



# DOCUMENT ADDENDA

For the document titled: **LEED Reference Guide for Green Interior Design and Construction, 2009 Edition** *(second edition, updated May 2011)*

*Note: This document contains addenda to the reference guide listed above and will be published on a quarterly basis beginning in April 2010. For more information, visit the USGBC website <http://www.usgbc.org/leed/tools/interpretations>.*

Page	Location	Credit	Credit Title	Issue	Post Date
xxi	VIII. REGIONAL PRIORITY	n/a	n/a	Remove the "1 point per credit" language so that the sentence reads: "Each Regional Priority credit is worth an additional 1 point, and a total of 4 additional points may be earned by achieving Regional Priority credits."	1/4/2016
5*	Path 1	SSc1	Site Selection	Remove parentheses surrounding "by an ASTM E1903-97 Phase II Environmental Site Assessment or a local voluntary cleanup program"	10/1/2012
5*	Path 1	SSc1	Site Selection	Add "Projects outside the U.S. may use a local equivalent to ASTM E1903-97 Phase II Environmental Site Assessment." after first sentence.	10/1/2012
5*	Path 1	SSc1	Site Selection	The second paragraph should read: "A building on a site classified as a brownfield by a local, state, tribal or national government agency, whichever is most stringent."	10/1/2012
8	Environmental Issues	SSc1	Site Selection	Revise the second paragraph to say, "Certification of a building under any of the Building Design and Construction Rating Systems or Building Operations and Maintenance Rating Systems signifies that building owners have already taken significant steps to protect ecosystems and biodiversity, conserve valuable resources, and provide healthful indoor environments for building occupants."	8/1/2011
9	13. Definitions	SSc1	Site Selection	In alphabetical order, add the term " <b>Building footprint</b> is the area on a project site used by the building structure, defined by the perimeter of the building plan. Parking lots, parking garages, landscapes, and other nonbuilding facilities are not included in the building footprint."	8/1/2011
11	13. Definitions, brownfield	SSc1	Site Selection	Replace "whose use" with "or the expansion, redevelopment, or reuse of which"	10/1/2012
28	6. Calculations	SSc1	Site Selection	In item 2, add "skylights" to the list of things deducted from the roof area so that the sentence reads, "Determine the area of the roof covered by mechanical equipment, solar energy panels, skylights, and other appurtenances, and deduct these areas from the total roof surface area."	8/1/2011

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29	9. Exemplary Performance	SSc1	Site Selection	Replace the term "photovoltaic panels" with "solar energy panels" and add "other appurtenances" to the list of things deducted from the roof area so that the sentence reads "Projects may earn an Innovation in Design (ID) credit for exemplary performance by demonstrating that 100% of the project's roof area (excluding any mechanical equipment, solar energy panels, skylights, and other appurtenances) consists of a vegetated roof system."	8/1/2011
30	13. Definitions	SSc1	Site Selection	In alphabetical order, add the term "An <b>appurtenance</b> is any built-in, nonstructural portion of a roof system, such as skylights, ventilators, mechanical equipment, partitions, and solar energy panels."	8/1/2011
30	13. Definitions, heat island effect	SSc1	Site Selection	In the second sentence, delete "Particularly in urban areas"; revise the last clause so that it reads, "Other sources may include vehicle exhaust, air-conditioners, and street equipment. Reduced airflow because of tall buildings and narrow streets exacerbate the effect."	10/1/2012
31	13. Definitions	SSc1	Site Selection	In alphabetical order, add the term, " <b>Roof area</b> is the area of the uppermost surface of the building which covers enclosed Gross Floor Area, as measured when projected onto a flat, horizontal surface (i.e. as seen in Roof Plan view). 'Roofs', or portions of roofs, covering unenclosed areas (e.g. roofs over porches and open covered parking structures) are not included in the areas used to evaluate compliance with Path 5, though they may be applicable to Path 4."	8/1/2011
31	13. Definitions, solar reflectance, or albedo	SSc1	Site Selection	Replace the definition of " <b>solar reflectance (SR)</b> " with "the fraction of solar energy that is reflected by a surface on a scale of 0 to 1. Black paint has a solar reflectance of 0; white paint (titanium dioxide) has a solar reflectance of 1. The standard technique for its determination uses spectrophotometric measurements, with an integrating sphere to determine the reflectance at each wavelength. The average reflectance is then determined by an averaging process, using a standard solar spectrum, as documented by ASTM Standards E903 and E892."	10/1/2012
42	13. Definitions, graywater	SSc1	Site Selection	Replace the definition of "graywater" with " <b>Graywater</b> is untreated household waste water which has not come into contact with toilet waste. Graywater typically includes used water from bathtubs, showers, bathroom wash basins, and water from clothes-washer and laundry tubs, though definitions may vary. Some states and local authorities also allow kitchen sink wastewater to be included in graywater. Project teams should comply with the graywater definition established by the authority having jurisdiction in the project area."	10/1/2012
52	13. Definitions, blackwater	SSc1	Site Selection	Replace the first sentence with, " <b>Blackwater</b> is wastewater containing urine or fecal matter that should be discharged to the sanitary drainage system of the building or premises in accordance with the International Plumbing Code."	10/1/2012

Page	Location	Credit	Credit Title	Issue	Post Date
52	13. Definitions, graywater	SSc1	Site Selection	Replace the definition of "graywater" with " <b>Graywater</b> is untreated household waste water which has not come into contact with toilet waste. Graywater typically includes used water from bathtubs, showers, bathroom wash basins, and water from clothes-washer and laundry tubs, though definitions may vary. Some states and local authorities also allow kitchen sink wastewater to be included in graywater. Project teams should comply with the graywater definition established by the authority having jurisdiction in the project area."	10/1/2012
76	13. Definitions	SSc2	Development Density and Community Connectivity	Replace the definition of " <b>Previously developed sites</b> " with "Previously developed sites are those altered by paving, construction, and/or land use that would typically have required regulatory permitting to have been initiated (alterations may exist now or in the past). Previously developed land includes a platted lot on which a building was constructed if the lot is no more than 1 acre; previous development on lots larger than 1 acre is defined as the development footprint and land alterations associated with the footprint. Land that is not previously developed and altered landscapes resulting from current or historical clearing or filling, agricultural or forestry use, or preserved natural area use are considered undeveloped land. The date of previous development permit issuance constitutes the date of previous development, but permit issuance in itself does not constitute previous development."	11/1/2011
<b>79*</b>	Option 1	SSc3.1	Alternative Transportation-Public Transportation Access	The Option 1 title should read: "OPTION 1. Rail Station, Bus Rapid Transit Station & Ferry Terminal Proximity"	10/1/2012
<b>79*</b>	Option 1	SSc3.1	Alternative Transportation-Public Transportation Access	Remove "or" before "subway station"	10/1/2012
<b>79*</b>	Option 1	SSc3.1	Alternative Transportation-Public Transportation Access	Add "bus rapid transit <sup>1</sup> station or commuter ferry terminal." to the end of the option.	10/1/2012

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79*	Option 1	SSc3.1	Alternative Transportation-Public Transportation Access	<p>After Option 2, add the following:</p> <p><b>“OR</b></p> <p><b>OPTION 3. Rideshare Proximity</b></p> <p>Projects outside the U.S. may locate the project within 1/4-mile (400-meter) walking distance (measured from a main building entrance) of 1 or more stops for 2 or more existing rideshare options<sup>2</sup> that that meet the definition of public transportation<sup>3</sup> and are authorized by the local transit authority if one exists.”</p>	10/1/2012
79*	Footnotes	SSc3.1	Alternative Transportation-Public Transportation Access	<p>Add the following footnotes to the bottom of the page:</p> <p><sup>1</sup>Bus rapid transit an enhanced bus system that operates on exclusive bus lanes or other transit rights-of-way; it is designed to combine the flexibility of buses with the efficiency of rail.</p> <p><sup>2</sup>Rideshare is a transit service that involves sharing a single vehicle with multiple people, excluding large-scale vehicles such as buses and trains. The rideshare transit facility must include a signed stop and a clearly defined waiting area. Additionally, the rideshare must include an enclosed passenger seating area, fixed route service, fixed fare structure, continuous daily operation, and the ability to pick up and drop off multiple riders. Rideshare options must hold 4 or more passengers, except for human-powered conveyances which must hold 2 or more passengers.</p> <p><sup>3</sup>Public transportation consists of bus, rail, or other transit services for the general public that operate on a regular, continual basis.</p>	10/1/2012
81	First paragraph	SSc3.1	Alternative Transportation – Public Transportation Access	Add the following sentence to the end of the first paragraph, "Shuttle buses should provide direct access to transit facilities within 2 miles of the project site, approximately a 5-10 minute drive, and must be available to all project occupants."	4/1/2012
91*	Case 1, Option 1	SSc3.3	Alternative Transportation – Parking Availability	Add a superscript for footnote 1 to each occurrence of the term "preferred parking".	11/1/2011
91*	Case 1, Option 1	SSc3.3	Alternative Transportation – Parking Availability	Add the following to footnote 1, "To establish a meaningful incentive in all potential markets, the parking rate must be discounted at least 20%. The discounted rate must be available to all eligible customers (i.e. not limited to the number of customers equal to 5% of the vehicle parking capacity), publicly posted at the entrance of the parking area, and available for a minimum of 2 years."	11/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date								
99*	Commercial Water Baseline Table	WEp1	Water Use Reduction	Add "Imperial Units" after "Current Baseline" in the second column	10/1/2012								
99*	Commercial Water Baseline Table	WEp1	Water Use Reduction	<div>Add a third column to the table, reading as follows:<table><tr><th>Current Baseline (Metric Units)</th></tr><tr><td>6 liters per flush (lpf)</td></tr><tr><td>Except blow-out fixtures: 13.5 lpf</td></tr><tr><td>4.0 lpf</td></tr><tr><td>8.5 liters per minute (lpm) at 4 bar (58 psi), private applications only (hotel or motel guest rooms, hospital patient rooms)</td></tr><tr><td>2.0 lpm at 4 bar (58 psi), all others except private applications</td></tr><tr><td>1 liter per cycle for metering faucets</td></tr><tr><td>Flow rate ≤ 6 lpm (no pressure specified; no performance requirement)</td></tr></table></div>	Current Baseline (Metric Units)	6 liters per flush (lpf)	Except blow-out fixtures: 13.5 lpf	4.0 lpf	8.5 liters per minute (lpm) at 4 bar (58 psi), private applications only (hotel or motel guest rooms, hospital patient rooms)	2.0 lpm at 4 bar (58 psi), all others except private applications	1 liter per cycle for metering faucets	Flow rate ≤ 6 lpm (no pressure specified; no performance requirement)	10/1/2012
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1 liter per cycle for metering faucets													
Flow rate ≤ 6 lpm (no pressure specified; no performance requirement)													
99*	Residential Water Baseline Table	WEp1	Water Use Reduction	Add "Imperial Units" after "Current Baseline" in the second column	10/1/2012								
99*	Residential Water Baseline Table	WEp1	Water Use Reduction	<div>Add a third column to the table, reading as follows:<table><tr><th>Current Baseline (Metric Units)</th></tr><tr><td>6 liters per flush (lpf)</td></tr><tr><td>8.5 lpm at 4 bar (58 psi)</td></tr><tr><td>9.5 lpm at 5.5 bar (80 psi) per shower stall</td></tr></table></div>	Current Baseline (Metric Units)	6 liters per flush (lpf)	8.5 lpm at 4 bar (58 psi)	9.5 lpm at 5.5 bar (80 psi) per shower stall	10/1/2012				
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9.5 lpm at 5.5 bar (80 psi) per shower stall													
104	6. Calculations, Calculating Occupancy	WEp1	Water Use Reduction	At the end of the section, insert the following text as a new paragraph: "For hospitality projects, FTE and transient occupants are calculated per the typical methodology for the respective occupancy types. Hotel guests may be determined based on the number and size of units in the project. Generally, assume 1.5 occupants per guest room and multiply the resulting total by 60% (average hotel occupancy per AH&LA information) to determine the total number of hotel guests. Alternatively, occupants may be derived from actual historical occupancy numbers. Fixture use assumptions for hotel guests follow the fixture assumptions for residential occupants. Accordingly, lavatories located in guest rooms are considered to be private lavatories. Additionally, day use guests at the hotel should be included in the value for transient / visitor occupants. Per typical fixture use assumptions, this category of occupants assumes zero shower uses throughout the day. Example: 123-room hotel Total Hotel Guests = 123*1.5 * 60% Total Hotel Guests = 111"	4/1/2013								
105	Table 2a	WEp1	Water Use Reduction	Replace the baseline in the related note below table with "Default duration for the metering type / autocontrol lavatory faucet is 0.25 gallons per cycle (gpc) for the baseline case and 12 seconds for the design case."	4/1/2013								

Page	Location	Credit	Credit Title	Issue	Post Date
106	6. Calculations, Eligible Fixtures	WEp1	Water Use Reduction	Below the first paragraph, enter the following text as a new paragraph: "For hospitality projects, commercial kitchen sinks and bar sinks including pot sinks, prep sinks, wash down, and cleaning sinks are considered process water and are not included in the water use calculations. Hand washing sinks located in commercial kitchen areas that do not pass through a grease interceptor should be included in the water use calculations under the kitchen sink category."	4/1/2013
106	Design Case Water Consumption	WEp1	Water Use Reduction	Private or private use applies to plumbing fixtures in residences, apartments, and dormitories; private (non-public) bathrooms in transient lodging facilities (hotels and motels); and private bathrooms [and patient rooms] within hospitals and nursing facilities.  Add the following to eligible fixtures section:  "For healthcare projects, fixtures used for clinical use related to medical procedures, such as surgical scrub sinks and exam rooms sinks, in hospitals and medical office buildings are excluded from the water use calculations. Medication room sinks, utility room sinks, and other exam/procedure/observation room sinks for clinical use are also excluded. Should exam/procedure/observation room sinks be used primarily for hand-washing, they may be included in the water use calculations at the project team's discretion under the public lavatory category. If included, project teams should provide a narrative explaining the usage assumptions for these sinks.  Lavatories in hospital inpatient bathrooms and inpatient rooms are considered private. The inpatient lavatory and water closet should use the default residential usage assumptions (of five times per day per residential occupant), unless specific project conditions warrant an alternative. Lavatories in hospital inpatient rooms (outside the bathrooms) are considered private if used by patients and/or staff similarly to a residential lavatory, or can be exempt if they are used by staff primarily for medical or clinical use.  Nutrition station (pantry) sinks and hospital staff lounge sinks should be included in the water use calculations under the kitchen sink category."	10/1/2014
109	13. Definitions	WEp1	Water Use Reduction	In alphabetical order, add the following definition for autocontrol faucets, <b>"Autocontrol faucets</b> have automatic fixture sensors or metering controls."	4/1/2012
111*	Commercial Water Baseline Table	WEc1	Water Use Reduction	Add "Imperial Units" after "Current Baseline" in the second column	10/1/2012

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111*	Commercial Water Baseline Table	WEc1	Water Use Reduction	Add a third column to the table, reading as follows:	10/1/2012
				Current Baseline (Metric Units)	
				6 liters per flush (lpf)	
				Except blow-out fixtures: 13.5 lpf	
				4.0 lpf	
				8.5 liters per minute (lpm) at 4 bar (58 psi), private applications only (hotel or motel guest rooms, hospital patient rooms)	
				2.0 lpm at 4 bar (58 psi), all others except private applications	
				1 liter per cycle for metering faucets	
Flow rate ≤ 6 lpm (no pressure specified; no performance requirement)					
111*	Residential Water Baseline Table	WEc1	Water Use Reduction	Add "Imperial Units" after "Current Baseline" in the second column	10/1/2012
111*	Residential Water Baseline Table	WEc1	Water Use Reduction	Add a third column to the table, reading as follows:	10/1/2012
				Current Baseline (Metric Units)	
				6 liters per flush (lpf)	
				8.5 lpm at 4 bar (58 psi)	
				9.5 lpm at 5.5 bar (80 psi) per shower stall	
137*	Requirements	EAp2	Minimum Energy Performance	In the second line of the fourth bulleted item, remove the superscript "2" after "equipment"	8/1/2011
137*	Requirements	EAp2	Minimum Energy Performance	Add the following sentence to the end of the first bullet: "Projects outside the U.S. may use a USGBC approved equivalent standard <sup>5</sup> ."	10/1/2012
137*	Requirements	EAp2	Minimum Energy Performance	Add "or USGBC approved equivalent." to the end of the second bullet.	10/1/2012
137*	Requirements	EAp2	Minimum Energy Performance	Add "or USGBC approved equivalent." after the parentheses in the third bullet.	10/1/2012
137*	Requirements	EAp2	Minimum Energy Performance	Add the following sentence after the second sentence in the fourth bullet: "Equipment that meets the same requirements as ENERGY STAR qualified products but does not bear the ENERGY STAR label is acceptable. Projects outside the U.S. may use a local equivalent to ENERGY STAR."	10/1/2012

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137*	Requirements	EAp2	Minimum Energy Performance	Add the following last paragraph:  For projects that registered after April 7, 2016 and are subject to the four point mandatory minimum, four points must also be earned in any of the four sub-sections of EA credit 1, Optimize Energy Performance.	7/1/2016
137*	Footnotes	EAp2	Minimum Energy Performance	Add the following footnote to the bottom of the page: "Projects outside the U.S. may use an alternative standard to ANSI/ASHRAE/IESNA Standard 90.1-2007 if it is approved by USGBC as an equivalent standard using the process located at <a href="http://www.usgbc.org/leedisglobal">www.usgbc.org/leedisglobal</a> "	10/1/2012
141	Section 9. Lighting Requirements (ASHRAE 90.1-2007)	EAp2	Minimum Energy Performance	Update second sentence to say "If the scope of the lighting work will replace less than half of the existing fixtures with new ones and will use no additional power, no other alterations are necessary"	11/1/2011
145	13. Definitions, baseline building performance	EAp2	Minimum Energy Performance	Replace the definition of "baseline building performance" with " <b>Baseline building performance</b> is the annual energy cost for a building design, used as a baseline for comparison with above-standard design."	10/1/2012
151	13. Definitions, chlorofluorocarbons (CFCs)	EAp3	Fundamental Refrigerant Management/CFC Reduction/Ozone Protection	Replace the definition of " <b>chlorofluorocarbons (CFCs)</b> " with "a compound of carbon, hydrogen, chlorine and fluorine, once commonly used in refrigeration, that depletes the stratospheric ozone layer."	10/1/2012
153*	Requirements	EAc1	Optimize Energy Performance	Add the following note:  MANDATORY POINT MINIMUM: Four points must be earned in this credit, but can come from any of the four sub-sections.	7/1/2016
162	6. Calculations	EAc1.2	Optimize Energy Performance, Lighting Controls	At the end of the section's text, add the following as a new paragraph:  "To calculate the percentage of daylight responsive controls as compared to the connected lighting load, supplemental task lighting may be excluded from the total connected lighting power (though if supplemental task lighting is controlled by daylight responsive controls, it must be included). However, to calculate the percentage of occupancy sensor controls as compared to the connected lighting load, task lighting that is required to be accounted for in the ASHRAE 90.1-2007 lighting power density calculations (that is, lighting that is not exempt per Section 9.2.2.3) must be included in the connected lighting load."	11/1/2011
165*	Option 2	EAc1.3	Optimize Energy Performance – HVAC	Add "Projects outside the U.S. may use a USGBC approved equivalent standard." to the end of the option.	10/1/2012



Page	Location	Credit	Credit Title	Issue	Post Date
165*	Option 2, Path 1	EAc1.3	Optimize Energy Performance – HVAC	Add “or USGBC approved equivalent” to the end of the sentence.	10/1/2012
165*	Option 2, Path 2	EAc1.3	Optimize Energy Performance – HVAC	Add “or USGBC approved equivalent” to the end of the sentence.	10/1/2012
165*	Footnotes	EAc1.3	Optimize Energy Performance – HVAC	Add the following footnote to the bottom of the page: “Projects outside the U.S. may use an alternative standard to ANSI/ASHRAE/IESNA Standard 90.1-2007 if it is approved by USGBC as an equivalent standard using the process located at <a href="http://www.usgbc.org/leedisglobal">www.usgbc.org/leedisglobal</a> ”	10/1/2012
172	STEP 7. Calculate the Energy Reduction	EAc1.3	Optimize Energy Performance – HVAC	Under "STEP 7", in the first sentence, changes the first "2" to "multiple" and the second "2" to "3". Replace the period with a comma at the end of last sentence in the first paragraph, and add "but should only be used if the central plants in the baseline and the design cases are modeled identically."	4/1/2012
172	STEP 7. Calculate the Energy Reduction	EAc1.3	Optimize Energy Performance – HVAC	Above "7. Documentation Guidance", add the following: Equation 3. Percent Annual HVAC Energy Cost Reduction For use when Central Plant improvements are included in the project scope. (See supplement document for equation: <a href="https://www.usgbc.org/ShowFile.aspx?DocumentID=18703">https://www.usgbc.org/ShowFile.aspx?DocumentID=18703</a> )	4/1/2012
173	8. Examples	EAc1.3	Optimize Energy Performance, HVAC	In the example listed in Table 3, the points earned for a 36.3% and a 15.8% reduction should be 10 and 5, respectively.	10/1/2013
177*	Requirements	EAc1.4	Optimize Energy Performance – Equipment and Appliances	Add the following sentence after the first sentence: “. Equipment that meets the same requirements as ENERGY STAR® qualified products but does not bear the ENERGY STAR® label is acceptable. Projects outside the U.S. may use a local equivalent to ENERGY STAR®.”	10/1/2012
181	6. Calculations, Step 2	EAc1.4	Optimize Energy Performance, Equipment and Appliances	Add the following sentence to the end of Step 2: For gas equipment, convert BTU/h to watts to compare power usage.	10/1/2012
187*	Requirements	EAc3	Measurement and Verification	Under CASE 2, replace language in its entirety with Options 1 and 2 from BD+C EA Credit 5: Measurement and Verification:  Option 1 Develop and implement a measurement and verification (M&V) plan consistent with Option D: Calibrated Simulation (Savings Estimation Method 2) as specified in the International Performance Measurement & Verification Protocol (IPMVP) Volume III: Concepts and Options for Determining Energy Savings in New Construction, April 2003.	4/1/2012

Page	Location	Credit	Credit Title	Issue	Post Date
				<p>The M&amp;V period must cover at least 1 year of post-construction occupancy.</p> <p>Provide a process for corrective action if the results of the M&amp;V plan indicate that energy savings are not being achieved.</p> <p>OR</p> <p>Option 2 Develop and implement a measurement and verification (M&amp;V) plan consistent with Option B: Energy Conservation Measure Isolation, as specified in the International Performance Measurement &amp; Verification Protocol (IPMVP) Volume III: Concepts and Options for Determining Energy Savings in New Construction, April 2003.</p> <p>The M&amp;V period must cover at least 1 year of post-construction occupancy.</p> <p>Provide a process for corrective action if the results of the M&amp;V plan indicate that energy savings are not being achieved."</p>	
197*	Option 1	EAc4	Green Power	Add "or an equivalent" to the end of the first sentence.	10/1/2012
197*	Option 1	EAc4	Green Power	Add the following after the second paragraph: "If the green power is not Green-e Energy certified, equivalence must exist for both major Green-e Energy program criteria: 1) current green power performance standards, and 2) independent, third-party verification that those standards are being met by the green power supplier over time."	10/1/2012
197*	Option 2	EAc4	Green Power	Add "or an equivalent" to the end of the first sentence.	10/1/2012
197*	Option 2	EAc4	Green Power	Add the following after the second paragraph: "If the green power is not Green-e Energy certified, equivalence must exist for both major Green-e Energy program criteria: 1) current green power performance standards, and 2) independent, third-party verification that those standards are being met by the green power supplier over time."	10/1/2012
197*	Requirements-Option 2	EAc4	Green Power	<p>Revise the metric conversion in the first paragraph to:</p> <p>"8 kilowatt hours per square foot per year (86.1 kilowatt hours per square meter per year)"</p>	10/1/2013

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200	6. Calculations	EAc4	Green Power	After the first sentence, add the following: "If an energy model was used to document compliance with EAc1.3: Optimize Energy Performance, HVAC, the data from the energy model must be used as the basis for determining the electricity consumption for this credit."	4/1/2012
250	8. Examples	MRc4	Recycled Content	In Table 4, delete the first row entirely reading "Total Construction Cost" and in the second row change "Default Total Materials Cost (45% of total Construction Cost)" to "Total Materials Cost".	10/1/2013
253*	Option 1	MRc5	Regional Materials	Add the following after the first sentence: "OR  Use a minimum of 20% of the combined value of construction and Division 12 (Furniture) materials and products that are manufactured regionally within a 500 mile (800 kilometer) total travel distance of the project site using a weighted average determined through the following formula:  (Distance by rail/3) + (Distance by inland waterway/2) + (Distance by sea/15) + (Distance by all other means) ≤ 500 miles [800 kilometers]"	10/1/2012
253*	Option 2	MRc5	Regional Materials	Add "AND" after "Meet the requirements for Option 1."	10/1/2012
253*	Option 2	MRc5	Regional Materials	Add the following to the end of the option: " OR  Use a minimum of 10% of the combined value of construction and Division 12 (Furniture) materials and products extracted, harvested or recovered, as well as manufactured regionally within a 500 mile (800 kilometer) total travel distance of the project site using a weighted average determined through the following formula:  (Distance by rail/3) + (Distance by inland waterway/2) + (Distance by sea/15) + (Distance by all other means) ≤ 500 miles [800 kilometers]"	10/1/2012
259*	Requirements	MRc6	Rapidly Renewable Materials	In the third line of the paragraph, replace "plants" with "agricultural products"	8/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date
272	Assemblies	MRc7	Certified Wood	*This is an update to addenda ID # 100000099 originally posted July 19, 2010* In the first sentence of the first paragraph replace, "such as windows and furniture systems that combine wood and nonwood materials" with "such as windows, doors, and some furniture that combine multiple material types, only the new wood portion can be applied toward the credit."	7/19/2010 (Updated 8/1/2011)
275	13. Definitions, chain of custody	MRc7	Certified Wood	Replace the definition of " <b>chain-of-custody (COC)</b> " with "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. A chain-of-custody certificate number on invoices for nonlabeled products indicates that the certifier's guidelines for product accounting have been followed. A chain-of-custody certification is not required by distributors of a product that is individually labeled with the Forest Stewardship Council logo and manufacturer's chain-of-custody number. Chain of Custody (CoC) certification requirements are determined by Forest Stewardship Council Chain of Custody Standard 40-004 v2-1."	10/1/2012
<b>281*</b>	Case 1	IEQp1	Minimum Indoor Air Quality Performance	Add " <b>OPTION 1. ASHRAE Standard 62.1-2007 or Non-U.S. Equivalent</b> " directly under "CASE 1. Mechanically Ventilated Spaces"	10/1/2012
<b>281*</b>	Case 1	IEQp1	Minimum Indoor Air Quality Performance	Add "Projects outside the U.S. may use a local equivalent to ASHRAE Standard 62.1-2007 for breathing zone minimum ventilation rates." to the end of the first paragraph.	10/1/2012

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281*	Case 1	IEQp1	Minimum Indoor Air Quality Performance	<p>Add the following after the first paragraph:</p> <p>“OR</p> <p><b>OPTION 2. CEN Standard EN 15251: 2007</b></p> <p>Projects outside the U.S. may modify or maintain each outside air intake, supply air fan and/or ventilation distribution system to supply at least the outdoor air ventilation rate required by Annex B of Comité Européen de Normalisation (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.”</p>	10/1/2012
281*	Case 1	IEQp1	Minimum Indoor Air Quality Performance	Replace “ASHRAE Standard 62.1-2007 (with errata but without addenda)” with “the above standards” in the last paragraph of the case.	10/1/2012
291*	Option 2 Case 2	IEQp2	Environmental Tobacco Smoke (ETS) Control	Add the following to the end of the third paragraph: “Projects outside the U.S. may use a local equivalent to ANSI/ASTM-E779-03, Standard Test Method for Determining Air Leakage Rate By Fan Pressurization.”	10/1/2012
291*	Option 2 Case 2	IEQp2	Environmental Tobacco Smoke (ETS) Control	Add the following after the first sentence of the fourth paragraph: “Projects outside the U.S. may use a local sampling methodology, whichever is more stringent.”	10/1/2012
297*	Case 1	IEQc1	Outdoor Air Delivery Monitoring	Replace “as defined by ASHRAE Standard 62.1-2007 (with errata but without addenda)” with “based on the value determined in IEQ Prerequisite 1: Minimum Indoor Air Quality Performance” in the second paragraph.	10/1/2012
303	Definitions	IEQc1	Outdoor Air Delivery Monitoring	Revise the definition for <b>densely occupied spaces</b> to be, “Densely occupied spaces are areas with a design occupant density of 25 people or more per 1,000 square feet (40 square feet or less per person).”	11/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date
303	Definitions	IEQc1	Outdoor Air Delivery Monitoring	In alphabetical order, add the following definition for <b>non-densely occupied space</b> , "Non-densely occupied spaces are areas with a design occupant density of less than 25 people per 1,000 square feet (40 square feet or more per person)."	11/1/2011
303	Definitions	IEQc1	Outdoor Air Delivery Monitoring	In alphabetical order, add the following definition for <b>nonoccupied spaces</b> , "Nonoccupied spaces are defined as spaces designed for equipment and machinery or storage with no human occupancy except for maintenance, repairs, and equipment retrieval."	11/1/2011
303	Definitions	IEQc1	Outdoor Air Delivery Monitoring	In alphabetical order, add the following definition for <b>occupied spaces</b> , "Occupied Spaces are defined as enclosed spaces that can accommodate human activities. Occupied spaces are further classified as regularly occupied or non-regularly occupied spaces based on the duration of the occupancy, individual or multi-occupant based on the quantity of occupants, and densely or non-densely occupied spaces based upon the concentration of occupants in the space."	11/1/2011
<b>305*</b>	Case 1	IEQc2	Increased Ventilation	Add " <b>OPTION 1. ASHRAE Standard 62.1-2007 or Non-U.S. Equivalent</b> " directly under "CASE 1. Mechanically Ventilated Spaces"	10/1/2012
<b>305*</b>	Case 1	IEQc2	Increased Ventilation	Add "Projects outside the U.S. may use a local equivalent to ASHRAE Standard 62.1-2007, if the same is used for IEQ Prerequisite 1: Minimum Indoor Air Quality Performance." to the end of the first paragraph.	10/1/2012
<b>305*</b>	Case 1	IEQc2	Increased Ventilation	Add the following after the first paragraph: <b>"OR</b> <b>OPTION 2. CEN Standard EN 15251: 2007</b> Projects outside the U.S. may earn this credit by increasing breathing zone outdoor air ventilation rates to all occupied spaces by at least 30% above the minimum rates required by Annex B of Comité Européen de Normalisation (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, as determined by IEQ Prerequisite 1: Minimum Indoor Air Quality Performance."	10/1/2012

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305*	Case 2 Option 1	IEQc2	Increased Ventilation	Add "CIBSE or Non-U.S. Equivalent" to the "Option 1" heading.	10/1/2012
305*	Case 2 Option1	IEQc2	Increased Ventilation	Path 1 should read: "Use CIBSE Applications Manual 10: 2005, Natural Ventilation in Non-domestic Buildings. Projects outside the U.S. may use a local equivalent."	10/1/2012
305*	Case 2 Option 1	IEQc2	Increased Ventilation	Path 2 should read: "Use CIBSE AM 13:2000, Mixed Mode Ventilation. Projects outside the U.S. may use a local equivalent."	10/1/2012
305*	Case 2 Option 2	IEQc2	Increased Ventilation	Add "Airflow Model" to the "Option 2" heading.	10/1/2012
305*	Case 2 Option 2	IEQc2	Increased Ventilation	In the first paragraph, replace "Chapter 6" with "section 6"	10/1/2012
305*	Case 2 Option 2	IEQc2	Increased Ventilation	Add the following to the end of the option: "Projects outside the U.S. may use Annex B of Comité Européen de Normalisation (CEN) Standard EN 15251: 2007, or a local equivalent to section 6 of ASHRAE Standard 62.1-2007 to define the minimum ventilation rates."	10/1/2012
315*	Requirements	IEQc3.1	Construction Indoor Air Quality Management Plan – During Construction	The third bullet should read as follows: "If permanently installed air handlers are used during construction, filtration media must be used at each return air grille that meets one of the following criteria below. Replace all filtration media immediately prior to occupancy."	10/1/2012

Page	Location	Credit	Credit Title	Issue	Post Date
315*	Requirements	IEQc3.1	Construction Indoor Air Quality Management Plan – During Construction	Add three bullets, indented, below the third bullet.	10/1/2012
315*	Requirements	IEQc3.1	Construction Indoor Air Quality Management Plan – During Construction	The first new bullet should read: “Filtration media with a minimum efficiency reporting value (MERV) of 8 as determined by ASHRAE Standard 52.2-1999 (with errata but without addenda)”	10/1/2012
315*	Requirements	IEQc3.1	Construction Indoor Air Quality Management Plan – During Construction	The second new bullet should read: “Filtration media is Class F5 or higher, as defined by CEN Standard EN 779-2002, Particulate air filters for general ventilation, Determination of the filtration performance”	10/1/2012
315*	Requirements	IEQc3.1	Construction Indoor Air Quality Management Plan – During Construction	The third new bullet should read: “Filtration media with a minimum dust spot efficiency of 30% or higher and greater than 90% arrestance on a particle size of 3–10 µg”	10/1/2012
326	4. Implementation	IEQc3.2	Construction IAQ Management Plan- Before Occupancy	In the first paragraph, replace the second sentence "Finalize all cleaning prior to the flush-out." with "Have all movable furnishings in place and finalize all cleaning prior to the flush-out."	10/1/2012
330	13. Definitions	IEQc3.2	Construction Indoor Air Quality Management Plan – Before Occupancy	In alphabetical order, add the following definition for <b>nonoccupied spaces</b> , "Nonoccupied spaces are defined as spaces designed for equipment and machinery or storage with no human occupancy except for maintenance, repairs, and equipment retrieval."	11/1/2011
330	13. Definitions	IEQc3.2	Construction Indoor Air Quality Management Plan – Before Occupancy	In alphabetical order, add the following definition for <b>occupied spaces</b> , "Occupied Spaces are defined as enclosed spaces that can accommodate human activities. Occupied spaces are further classified as regularly occupied or non-regularly occupied spaces based on the duration of the occupancy, individual or multi-occupant based on the quantity of occupants, and densely or non-densely occupied spaces based upon the concentration of occupants in the space."	11/1/2011



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336	Definitions, sealant	IEQc4.1	Low-Emitting Materials-Adhesives and Sealants	Add the following sentence to the end of " <b>sealant</b> " definition, "Sealants are used on wood, fabric, paper, corrugated paperboard, plastic foam and other materials with tiny openings, often microscopic, that may absorb or discharge gas or fluid."	10/1/2012
336	13. Definitions, volatile organic compounds (VOCs)	IEQc4.1	Low-Emitting Materials-Adhesives and Sealants	Replace the definition of " <b>volatile organic compounds (VOC's)</b> " with "a carbon compound that vaporizes (becomes a gas) at normal room temperatures. VOCs contribute to air pollution directly and through atmospheric photochemical reactions (excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonates, and ammonium carbonate) to produce secondary air pollutants, principally ozone and peroxyacetyl nitrate."	10/1/2012
339	3. Summary of Referenced Standards, Table 1.	IEQc4.2	Low-Emitting Materials-Paints and Coatings	Edit the "Primer" items in Table 1 with the ones in the supplementary document: <a href="http://www.usgbc.org/resources/ieqc42-table-1-applicable-voc-limits">http://www.usgbc.org/resources/ieqc42-table-1-applicable-voc-limits</a>	10/1/2013
341	13. Definitions, volatile organic compounds (VOCs)	IEQc4.2	Low-Emitting Materials-Paints and Coatings	Replace the definition of " <b>volatile organic compounds (VOC's)</b> " with "a carbon compound that vaporizes (becomes a gas) at normal room temperatures. VOCs contribute to air pollution directly and through atmospheric photochemical reactions (excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonates, and ammonium carbonate) to produce secondary air pollutants, principally ozone and peroxyacetyl nitrate."	10/1/2012
<b>343*</b>	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	The first bullet should read: "All carpet installed in the building interior must meet one of the following requirements:"	10/1/2012
<b>343*</b>	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	Add three bullets, indented, below the first bullet	10/1/2012
<b>343*</b>	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	The first new bullet should read: "Meets the testing and product requirements of the Carpet and Rug Institute Green Label Plus program."	10/1/2012

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343*	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	The second new bullet should read: “Maximum VOC concentrations are less than or equal to those specified in the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda, using the office scenario as defined in Table 7.5 within the practice. The additional VOC concentration limits listed in Section 9.1a must also be met.”	10/1/2012
343*	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	The third new bullet should read: “Maximum VOC concentrations meet the California requirements specified above based on the following: <ul style="list-style-type: none"> <li>○ California Department of Public Health (CDPH) Standard Method V1.1-2010 using test results obtained at the 14 day time point</li> <li>○ Projects outside the U.S. may use the German AgBB/DIBt testing method and all testing methods based on AgBB/DIBt method (GUT, EMICODE, Blue Angel) using test results obtained at the 3 day or 7 day or 14 day time point. For caprolactam, if test results obtained at the 3 day or 7 day time point is used, the emission concentration must be less than ½ of the concentration limit specified above because the emission may not have peaked at the measured time points.”</li> </ul>	10/1/2012
343*	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	Add a paragraph below the third new bullet that reads: “If a European testing method (AgBB/DIBt GUT, EMICODE, Blue Angel) had used parameters for calculating test results different from those specified in the referenced California method, then the European test results for carpets or floorings need to be converted into California air concentrations by multiplication with 0.7.”	10/1/2012

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343*	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	The fourth original bullet should read “All hard surface flooring installed in the building interior must meet one of the following requirements:”	10/1/2012
343*	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	Add three new bullets below the fourth original bullet.	10/1/2012
343*	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	The first new bullet should read: “Meet the requirements of the Floor Score standard (current as of the date of this rating system, or more stringent version) as shown with testing by an independent third-party.”	10/1/2012
343*	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	The second new bullet should read: “Demonstrate maximum VOC concentrations less than or equal to those specified in the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda, using the office scenario as defined in Table 7.5 within the practice.”	10/1/2012

Page	Location	Credit	Credit Title	Issue	Post Date
343*	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	<p>The third new bullet should read:</p> <p>“Maximum VOC concentrations meet the California requirements specified above based on the following:</p> <ul style="list-style-type: none"> <li>○ California Department of Public Health (CDPH) Standard Method V1.1-2010 using test results obtained at the 14 day time point</li> <li>○ Projects outside the U.S. may use the German AgBB/DIBt testing method and all testing methods based on AgBB/DIBt method (GUT, EMICODE, Blue Angel) using test results obtained at the 3 day or 7 day or 14 day time point. For caprolactam, if test results obtained at the 3 day or 7 day time point is used, the emission concentration must be less than ½ of the concentration limit specified above because the emission may not have peaked at the measured time points.”</li> </ul>	10/1/2012
343*	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	<p>Add a new paragraph after the third new bullet that reads:</p> <p>“If a European testing method (AgBB/DIBt GUT, EMICODE, Blue Angel) had used parameters for calculating test results different from those specified in the referenced California method, then the European test results for carpets or floorings need to be converted into California air concentrations by multiplication with 0.7.”</p>	10/1/2012

Page	Location	Credit	Credit Title	Issue	Post Date
343*	Option 1	IEQc4.3	Low-Emitting Materials – Flooring Systems	<p>Below the final bullet, add the following:</p> <p>■ For carpet adhesive, concrete, wood, bamboo and cork floor finishes, and tile setting adhesives, compliance can be demonstrated with test results of:</p> <ul style="list-style-type: none"> <li>• Total volatiles fraction, based on one of the following, provided that water and exempt compounds are subtracted from total volatiles test results and the mass VOC content is calculated consistent with SCAQMD Rule 1113 and Rule 1168: <ul style="list-style-type: none"> <li>○ ASTM D2369</li> <li>○ EPA method 24</li> <li>○ ISO 11890 part 1</li> </ul> </li> <li>• Total volatile organic compounds fraction, based on one of the following, provided that all VOCs with a boiling point up to 280°C (536°F) are included, and exempt compounds are subtracted from total volatiles test results and the mass VOC content is calculated consistent with SCAQMD Rule 1113 and Rule 1168. <ul style="list-style-type: none"> <li>○ ASTM D6886</li> <li>○ ISO 11890 part 2</li> </ul> </li> </ul>	10/1/2012
344	3. Summary of Referenced Standards	IEQc4.3	Low-Emitting Materials- Flooring Systems	Under "Carpet and Rug Institute (RCI) Green Label Plus Testing Program, replace " <a href="http://www.carpet-rug.com">http://www.carpet-rug.com</a> " with " <a href="http://www.carpet-rug.org">http://www.carpet-rug.org</a> ."	10/1/2012
347	13. Definitions, volatile organic compounds (VOCs)	IEQc4.3	Low-Emitting Materials- Flooring Systems	Replace the definition of " <b>volatile organic compounds (VOC's)</b> " with "a carbon compound that vaporizes (becomes a gas) at normal room temperatures. VOCs contribute to air pollution directly and through atmospheric photochemical reactions (excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonates, and ammonium carbonate) to produce secondary air pollutants, principally ozone and peroxyacetyl nitrate."	10/1/2012

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352	13. Definitions, urea-formaldehyde	IEQc4.4	Low-Emitting Materials-Composite Wood and Agrifiber Products/Laminate Adhesives	Replace the definition of " <b>urea-formaldehyde</b> " with "a combination of urea and formaldehyde used in some glues and adhesives, particularly in composite wood products. At room temperature, ureaformaldehyde emits formaldehyde, a toxic and possibly carcinogenic gas."	10/1/2012
357	13. Definitions, volatile organic compounds (VOCs)	IEQc4.5	Low-Emitting Materials-Furniture and Furnishings/Seating	Replace the definition of " <b>volatile organic compounds (VOC's)</b> " with "a carbon compound that vaporizes (becomes a gas) at normal room temperatures. VOCs contribute to air pollution directly and through atmospheric photochemical reactions (excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonates, and ammonium carbonate) to produce secondary air pollutants, principally ozone and peroxyacetyl nitrate."	10/1/2012
<b>359*</b>	Requirements	IEQc5	Indoor Chemical and Pollutant Source Control	<p>The second indented bullet below the third bullet should read:</p> <ul style="list-style-type: none"> <li>○ "These filters or devices shall meet one of the following criteria: <ul style="list-style-type: none"> <li>○ Filtration media is rated at a minimum efficiency reporting value (MERV) of 13 or higher in accordance with ASHRAE Standard 52.2</li> <li>○ Filtration media is Class F7 or higher, as defined by CEN Standard EN 779: 2002, Particulate air filters for general ventilation, Determination of the filtration performance</li> <li>○ Filtration media has a minimum dust spot efficiency of 80% or higher and greater than 98% arrestance on a particle size of 3–10 µg."</li> </ul> </li> </ul>	10/1/2012
372	13. Definitions	IEQc6.1	Controllability of Systems – Lighting	Revise the definition for <b>individual occupant spaces</b> to be, "In individual occupant spaces, occupants perform distinct tasks from one another. Such spaces may be contained within multi-occupant spaces and should be treated separately where possible. Individual occupant spaces may be regularly or non-regularly occupied spaces."	11/1/2011
372	13. Definitions	IEQc6.1	Controllability of Systems – Lighting	In alphabetical order, add the following definition <b>for multi-occupant spaces</b> , "Multi-Occupant Spaces are places of egress, congregation, or where occupants pursue overlapping or collaborative tasks. Multi occupant spaces may be regularly or non-regularly occupied spaces."	11/1/2011

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373*	Requirements	IEQc6.2	Controllability of Systems – Thermal Comfort	Add a new paragraph below the first paragraph that reads: “Conditions for thermal comfort are described in IEQ credit 7.1: Thermal Comfort—Design and include the primary factors of air temperature, radiant temperature, air speed and humidity.”	10/1/2012
373*	Requirements	IEQc6.2	Controllability of Systems – Thermal Comfort	Delete the final sentence under requirements.	10/1/2012
378	Definitions	IEQc6.2	Controllability of Systems – Thermal Comfort	Revise the definition for <b>individual occupant spaces</b> to be, “In individual occupant spaces, occupants perform distinct tasks from one another. Such spaces may be contained within multi-occupant spaces and should be treated separately where possible. Individual occupant spaces may be regularly or non-regularly occupied spaces.”	11/1/2011
378	Definitions	IEQc6.2	Controllability of Systems – Thermal Comfort	In alphabetical order, add the following definition for <b>multi-occupant spaces</b> , “Multi-Occupant Spaces are places of egress, congregation, or where occupants pursue overlapping or collaborative tasks. Multi occupant spaces may be regularly or non-regularly occupied spaces.”	11/1/2011
379*	Requirements	IEQc7.1	Thermal Comfort – Design	The Requirements section should read as follows: “Design heating, ventilating and air-conditioning (HVAC) systems to meet the requirements of one of the options below.”	10/1/2012
379*	Requirements	IEQc7.1	Thermal Comfort – Design	Add a new option that reads: <b>“OPTION 1. ASHRAE Standard 55-2004 or Non-U.S. Equivalent</b>  Meet the requirements of ASHRAE Standard 55-2004, Thermal Comfort Conditions for Human Occupancy (with errata but without addenda). Demonstrate design compliance in accordance with the Section 6.1.1 documentation. Projects outside the U.S. may use a local equivalent to ASHRAE Standard 55-2004 Thermal Comfort Conditions for Human Occupancy Section 6.1.1.”	10/1/2012

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379*	Requirements	IEQc7.1	Thermal Comfort – Design	<p>Add a new option that reads:  <b>“OPTION 2. ISO 7730: 2005 &amp; CEN Standard EN 15251: 2007</b></p> <p>Projects outside the U.S. may earn this credit by designing heating, ventilating and air conditioning (HVAC) systems and the building envelope to meet the requirements of International Organization for Standardization (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 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.”</p>	10/1/2012
385	Definitions	IEQc7.1	Thermal Comfort - Design	In alphabetical order, add the following definition for <b>nonoccupied spaces</b> , "Nonoccupied spaces are defined as spaces designed for equipment and machinery or storage with no human occupancy except for maintenance, repairs, and equipment retrieval."	11/1/2011
387*	Requirements	IEQc7.2	Thermal Comfort – Verification	Replace “ASHRAE Standard 55-2004 (with errata but without addenda)” with “the standard used for design in IEQ Credit 7.1: Thermal Comfort – Design.”	10/1/2012
392	Definitions	IEQc7.2	Thermal Comfort - Verification	In alphabetical order, add the following definition for <b>nonoccupied spaces</b> , "Nonoccupied spaces are defined as spaces designed for equipment and machinery or storage with no human occupancy except for maintenance, repairs, and equipment retrieval."	11/1/2011
405	Definitions	IEQc8.1	Daylight and Views – Daylight	In alphabetical order, add the following definition for <b>non-regularly occupied space</b> , "Non-regularly occupied spaces are spaces that occupants pass through, or spaces used in pursuit of focused activities for less than one hour per person per day (on average)."	11/1/2011
405	Definitions	IEQc8.1	Daylight and Views – Daylight	In alphabetical order, add the following definition for <b>nonoccupied spaces</b> , "Nonoccupied spaces are defined as spaces designed for equipment and machinery or storage with no human occupancy except for maintenance, repairs, and equipment retrieval."	11/1/2011



Page	Location	Credit	Credit Title	Issue	Post Date
405	Definitions	IEQc8.1	Daylight and Views – Daylight	Revise the definition for <b>regularly occupied spaces</b> to be, "Regularly occupied spaces are areas where one or more individuals normally spend time (more than one hour per person per day on average) seated or standing as they work, study, or perform other focused activities inside a building."	11/1/2011
413	13. Definitions	IEQc8.2	Daylight and Views – Views for Seated Spaces	In alphabetical order, add the following definition for <b>non-regularly occupied space</b> , "Non-regularly occupied spaces are spaces that occupants pass through, or spaces used in pursuit of focused activities for less than one hour per person per day (on average)."	11/1/2011
413	13. Definitions	IEQc8.2	Daylight and Views – Views for Seated Spaces	In alphabetical order, add the following definition for <b>nonoccupied spaces</b> , "Nonoccupied spaces are defined as spaces designed for equipment and machinery or storage with no human occupancy except for maintenance, repairs, and equipment retrieval."	11/1/2011
413	13. Definitions	IEQc8.2	Daylight and Views – Views for Seated Spaces	Revise the definition for <b>regularly occupied spaces</b> to be, "Regularly occupied spaces are areas where one or more individuals normally spend time (more than one hour per person per day on average) seated or standing as they work, study, or perform other focused activities inside a building."	11/1/2011
429	Glossary	n/a	n/a	In alphabetical order, add the term "An <b>appurtenance</b> is any built-in, nonstructural portion of a roof system, such as skylights, ventilators, mechanical equipment, partitions, and solar energy panels."	8/1/2011
430	Glossary	n/a	n/a	In alphabetical order, add the following definition for autocontrol faucets, " <b>Autocontrol faucets</b> have automatic fixture sensors or metering controls."	4/1/2012
430	Glossary, baseline building performance	n/a	n/a	Replace the definition of "baseline building performance" with " <b>Baseline building performance</b> is the annual energy cost for a building design, used as a baseline for comparison with above-standard design."	10/1/2012
430	Glossary, blackwater	n/a	n/a	Replace the first sentence with, " <b>Blackwater</b> is wastewater containing urine or fecal matter that should be discharged to the sanitary drainage system of the building or premises in accordance with the International Plumbing Code."	10/1/2012
430	Glossary, brownfield	n/a	n/a	Replace "whose use" with "or the expansion, redevelopment, or reuse of which"	10/1/2012

Page	Location	Credit	Credit Title	Issue	Post Date
431	Glossary, chain of custody	n/a	n/a	Replace the definition of " <b>chain-of-custody (COC)</b> " with "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. A chain-of-custody certificate number on invoices for nonlabeled products indicates that the certifier's guidelines for product accounting have been followed. A chain-of-custody certification is not required by distributors of a product that is individually labeled with the Forest Stewardship Council logo and manufacturer's chain-of-custody number. Chain of Custody (CoC) certification requirements are determined by Forest Stewardship Council Chain of Custody Standard 40-004 v2-1."	10/1/2012
431	Glossary, chlorofluorocarbons (CFCs)	n/a	n/a	Replace the definition of " <b>chlorofluorocarbons (CFCs)</b> " with "a compound of carbon, hydrogen, chlorine and fluorine, once commonly used in refrigeration, that depletes the stratospheric ozone layer."	10/1/2012
431	Glossary, Building footprint	n/a	n/a	Revise the text for "Building footprint" to " <b>Building footprint</b> is the area on a project site used by the building structure, defined by the perimeter of the building plan. Parking lots, parking garages, landscapes, and other nonbuilding facilities are not included in the building footprint."	8/1/2011
433	Glossary	n/a	n/a	Revise the definition for <b>densely occupied spaces</b> to be, "Densely occupied spaces are areas with a design occupant density of 25 people or more per 1,000 square feet (40 square feet or less per person)."	11/1/2011
436	Glossary, graywater	n/a	n/a	Replace the definition of "graywater" with " <b>Graywater</b> is untreated household waste water which has not come into contact with toilet waste. Graywater typically includes used water from bathtubs, showers, bathroom wash basins, and water from clothes-washer and laundry tubs, though definitions may vary. Some states and local authorities also allow kitchen sink wastewater to be included in graywater. Project teams should comply with the graywater definition established by the authority having jurisdiction in the project area."	10/1/2012

Page	Location	Credit	Credit Title	Issue	Post Date
437	Glossary	n/a	n/a	In alphabetical order, add the term " <b>Gross floor area</b> (based on ASHRAE definition) is the sum of the floor areas of the spaces within the building, including basements, mezzanine and intermediate-floored tiers, and penthouses with headroom height of 7.5 ft (2.2 meters) or greater. Measurements must be taken from the exterior 39 faces of exterior walls OR from the centerline of walls separating buildings, OR (for LEED CI certifying spaces) from the centerline of walls separating spaces. Excludes non-enclosed (or non-enclosable) roofed-over areas such as exterior covered walkways, porches, terraces or steps, roof overhangs, and similar features. Excludes air shafts, pipe trenches, and chimneys. Excludes floor area dedicated to the parking and circulation of motor vehicles. (Note that while excluded features may not be part of the gross floor area, and therefore technically not a part of the LEED project building, they may still be required to be a part of the overall LEED project and subject to MPRs, prerequisites, and credits.)	8/1/2011
437	Glossary, heat island effect	n/a	n/a	In the second sentence, delete "Particularly in urban areas"; revise the last clause so that it reads, "Other sources may include vehicle exhaust, air-conditioners, and street equipment. Reduced airflow because of tall buildings and narrow streets exacerbate the effect."	10/1/2012
438	Glossary	n/a	n/a	Revise the definition for <b>individual occupant spaces</b> to be, "In individual occupant spaces, occupants perform distinct tasks from one another. Such spaces may be contained within multi-occupant spaces and should be treated separately where possible. Individual occupant spaces may be regularly or non-regularly occupied spaces."	11/1/2011
441	Glossary	n/a	n/a	Replace the definition for <b>group multioccupant spaces</b> with the following definition for <b>multi-occupant space</b> , "Multi occupant spaces are places of egress, congregation, or where occupants pursue overlapping or collaborative tasks. Multi occupant spaces may be regularly or non-regularly occupied spaces."	11/1/2011
441	Glossary	n/a	n/a	In alphabetical order, add the following definition for <b>non-densely occupied</b> space, "Non-densely occupied spaces are areas with a design occupant density of less than 25 people per 1,000 square feet (40 square feet or more per person)."	11/1/2011
441	Glossary	n/a	n/a	In alphabetical order, add the following definition for <b>non-regularly occupied</b> space, "Non-regularly occupied spaces are spaces that occupants pass through, or spaces used in pursuit of focused activities for less than one hour per person per day (on average)."	11/1/2011
441	Glossary	n/a	n/a	Revise the definition for <b>nonoccupied spaces</b> to be, "Nonoccupied spaces are defined as spaces designed for equipment and machinery or storage with no human occupancy except for maintenance, repairs, and equipment retrieval."	11/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date
441	Glossary	n/a	n/a	In alphabetical order, add the following definition for <b>occupied spaces</b> , "Occupied spaces are defined as enclosed spaces that can accommodate human activities. Occupied spaces are further classified as regularly occupied or non-regularly occupied spaces based on the duration of the occupancy, individual or multi-occupant based on the quantity of occupants, and densely or non-densely occupied spaces based upon the concentration of occupants in the space."	11/1/2011
443	Glossary, postconsumer material			Replace the definition of " <b>postconsumer material</b> " with "waste generated by end users (households or commercial, industrial and institutional facilities) of a product no longer able to be used for its intended purpose that is recycled into raw material for a new product."	10/1/2012
444	Glossary	n/a	n/a	Replace the definition of " <b>Previously developed sites</b> " with "Previously developed sites are those altered by paving, construction, and/or land use that would typically have required regulatory permitting to have been initiated (alterations may exist now or in the past). Previously developed land includes a platted lot on which a building was constructed if the lot is no more than 1 acre; previous development on lots larger than 1 acre is defined as the development footprint and land alterations associated with the footprint. Land that is not previously developed and altered landscapes resulting from current or historical clearing or filling, agricultural or forestry use, or preserved natural area use are considered undeveloped land. The date of previous development permit issuance constitutes the date of previous development, but permit issuance in itself does not constitute previous development."	11/1/2011
445	Glossary	n/a	n/a	Revise the definition for <b>regularly occupied spaces</b> to be, "Regularly occupied spaces are areas where one or more individuals normally spend time (more than one hour per person per day on average) seated or standing as they work, study, or perform other focused activities inside a building."	11/1/2011
446	Glossary	n/a	n/a	In alphabetical order, add the term, " <b>Roof area</b> is the area of the uppermost surface of the building which covers enclosed Gross Floor Area, as measured when projected onto a flat, horizontal surface (i.e. as seen in Roof Plan view). 'Roofs', or portions of roofs, covering unenclosed areas (e.g. roofs over porches and open covered parking structures) are not included in the areas used to evaluate compliance with Path 5, though they may be applicable to Path 4."	8/1/2011

Page	Location	Credit	Credit Title	Issue	Post Date
446	Glossary, sealant	n/a	n/a	Add the following sentence to the end of " <b>sealant</b> " definition, "Sealants are used on wood, fabric, paper, corrugated paperboard, plastic foam and other materials with tiny openings, often microscopic, that may absorb or discharge gas or fluid."	10/1/2012
446	Glossary, solar reflectance, albedo	n/a	n/a	Replace the definition of " <b>solar reflectance, albedo</b> " with "the fraction of solar energy that is reflected by a surface on a scale of 0 to 1. Black paint has a solar reflectance of 0; white paint (titanium dioxide) has a solar reflectance of 1. The standard technique for its determination uses spectrophotometric measurements, with an integrating sphere to determine the reflectance at each wavelength. The average reflectance is then determined by an averaging process, using a standard solar spectrum, as documented by ASTM Standards E903 and E892."	10/1/2012
448	Glossary, urea formaldehyde	n/a	n/a	Replace the definition of " <b>urea-formaldehyde</b> " with "a combination of urea and formaldehyde used in some glues and adhesives, particularly in composite wood products. At room temperature, ureaformaldehyde emits formaldehyde, a toxic and possibly carcinogenic gas."	10/1/2012
449	Glossary, volatile organic compounds (VOCs)	n/a	n/a	Replace the definition of " <b>volatile organic compounds (VOC's)</b> " with "a carbon compound that vaporizes (becomes a gas) at normal room temperatures. VOCs contribute to air pollution directly and through atmospheric photochemical reactions (excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonates, and ammonium carbonate) to produce secondary air pollutants, principally ozone and peroxyacetyl nitrate."	10/1/2012

\*Shaded rows denote rating system changes. The purpose of these rating system changes within the rating system portions of the *LEED Reference Guide for Green Interior Design and Construction* is to align with the Rating System.

Note: The online version of the rating system takes precedent over the rating system portions of the LEED Reference Guides in project guidance and application; project teams are required to adhere to the rating system and rating system addenda effective at the time of the project's registration date.