



DOCUMENT ADDENDA

For the documents titled: **LEED Reference Guide for Green Neighborhood Development, 2009 Edition**

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
35	Requirements, Option 3	SLLp1	Smart Location	<p>Replace the first sentence of the second paragraph with the following: "Projects must meet the requirements for both weekday and weekend trips and provide service every day. Commuter rail must serve more than one metropolitan statistical area (MSA) and/or the area surrounding the core of an MSA (or a local equivalent for projects outside the U.S.)"</p> <p>Replace all instances of "square footage" with "floor area"</p>	7/1/2014
38	Requirements, Option 3	SLLp1	Smart Location	Under section a, behind "the Federal Transit Administration" add: "(or equivalent national agency for projects outside the U.S.)"	7/1/2014
38	Requirements, Option 3	SLLp1	Smart Location Required	Under Section c, in the first paragraph under the "OR" section, replace "municipality" with "local government."	7/1/2014
53	Requirements, FOR ALL PROJECTS	SLLp2	Imperiled Species and Ecological Communities Conservation	<p>In the first paragraph behind 'state fish and wildlife agencies' add "(or a local equivalent for projects outside the United States)"</p> <p>Add the following statement at the end of the first sentence: "(local equivalent standards for threatened and endangered species may be used by projects outside the U.S. if the site area is not covered by NatureServe data)."</p>	7/1/2014
53	Requirements, Option 2	SLLp2	Imperiled Species and Ecological Communities Conservation	Behind "the Endangered Species Act" add "(or a local equivalent for projects outside the U.S.)"	7/1/2014

Page	Location	Credit	Credit Title	Issue	Post Date						
53	Requirements, Option 3	SLLp2	Imperiled Species and Ecological Communities Conservation	<p>Replace first paragraph with the following: "Work with a qualified biologist, a conservation organization, or the appropriate national, state, or local agency to create and implement a conservation plan that includes the following actions:"</p> <p>Under Section b. add "conservation organization" behind "an accredited land trust" and replace "public" with "government"</p> <p>Under Section d. add "conservation organization" behind "an accredited land trust" and replace "public" with "government"</p>	7/1/2014						
61	Requirements	SLLp3	Wetland and Water Body Conservation	<p>Table 1.</p> <p>Add a second column, "Residential density (DU/hectare)," with the following values:</p> <table><tr><th>Residential density (DU/hectare)</th></tr><tr><td>> 62</td></tr><tr><td>> 45 and ≤ 62</td></tr><tr><td>> 25 and ≤ 45</td></tr><tr><td>> 25</td></tr></table>	Residential density (DU/hectare)	> 62	> 45 and ≤ 62	> 25 and ≤ 45	> 25	7/1/2014	
Residential density (DU/hectare)											
> 62											
> 45 and ≤ 62											
> 25 and ≤ 45											
> 25											
71	Requirements	SLLp4	Agriculture Land Conservation	<p>Table 1.</p> <p>Add a second column, Residential density (DU per hectare of buildable land available for residential use), with the following values:</p> <table><tr><th>Residential density (DU per hectare of buildable land available for residential use)</th></tr><tr><td>> 17.5 and ≤ 21</td></tr><tr><td>> 21 and ≤ 25</td></tr><tr><td>> 25 and ≤ 28.5</td></tr><tr><td>> 28.5 and ≤ 32</td></tr><tr><td>> 32</td></tr></table>	Residential density (DU per hectare of buildable land available for residential use)	> 17.5 and ≤ 21	> 21 and ≤ 25	> 25 and ≤ 28.5	> 28.5 and ≤ 32	> 32	7/1/2014
Residential density (DU per hectare of buildable land available for residential use)											
> 17.5 and ≤ 21											
> 21 and ≤ 25											
> 25 and ≤ 28.5											
> 28.5 and ≤ 32											
> 32											

Page	Location	Credit	Credit Title	Issue	Post Date					
				<div>Table 2. Add a second column, Residential density (DU per hectare of buildable land available for residential use), with the following values:</div> <table><tr><th>Residential density (DU per hectare of buildable land available for residential use)</th></tr><tr><td>> 17.5 and ≤ 20</td></tr><tr><td>> 20 and ≤ 22</td></tr><tr><td>> 22 and ≤ 25</td></tr><tr><td>> 25</td></tr></table>	Residential density (DU per hectare of buildable land available for residential use)	> 17.5 and ≤ 20	> 20 and ≤ 22	> 22 and ≤ 25	> 25	
Residential density (DU per hectare of buildable land available for residential use)										
> 17.5 and ≤ 20										
> 20 and ≤ 22										
> 22 and ≤ 25										
> 25										
79	Requirements, Option 1	SLLp5	Floodplain Avoidance	Add a sentence: "For projects in places without legally adopted flood hazard maps or legal designations, locate on a site that is entirely outside any floodplain subject to a 1% or greater chance of flooding in any given year."	7/1/2014					
79	Requirements, Option 2	SLLp5	Floodplain Avoidance	<div>Add "(or a local equivalent for projects outside the U.S.)" behind all instances of "Federal Emergency Management Agency (FEMA)."</div> <div>Add "(or a local equivalent for projects outside the U.S.)" behind "National Flood Insurance Program (NFIP)"</div>	7/1/2014					
79	Requirements Option 2	SLLp5	Floodplain Avoidance	<div>Delete "as defined by FEMA" from the last sentence.</div> <div>Add a section:</div> <div>"OR</div> <div>For any portion of the site within the flood hazard area, design buildings in accordance with American Society of Civil Engineers Standard 24-05 (ASCE 24). If the project includes construction of a critical facility that is intended to remain operational in the event of a flood, or whose function is critical for post flood recovery, design the facility to be protected and operable at the floodwater levels specified in ASCE 24, or at the water levels represented by a 0.2% annual chance (500-year) flood, whichever is higher. For the purpose of this requirement, critical facilities include, but are not limited to, hospitals, emergency operations centers, building or portions of buildings designated as emergency shelters, water and sewage treatment facilities, and fire and police stations."</div>	7/1/2014					

Page	Location	Credit	Credit Title	Issue	Post Date						
79	Requirements, Option 3	SLLp5	Floodplain Avoidance	<p>Delete "as defined by FEMA" from the last sentence</p> <p>Add a section:</p> <p>"OR</p> <p>For any portion of the site within the flood hazard area, design buildings in accordance with American Society of Civil Engineers Standard 24-05 (ASCE 24) or local floodplain management entity. If the project includes construction of a critical facility that is intended to remain operational in the event of a flood, or whose function is critical for post flood recovery, design the facility to be protected and operable at the floodwater levels specified in ASCE 24, or at the water levels represented by a 0.2% annual chance (500-year) flood, whichever is higher. For the purpose of this requirement, critical facilities include, but are not limited to, hospitals, emergency operations centers, building or portions of buildings designated as emergency shelters, water and sewage treatment facilities, and fire and police stations."</p> <p>Add "(54 intersections/square kilometer)" behind "140 intersections per square mile" Standard 24-05 (ASCE 24) or local floodplain management entity.</p>	7/1/2014						
85	Requirements, Option 2	SLLc1	Preferred Locations	<p>Table 1.</p> <p>Add a second column, "Intersections per square kilometer," with the following values:</p> <table><tr><th>Intersections per square kilometer</th></tr><tr><td>≥ 78 and < 97</td></tr><tr><td>≥97 and < 116</td></tr><tr><td>≥116 and < 135</td></tr><tr><td>≥135 and < 154</td></tr><tr><td>≥ 154</td></tr></table>	Intersections per square kilometer	≥ 78 and < 97	≥97 and < 116	≥116 and < 135	≥135 and < 154	≥ 154	7/1/2014
Intersections per square kilometer											
≥ 78 and < 97											
≥97 and < 116											
≥116 and < 135											
≥135 and < 154											
≥ 154											

Page	Location	Credit	Credit Title	Issue	Post Date
85	Requirements, Option 2	SLLc1	Preferred Locations	Under the second bullet, delete "In addition" Add "or a local equivalent program administered at the national level for projects outside the United States" behind "Difficult Development Area (DDA)."	7/1/2014
95	Requirements, Option 1	SLLc2	Brownfield Redevelopment	Option 1 Add "a local equivalent for projects outside the U.S" behind "Phase II Environmental Site Assessment" Replace "federal" with "national" and "public" with "government" Option 2 Add "or a local equivalent program administered at the national level for projects outside the United States" behind "Difficult Development Area (DDA)."	7/1/2014
101	Requirements, Option 1	SLLc3	Locations with Reduced Automobile Dependence	Replace the last paragraph with the following: "Projects must meet the requirements for both weekday and weekend trips and provide service every day. Commuter rail must serve more than one metropolitan statistical area (MSA) and/or the area surrounding the core of an MSA (or a local equivalent for projects outside of the U.S.)"	7/1/2014
102	Requirements, Option 2	SLLc3	Locations with Reduced Automobile Dependence	Add "(or a local equivalent for projects outside the U.S.)" behind all instances of Metropolitan Planning Organization (MPO) and Transportation Analysis Zone (TAZ) Replace all instances of "Vehicle Miles Traveled 'VMT'" with "Vehicle distance traveled"	7/1/2014
109	Requirements	SLLc4	Bicycle Network and Storage	Replace all instances of "Vehicle Miles Traveled 'VMT'" with "Vehicle distance traveled" Under "Bicycle Storage" section add "(or equivalent)" behind "Provide secure visitor bicycle racks" Below Section c. add "or secured" behind "Secure, enclosed bicycle storage areas must be locked..." Add a last sentence to the second to last paragraph "Any alternative to bicycle racks must ensure bikes will be stored safely and access to these bikes must be convenient for visitors and customers."	7/1/2014

Page	Location	Credit	Credit Title	Issue	Post Date
131	Requirements, Option 1 and Option 2	SLLc7	Site Design for Wetland and Water Body Conservation	<p>Add "or local equivalent for projects outside the U.S." behind "the state fish and wildlife agency"</p> <p>Delete "nongovernmental."</p> <p>Add "local" before "agency."</p> <p>Add "conservation organization" after "to an accredited land trust."</p> <p>Under Section a. add the following statement behind 'NatureServe': "(local equivalent standards for threatened and endangered species may be used by projects outside the U.S. if the site area is not covered by NatureServe data.)"</p> <p>Under section b. replace "some of the 150 acres" with "part of the area"</p>	7/1/2014
132	Requirements, Option 3 and FOR ALL PROJECTS	SLLc7	Site Design for Wetland and Water Body Conservation	<p>Replace the last sentence of the first paragraph with the following: "Do not disturb wetlands, water bodies, or their buffers, and protect them from development in perpetuity by donating or selling the land, or a conservation easement on the land, to an accredited land trust, conservation organization, or relevant government agency (a deed covenant is not sufficient to meet this requirement)."</p> <p>FOR ALL PROJECTS</p> <p>Delete "or regional" from Section d.</p>	7/1/2014
153	Requirements	NPDp1	Walkable Streets	<p>Replace all instances of "Vehicle Miles Traveled 'VMT'" with "Vehicle distance traveled"</p> <p>Section b. Forth bullet delete the following statement: "Building height is measured to eaves or the top of the roof for a flat-roof structure, and street width is measured façade to façade."</p> <p>Add : "(or a local equivalent for projects outside the U.S.)" after the National Register of Historic Places or National Park Service</p>	7/1/2014

Page	Location	Credit	Credit Title	Issue	Post Date							
199	Requirements Table 1 column 2 heading	NPDc2	Compact Development	<p>Table 1. Add second column, Residential density (DU/hectare), with the following values"</p> <table><tr><th>Residential density (DU/hectare)</th></tr><tr><td>> 25 and ≤ 32</td></tr><tr><td>> 32 and ≤ 45</td></tr><tr><td>> 45 and ≤ 62</td></tr><tr><td>> 62 and ≤ 94</td></tr><tr><td>> 94 and ≤ 156</td></tr><tr><td>> 156</td></tr></table> <p>Replace all instances of "the total square footage" with "the total floor area."</p>	Residential density (DU/hectare)	> 25 and ≤ 32	> 32 and ≤ 45	> 45 and ≤ 62	> 62 and ≤ 94	> 94 and ≤ 156	> 156	7/1/2014
Residential density (DU/hectare)												
> 25 and ≤ 32												
> 32 and ≤ 45												
> 45 and ≤ 62												
> 62 and ≤ 94												
> 94 and ≤ 156												
> 156												
223	Requirements	NPDc5	Reduced Parking Footprint	Add "(or equivalent)" after each instance of "bicycle racks"	7/1/2014							
230	Requirements, Table 1	NPDc6	Street Network	<p>Table 1. Add second column, "Street intersections per square kilometer", with the following values:</p> <table><tr><th>Street intersections per square kilometer</th></tr><tr><td>> 116 and ≤ 154</td></tr><tr><td>> 154</td></tr></table>	Street intersections per square kilometer	> 116 and ≤ 154	> 154	7/1/2014				
Street intersections per square kilometer												
> 116 and ≤ 154												
> 154												
235	Requirements	NPDc7	Transit Facilities	<p>Under the first paragraph, replace "square footage" with "floor area"</p> <p>Add last sentence: "Any alternative to bicycle racks must ensure bikes will be stored safely and access to these bikes must be convenient for visitors and customers."</p>	7/1/2014							

Page	Location	Credit	Credit Title	Issue	Post Date																								
239	Requirements, Option 3	NPDc8	Transportation Demand Management	<p>Under the first paragraph, replace all instances of "square footage" with "floor area"</p> <p>Under the second paragraph add last sentence: "Any alternative to bicycle racks must ensure bikes will be stored safely and access to these bikes must be convenient for visitors and customers."</p>	7/1/2014																								
271	Requirements	NPDc 13	Local Food Production	<p>Table1.</p> <p>Add a second column, "Project density (DU/hectare) and a fourth column, "Growing space (sqm/DU)" with the following values:</p> <table><thead><tr><th>Project density (DU/acre)</th><th>Project density (DU/hectare)</th><th>Growing space (sf/DU)</th><th>Growing space (sqm/DU)</th></tr></thead><tbody><tr><td>> 7 and ≤14</td><td>> 17.5 and ≤ 35</td><td>200</td><td>18.5</td></tr><tr><td>> 14 and ≤ 22</td><td>> 35 and ≤ 55</td><td>100</td><td>9</td></tr><tr><td>> 22 and ≤ 28</td><td>> 55 and ≤ 69</td><td>80</td><td>7.5</td></tr><tr><td>> 28 and ≤ 35</td><td>> 69 and ≤ 86.5</td><td>70</td><td>6.5</td></tr><tr><td>> 35</td><td>> 86.5</td><td>60</td><td>5.5</td></tr></tbody></table>	Project density (DU/acre)	Project density (DU/hectare)	Growing space (sf/DU)	Growing space (sqm/DU)	> 7 and ≤14	> 17.5 and ≤ 35	200	18.5	> 14 and ≤ 22	> 35 and ≤ 55	100	9	> 22 and ≤ 28	> 55 and ≤ 69	80	7.5	> 28 and ≤ 35	> 69 and ≤ 86.5	70	6.5	> 35	> 86.5	60	5.5	7/1/2014
Project density (DU/acre)	Project density (DU/hectare)	Growing space (sf/DU)	Growing space (sqm/DU)																										
> 7 and ≤14	> 17.5 and ≤ 35	200	18.5																										
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> 28 and ≤ 35	> 69 and ≤ 86.5	70	6.5																										
> 35	> 86.5	60	5.5																										
287	Requirements	NPDc 15	Neighborhood Schools	<p>Replace "building square footage" with "building floor area"</p> <p>Replace "allowable acreage" with "allowable land area"</p>	7/1/2014																								
313-314	Requirements	GI Bp2	Minimum Building Energy Efficiency	<p>Replace the second paragraph with the following: "New buildings must demonstrate an average 10% improvement over ANSI/ASHRAE/IESNA Standard 90.1–2007,with errata but without addenda, (or a USGBC-approved equivalent standard for projects outside the United States). Buildings undergoing major renovations must demonstrate an average 5% improvement over ANSI/ASHRAE/IESNA Standard 90.1–2007. For projects outside the United States, consult ANSI/ASHRAE /IESNA Standard 90.1–2007, Appendixes B and D, to determine the appropriate climate zone."</p>	7/1/2014																								

Page	Location	Credit	Credit Title	Issue	Post Date
				<p>Add the following statement: "(or a USGBC- approved equivalent standard for projects outside the United States.)" behind each requirement for using Appendix G of ANSI/ASHRAE/IESNA Standard 90.1–2007"</p> <p>Add the following last sentence under the second paragraph and Section a: "For projects outside the United States, consult ANSI/ASHRAE /IESNA Standard 90.1–2007, Appendixes B and D, to determine the appropriate climate zone."</p> <p>Add the following statement: "(or a USGBC- approved equivalent standard for projects outside the United States.)" to the last paragraph, behind: "Home Energy Rating System (HERS)" index.</p>	
313	Requirements	GIBp3	Minimum Building Water Efficiency	Add "United States" in front of "Energy Policy Act of 1992" Under the third paragraph replace "square footage" with "area"	7/1/2014
327	Requirements	GIBp4	Construction Activity Pollution Prevention	<p>Replace last paragraph with the following:</p> <p>"Select BMPs that are consistent with Green Infrastructure and Low Impact Development (LID) strategies such as the Washington State Department of Ecology's <i>Stormwater Management Manual for Western Washington, Volume II, Construction Stormwater Pollution Prevention</i> (2005 edition), or a local equivalent. Choose BMPs that are the most stringent and appropriate to the project site and region. BMPs must comply with all national, state, and local erosion and sedimentation control regulations."</p>	7/1/2014
337-338	Requirements	GIBc2	Building Energy Efficiency	<p>Replace the second paragraph with the following: "New buildings must demonstrate an average 10% improvement over ANSI/ASHRAE/IESNA Standard 90.1–2007, with errata but without addenda, (or a USGBC-approved equivalent standard for projects outside the United States). Buildings undergoing major renovations must demonstrate an average 5% improvement over ANSI/ASHRAE/IESNA Standard 90.1–2007. For projects outside the United States, consult ANSI/ASHRAE /IESNA Standard 90.1–2007, Appendixes B and D, to determine the appropriate climate zone."</p> <p>Add the following statement at the end of Section a: "(or a USGBC- approved equivalent standard for projects outside the United States.)" behind each requirement for using Appendix G of</p>	7/1/2014

Page	Location	Credit	Credit Title	Issue	Post Date
				<p>ANSI/ASHRAE/IESNA Standard 90.1–2007”\n\n</p> <p>Add the following last sentence under Section b: "For projects outside the United States, consult ANSI/ASHRAE /IESNA Standard 90.1–2007, Appendixes B and D, to determine the appropriate climate zone.”\n\n</p> <p>Add the following statement: "(or USGBC- approved equivalent standard for projects outside the United States) for new buildings and 8% better for existing building renovations." under the second to last paragraph, behind: "Buildings pursuing (b) or (c) will be credited at 12% better than ANSI/ASHRAE/IESNA Standard 90.1–2007”\n\n</p> <p>Add the following statement: "(or a USGBC- approved equivalent)" to the last paragraph, behind "Home Energy Rating System (HERS)" index.</p>	
345	Requirements	GIBc3	Building Water Efficiency	<p>Add "United States" in front of "Energy Policy Act of 1992"</p> <p>Under the third paragraph replace "square footage" with "area"</p>	7/1/2014
351	Requirements	GIBc4	Water Efficient Landscaping	<p>Under the first paragraph replace “a calculated midsummer baseline case” with “a calculated baseline for the site’s peak watering month.”</p> <p>Under Section e replace “public agency” with “government agency”</p>	7/1/2014
361	Requirements, FOR ALL PROJECTS	GIBc5	Existing Building Reuse	<p>Add the following statement: "or contributing buildings in a historic district" after: "Do not demolish any historic buildings..."</p> <p>Add the following statement: "(or a local equivalent for projects outside the U.S.) after National Register of Historic Places and the State Historic Preservation Office.</p>	7/1/2014
367	Requirements	GIBc6	Historic Resource Preservation and Adaptive Use	<p>Add the following statement: "(or a local equivalent for projects outside the U.S.) after National Register of Historic Places and the State Historic Preservation Office or or National Park Service\n\n</p> <p>Replace third paragraph with the following: "If any cultural landscapes or historic buildings in the project site to be rehabilitated, restored, or preserved, rehabilitate in accordance with local review, or national standards for rehabilitation, whichever is more restrictive, using one of the following approaches: "</p>	7/1/2014

Page	Location	Credit	Credit Title	Issue	Post Date				
				<p>Under Section b., Replace “federal funds” with “government funds” Replace “state” historic with “national” historic</p> <p>Under Section c, Replace “federal” or local board review with “national” or local board. Replace “who meets the federal qualifications” with “who meets the U.S. federal, or accepted national, qualifications”</p>					
375	Requirements, Option 2	GIBc7	Minimized Site Disturbance in Design and Construction	<p>Table 1. Add a second column, "Residential density (DU/hectare)," with the following values:</p> <table><tr><th>Residential density (DU/hectare)</th></tr><tr><td>< 37</td></tr><tr><td>37 - 52</td></tr><tr><td>> 52</td></tr></table>	Residential density (DU/hectare)	< 37	37 - 52	> 52	7/1/2014
Residential density (DU/hectare)									
< 37									
37 - 52									
> 52									
383-384	Requirements	GIBc8	Stormwater Management	<p>Replace the forth paragraph with the following: "Replace entire paragraph with “Select BMPs that are consistent with Green Infrastructure and Low Impact Development (LID)strategies such as the Washington State Department of Ecology’s Stormwater management Manual for Western Washington, Volume V, Runoff Treatment (2005 edition) or a local equivalent. Choose BMPs that are the most stringent and appropriate to the project site and region. BMPs must also comply with all national, state, and local regulations.”</p>	7/1/2014				
413	Requirements	GIBc12	District Heating and Cooling	<p>In the first sentence of the second paragraph, add the following statement: "(or a USGBC approved equivalent standard for projects outside of the U.S.)" behind "Each system component that is addressed by ANSI/ASHRAE/IESNA Standard 90.1–2007..."</p>	7/1/2014				
463	Requirements	GIBc17	Light Pollution Reduction	<p>Table 2.\nAdd a forth column, "Maximum horizontal and vertical illuminance (lux) at specified distance beyond site boundary," with the following values:</p>	7/1/2014				

Page	Location	Credit	Credit Title	Issue	Post Date						
				<table><tr><th>Maximum horizontal and vertical illuminance (lux) at specified distance beyond site boundary</th></tr><tr><td>0 at 0 mm</td></tr><tr><td>.1 at 3 mm</td></tr><tr><td>.2 at 3 m</td></tr><tr><td>.5 at 4.5 m</td></tr><tr><td>.5 at 4.5 m</td></tr></table>	Maximum horizontal and vertical illuminance (lux) at specified distance beyond site boundary	0 at 0 mm	.1 at 3 mm	.2 at 3 m	.5 at 4.5 m	.5 at 4.5 m	
Maximum horizontal and vertical illuminance (lux) at specified distance beyond site boundary											
0 at 0 mm											
.1 at 3 mm											
.2 at 3 m											
.5 at 4.5 m											
.5 at 4.5 m											

*Shaded rows denote rating system changes. The purpose of these rating system changes within the rating system portions of the *LEED Reference Guide for Neighborhood Development* is to align with the LEED 2009 Rating System that comprises the guide.

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.