specific projects. For example projects without server rooms need not implement the Dedicated Mechanical Systems criteria).</p> <p>The specific criteria in this section of <i>Core Performance</i> are:</p> <ul style="list-style-type: none"> 2.1 Energy Code Compliance 2.2 Air Barrier Performance 2.3 Indoor Air Quality 2.4 Below Grade Insulation 2.5 Envelope Performance 2.6 Fenestration 2.7 Lighting Controls 2.8 Lighting Power Density 2.9 Mechanical Efficiency 2.10 Dedicated Mechanical Systems 2.11 Demand Control Ventilation 2.12 Hot Water System Efficiency 2.13 Fundamental Economizer Performance <p>Section 3 Enhanced Performance Strategies-(OPTIONAL for additional points)</p> <p>The criteria identified in this section are not required when using the <i>Core Performance</i> program as a prescriptive path in LEED. These strategies can be</p>
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	<p>used to increase the number of LEED points achieved using the <i>Core Performance</i> program. For each three additional Enhanced Performance Strategies implemented by a project, an additional EA credit 1 point can be achieved. (A maximum of two additional points can be achieved, in addition to the points achieved from the required measures above.)</p> <p>Several of the criteria in the Enhanced Performance section of <i>Core Performance</i> do not qualify for additional points under EAc1. These strategies are addressed by different aspects of the LEED program. The list below identifies all of the Enhanced Strategy Criteria which can be used to achieve additional LEED EA credit 1 points:</p> <ul style="list-style-type: none"> 3.1 (not applicable) 3.2 Daylighting and Controls 3.3 Additional Lighting Power Reductions 3.4 Plug Loads/Appliance Efficiency 3.5 Supply Air Temperature Reset (VAV) 3.6 Indirect Evaporative Cooling 3.7 Heat Recovery 3.8 (not applicable) 3.9 Premium Economizer Control 3.10 Variable Speed Drives 3.11 Demand Responsive Buildings 3.12 Renewable Energy 3.13 (not applicable) 3.14 Fault Detection Diagnostics <p>Not all of the criteria listed in the Enhanced Strategy section can be applied effectively to all projects. The design team must evaluate the measures described to decide on applicability on a project by project basis.</p> <p>Section 4 Energy Modeling-(NOT APPLICABLE for LEED prescriptive path)</p> <p>The <i>Core Performance</i> program is designed as a prescriptive path for energy performance. Energy modeling is included as an option in <i>Core Performance</i> for projects that wish to demonstrate comparable performance under some state and utility programs. This is not a part of the LEED prescriptive path option. Projects which undertake energy modeling for LEED credit must comply with the energy performance requirements described in LEED, using ASHRAE 90.1-Appendix G as a baseline.</p> <p>The <i>Core Performance</i> program is designed as a prescriptive measure program, and as such is calibrated to the <i>prescriptive requirements</i> of ASHRAE 90.1-2004. Projects which use Appendix G as a baseline may be required to utilize a different mechanical system baseline, and therefore may not be able to demonstrate the same level of relative energy savings as suggested by the <i>Core Performance</i> program. The relative performance of the baseline does not affect the predicted</p>
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		energy use of the proposed building, but does affect the performance of the project relative to LEED.
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Errata posted Spring 2007

Credit Page Erratum

Intro	ii	Change the USGBC address to: U.S. Green Building Council 1800 Massachusetts Ave, NW Suite 300 Washington, DC 20036
Intro	13	Under the second paragraph of LEED Green Building Rating System: History of LEED, add the definition of LEED so the first sentence begins: “The first LEED (Leadership in Energy and Environmental Design) Pilot Project Program...”
SSc1	33	Clarification of “water body” definition. Under Approach and Implementation, add a new paragraph after the second paragraph that reads: “Regarding the fifth bullet point of the Requirements, LEED clarifies the term “water body” from the Clean Water Act by exemption small man-made ponds, such as those used in Storm water retention, fire suppression and recreation. Man-made wetlands and other water bodies created to restore natural habitat and ecological systems are not exempt. Wetlands are addressed specifically by the fourth bullet point of the Requirements.”
SSc1	36	Under the heading “ESRI”, replace the existing link with www.esri.com/hazards

SSc2	43	<p>Delete the text under “Exemplary Performance” and replace with the following language from the CIR dated September 22, 2006:</p> <p>“Based on evidence that higher density locations can achieve substantially and quantifiably higher environmental benefits, the following threshold requirements can be used to qualify a project for an exemplary performance Innovation Credit:</p> <p>A LEED for New Construction project must first meet the requirements of Option 1 of SSc2 (density path) in LEED for New Construction v2.2. Additionally, the project must meet one of the two following requirements:</p> <ul style="list-style-type: none"> ▪ The project itself must have a density of at least double that of the average density within the calculated area (see equation 2). <i>OR</i> ▪ The average density within an area twice as large as that for the base credit achievement must be at least 120,000 square feet per acre. To double the area, use equation 2 but double the property area first. <p>These requirements are based on the decision that a project achieving exemplary performance for this credit should:</p> <ul style="list-style-type: none"> ▪ Not lower the existing average density of the area, ▪ Achieve a density of at least twice the threshold of the base credit, <i>AND/OR</i> ▪ Locate within an area of established density that is larger than that required for the base credit, which is why the radius used in the base credit has been doubled.”
SSc2	46	<p>Add to the definition of Square Footage:</p> <p>“Only 2 stories of a parking structure may be counted as part of building square footage. Surface parking (only 1 story of parking) cannot count as part of building square footage. This is to ensure efficient use of land adjacent to the building footprint.”</p>
SSc4.1	55	<p>Under Exemplary Performance, add a new paragraph with language from Credit Ruling dated September 11, 2006:</p> <p>“Based on evidence that locations with higher transit density can achieve substantially and a quantifiably higher environmental benefit, meeting the following threshold qualifies a project for exemplary performance Innovation Credit. This follows the Center for Clean Air Policy’s finding that average transit rider ship increases by 0.5% for every 1.0% increase in growth of transit service levels, which leads to the conclusion that quadrupling transit service generally doubles transit rider ship.</p> <p>To accomplish this quadrupling of service and doubling of rider ship, at a minimum:</p> <ul style="list-style-type: none"> ▪ Locate the project within ½ mile of at least two existing commuter rail, light rail, or subway lines, <i>OR</i> locate project within ¼ mile of at least two or more stops for four or more public or campus bus lines usable by building occupants; <i>AND</i> ▪ Frequency of service must be such that at least 200 transit rides per day are available in total at these stops. A combination of rail and bus is allowable. This strategy is based on the assumption that the threshold of the base credit would provide, in most cases, at least 50 transit rides per day (half-hourly service 24

		hours per day or more frequent service for less than 24 hours per day). If, on average, transit rider ship increases by 0.5% for every 1.0% increase in transit service, then quadrupling the number of rides available would, on average, double the transit rider ship. (4 x 50 rides = 200 rides). Include a transit schedule and map within your LEED certification submittal.”
SSc4.2	57	Under Requirements, the last line of Case 1, “5% of Full-time Equivalent (FTE)” should be changed to “0.5% of Full-time Equivalent (FTE)”.
SSc4.2	57	Under Requirements, the last line of Case 2, “5% of Full-time Equivalent (FTE)” should be changed to “0.5% of Full-time Equivalent (FTE)”.
SSc4.2	59	In item 7. under Calculations, change “5%” to “0.5%”
SSc4.2	59	In item 4. under Case 2, change “5%” to “0.5%”
SSc4.2	59	In Equation 4, change “0.05” to “0.005”
SSc4.2	60	In Equation 8, change “0.05” to “0.005”
SSc4.2	60	In “ <i>Example: Case 1</i> ” under Case 3, in “Shower and changing facilities = 500 x 0.05 = 2.5, therefore provide 3” change “0.05” to “0.005”
SSc4.3	69	Under the heading “Natural Gas Vehicle Coalition” replace the existing web link with www.ngvc.org
SSc4.4	71	Under Requirements, below the italicized text in NOTES, add: “When parking minimums are not defined by relevant local zoning requirements, or when there are no local zoning requirements, either: A) Meet the requirements of Portland, Oregon, Zoning Code: Title 33, Chapter 33.266 (Parking and Loading) OR, if this standard is not appropriate for the building type, B) Install 25% less parking than the building type's average listed in the Institute of Transportation Engineers' Parking Generation study, 3rd Edition.”
SSc4.4	72	Replace the text under Summary of Referenced Standard with the following text: “Portland, Oregon, Zoning Code: Title 33, Chapter 33.266 (Parking and Loading) Available through www.portlandonline.com/planning/ . Institute of Transportation Engineers' <i>Parking Generation</i> , 3rd Edition
SSc5.1	75	Within the requirements for previously developed sites, replace the last sentence with the following text. “Projects earning SS Credit 2 and using vegetated roof surfaces may apply the vegetated roof surface to this calculation (if the plants meet the definition of native/adapted), in which case the requirement is 20% of the <i>total</i> site area.” Thus, the building footprint is included in the denominator of the equation. This option is intended for urban sites with little or no building setback (i.e. zero-lot-line).
SSc5.2	85	The definition of Open Space Area needs clarification. Replace with: “Open Space Area is as defined by local zoning requirements. If local zoning requirements do not clearly define open space, it is defined for the purposes of LEED calculations as the property area minus the development footprint; and it must be vegetated and pervious, with exceptions only as noted in the credit requirements section. For projects located in urban areas that earn SS Credit 2, open space also includes non-vehicular, pedestrian-oriented hardscape spaces.”
SSc7.1	103	Under the heading “American Concrete Pavement Association”, replace the second link with www.pavement.com/Downloads/RT/RT3.05.pdf
SSc7.2	107	In Table 1, the row for Aluminum should be labeled “Aluminum Coating”. The SRI should be “50”.

SSc8	120	Under “Sky & Telescope” replace the existing web link with http://skytonight.com/resources/darksky
WEc1	138	In the first column, delete the following: “The values for ET in various regions throughout the United States can be found in regional agricultural data (see Resources section).” To be replaced by: “The Resources section provides a link to ET data.”
WEc1	142	Under Resources, replace the reference to “Texas Evapotranspiration Web Site” with the following: Rain Bird® ET Manager™ Scheduler www.rainbird.com/landscape/products/controllers/etmanager.htm This free software provides sufficient local evapotranspiration data for the United States and Canada. Use data from the closest or most climate-appropriate location.
WEc1	143	Under the heading “Water-Efficient Landscaping: Preventing Pollution and Using Resources Wisely”, replace the existing web link with www.epa.gov/OW-OWM.html/water-efficiency/docs/water-efficient_landscaping_508.pdf
WEc2	154	Under the heading “On-site Wastewater Treatment Systems Manual”, replace the existing web link with www.epa.gov/OW-OWM.html/septic/pubs/septic_management_handbook.pdf
EA	170	Under Table 1, change EAc5.1 & EAc5.2 to Construction Submittals, “*”
EAp1	180	Under the heading “Building Commissioning Association”, replace the existing web link with www.bcxa.org/resources/index.shtm
EAc1	213	Under the heading “Exemplary Performance”, replace the existing text with the following: “Projects pursuing EAc1, Option 1, that demonstrate a percentage improvement in the proposed building performance rating compared to the baseline building performance rating per ASHRAE/IESNA Standard 90.1-2004 by the following minimum energy cost savings percentages will be considered for one additional point under the Innovation in Design category: - New Buildings: 38.5% - Existing Buildings: 31.5%
EAc1	220	Under the heading “Energy-10™ Energy Simulation Software”, replace the existing web link with www.nrel.gov/buildings/energy10.html
EAc1	221	Under the heading “Office of Energy and Renewable Energy” replace the existing web link with www.eere.energy.gov/buildings/
EAc2	228	Under the heading “Exemplary Performance” replace the existing text with the following: “Projects that demonstrate 5% on-site renewable energy production as a percentage of the building annual energy cost will be considered for one additional point under the Innovation in Design category.”
EAc2	230	Under the heading “Net Metering”, change the existing web link to www.eere.energy.gov/greenpower/markets/netmetering.shtml
EAc5.1	249	Delete first bullet point of Requirements. Replace second bullet point of Requirements with the following: <ul style="list-style-type: none"> • “Develop and implement a Measurement & Verification (M&V) Plan consistent with Option D: Calibrated Simulation (Savings Estimation Method 2), or Option B:

		Energy Conservation Measure Isolation, as specified by the International Performance Measurement & Verification Protocol (IPMVP) Volume III: Concepts and Options for Determining Energy Savings in New Construction, April, 2003. The documentation is to include 1) a description of the metering infrastructure design, 2) existing meter locations, 3) existing meter specifications, 4) 1-line electrical schematics identifying end-use circuits, 5) guidelines for carrying out tenant sub-metering.
EAc5.1	252	Under Certification Submittal Documentation, change the first sentence to say “Construction Submittal”
EAc5.1	253	Under the heading “International Performance Measurement & Verification protocol” replace the existing web link with www.evo-world.org/index.php?option=com_content&task=view&id=61&Itemid=80
EAc5.1	255	In the last sentence under Potential Technologies and Strategies, delete “savings”.
EAc5.1	256	Under the heading “International Performance Measurement & Verification protocol” replace the existing web link with www.evo-world.org/index.php?option=com_content&task=view&id=61&Itemid=80
EAc5.2	256	Under Submittal Documentation, change the first sentence to say “Construction Submittal”
EAc6	260	<p>Before the numbered items in Approach and Implementation insert the following:</p> <p>“NOTE: The power product purchased to comply with credit requirements need not be Green-e certified, but projects are required to document to USGBC that their renewable supplier has 1) met the Green-e criteria, and 2) properly accounted for the eligible renewable resources sold. This documentation to USGBC must include some type of meaningful verification work performed by a qualified, disinterested third party.</p> <p>Example documentation methods to USGBC that meet this requirement include: a) providing a state-mandated power disclosure label from the renewable supplier in states with meaningful regulatory requirements for renewable energy disclosure and accounting practices, as well as meaningful penalties for violations; b) providing a green power scorecard or rating from a credible, independent entity that performs meaningful verification of green power characteristics and accounting practices. In either case projects must confirm that the third-party entity’s regulatory or verification programs are meaningful, summarizing those programs to USGBC as part of their certification application and highlighting any auditing or other independent checks the program performs. Other documentation methods will be considered on a case-by-case basis.”</p>
MR	266	Under Table 1, change the second occurrence of “MRc4.1” to MRc4.2”
MR	266	Under Table 1, change the second occurrence of “MRc5.1” to “MRc5.2”
MRc1.3	277	In the first sentence under Potential Technologies & Strategies, delete “interior non-structure”
MRc1.3	277	Change title of credit to: “Building Reuse: Maintain 75%, of Existing Walls, Floors & Roof”
MRc1.3	277	Where it says “1 point”, change to “1 Point in addition to MRc1.1 & 1.2”
MRc2.1	281	Add to last sentence on the page, in regards to salvage materials: “(see page 283)”
MRc2	283	Insert as the last sentence of the Approach & Implementation section: “Materials salvaged and reused on-site can contribute to this credit if they are not included in Credit 3 calculations.”
MRc3	290	Revise the last sentence in the second column, first paragraph, to read “Materials contributing toward achievement of Credit 3 cannot be applied to MR Credits 1, 2, 4, 6 or 7.

		If MRC3 is not being attempted, applicable materials can be applied to another LEED credit if eligible.”
EQp2	328	Move the first sentence in bullet 5 of Option 3 to the end of the 4 th bullet on page 327.
EQc2	347	Under Building Air Quality Action Plan, replace existing web link with www.epa.gov/iaq/largebllds/#Building%20Air%20Quality%20Action%20Plan
EQc4.1	357	Under Green Seal Standard 36, replace the existing web link with www.greenseal.org/certification/standards/commercialadhesives.cfm
EQc4.1	358	Under Green Seal Standard 36, replace the existing web link with www.greenseal.org/certification/standards/commercialadhesives.cfm
EQc4.2	359	In the second bullet under Requirements, replace “GC-03” with “GS-03” to fix the typographical error.
EQc4.2	359	In the third bullet under Requirements, add “The following list of SCAQMD VOC limits are examples. Refer to the standards for complete details.” After the last sentence and before the sub bullets.
EQc4.2	359	Under Requirements, add to the end of the first bullet point: “Primers must meet the VOC limit for non-flat paint.”
EQc4.2	360	Under Green Seal Standard GS-11, replace the existing web link with www.greenseal.org/certification/standards/paints.cfm
EQc4.2	360	Under Green Seal Standard GS-03, replace the existing web link with www.greenseal.org/certification/standards/anti-corrosivepaints.cfm
EQc4.3	364	Under Testing Criteria, replace the existing web link with www.dhs.ca.gov/ps/deodc/ehlb/IAQ/VOCS/LORS/Section01350_7_15_2004_FINAL%20W%20ITH%20ADDENDUM-2004-01.doc
EQc5	379	Under Green Seal, replace the existing web link with www.greenseal.org/findaproduct/index.cfm#cleaners
EQc5	380	Under Janitorial Products Pollution Prevention project, replace the existing web link with www.westp2net.org/janitorial/jp4.cfm
EQc8.1	404	Under The Whole Building Design Guide, Daylighting, replace the existing web link with www.wbdg.org/design/daylighting.php
EQc8.1	404	Under Lighting Controls, replace the existing web link with www.wbdg.org/design/electriclighting.php
EQc8.1	404	Under New Buildings Institute’s Productivity and Building Science Program, replace the existing link with www.newbuildings.org/lighting.htm
EQ8.2	411	Under New Buildings Institute’s Productivity and Building Science Program, replace the existing link with www.newbuildings.org/lighting.htm
EQ8.2	411	Under The Whole Building Design Guide, Daylighting, replace the existing web link with www.wbdg.org/design/daylighting.php
EQ8.2	412	Under Lighting Controls, replace the existing web link with www.wbdg.org/design/electriclighting.php