



LEED 2009 for Commercial Interiors

SS Credit 1: Site Selection

All fields and uploads are required unless otherwise noted.

ALL OPTIONS

This static sample form has been modified for offline access. All sections of the form are visible. Sample forms are for reference only.

Select one of the following:

- ☐ **Option 1.** The project space is located in a LEED certified building.
- ☐ **Option 2.** The project space is located in a building with other environmentally beneficial characteristics.

LEED CERTIFIED BUILDING

Compliance with this option is documented in PI Form 5.

Project eligible for SS Credit 1: Site Selection Option 1

SS Credit 1: Site Selection Points Documented:

BUILDING WITH OTHER ENVIRONMENTALLY BENEFICIAL CHARACTERISTICS

Select all that apply:

- ☐ **Path 1.** Brownfield Redevelopment (1 point)
- ☐ **Path 2.** Stormwater Design - Quantity Control (1 point)
- ☐ **Path 3.** Stormwater Design - Quality Control (1 point)
- ☐ **Path 4.** Heat Island Effect - NonRoof (1 point)
- ☐ **Path 5.** Heat Island Effect - Roof (1 point)
- ☐ **Path 6.** Light Pollution Reduction (1 point)
- ☐ **Path 7.** Water Efficient Landscaping - Reduce by 50% (2 points)
- ☐ **Path 8.** Water Efficient Landscaping - No Potable Use or No Irrigation (2 points)
- ☐ **Path 9.** Innovative Wastewater Technologies (2 points)
- ☐ **Path 10.** Water Use Reduction - 30% Reduction (1 point)
- ☐ **Path 11.** Onsite Renewable Energy (up to 2 points)
- ☐ **Path 12.** Exemplary Performance and Other Quantifiable Environmental Performance (1 point)

Provide the following information as it pertains to the building in which the project is located.

PATH 1. BROWNFIELD REDEVELOPMENT

Project site condition at the time of development of the building that the LEED project is located in took place:

Upload SSc1-1. Provide a letter from the environmental consultant or applicable regulatory agency stating that remediation has been achieved at the site to meet residential (unrestricted) use.

Path 1. Brownfield Redevelopment Points Documented:

PATH 2. STORMWATER DESIGN - QUANTITY CONTROL

Select one of the following:

- ☐ **Case 1.** Sites with existing imperviousness 50% or less.
- ☐ **Case 2.** Sites with existing imperviousness more than 50%.

CASE 1. EXISTING IMPERVIOUSNESS 50% OR LESS

Table SSc1-1. Site Runoff: 1½-Year, 24-Hour Design Storm

| | Rate (cfs) | Quantity (cf/storm) |
|-----------------|------------|---------------------|
| Predevelopment | | |
| Postdevelopment | | |

- ☐ The postdevelopment site runoff rate and quantity reported above does not exceed the predevelopment site runoff rate and quantity for the one and a half-year 24-hour design storm.

Upload SSc1-2. Provide a summary of the stormwater management plan to be implemented at the site, including:

1. Description of the stormwater management strategies.
2. Calculations supporting the runoff values reported above.

CASE 2. EXISTING IMPERVIOUSNESS MORE THAN 50%

Table SSc1-2. Site Runoff: 1½-Year, 24-Hour Design Storm

| | Rate (cfs) | Quantity (cf/storm) |
|---|------------|---------------------|
| Predevelopment | | |
| Postdevelopment | | |
| Percent reduction (Must be at least 25%) | | |

- ☐ This project documents compliance with this credit by following the LEED-NC 2009 requirements. The alternative compliance path has been chosen below and the appropriate NC credit form and any additional required documentation has been uploaded. (Optional)

Path 2. Stormwater Design: Quantity - Control Points Documented:

PATH 3. STORMWATER DESIGN - QUALITY CONTROL

Table SSc1-3. TSS Removal Efficiency

List the TSS removal efficiencies for the Best Management Practices (BMP's) implemented at the project. The table will calculate the weighted TSS removal efficiency for each BMP based on the percentage of the site that the BMP treats. The table will also calculate BMP's that operate in a simple series. For more complex situations (such as two BMPs into one), either simplify the interactions to fit the table, or provide additional calculations in the Special Circumstances section of the form.

| BMP Type/Label | BMP Description and/or Location | In Series with BMP Above? | Percent Site Treated by BMP | TSS Removal Efficiency (%) | Source of TSS Removal Efficiency data | Weighted Average TSS Removal Efficiency (%) |
|--|---------------------------------|---------------------------|-----------------------------|----------------------------|---------------------------------------|---|
| | | | | | | |
| Total weighted average TSS removal efficiency (must be at least 80%) | | | | | | |

- ☐ The BMP's listed in the table are designed to treat stormwater runoff from 90% of the average annual rainfall.
- ☐ This project documents compliance with this credit by following the LEED-NC 2009 requirements. The alternative compliance path has been chosen below and the appropriate NC credit form and any additional required documentation has been uploaded. (Optional)

Path 3. Stormwater Design: Quality - Control Points Documented:

PATH 4. HEAT ISLAND EFFECT - NONROOF

A site or landscape plan identifying hardscape and/or parking areas is required to document credit compliance. The site plan below is a linked submittal. (If no document is present, upload a site plan which meets the above requirements.)

Upload L-2. Provide the site plan for the project.

Select one of the following:

- ☐ The site plan above identifies the hardscape and/or parking areas.
- ☐ A different site plan is better suited to satisfy this requirement.

Upload SSc1-4. Provide a site or landscape plan identifying the hardscape and/or parking areas.

Select all that apply:

- ☐ A combination of hardscape mitigation strategies cover at least 30% of the site hardscape.
- ☐ At least 50% of parking spaces are under cover.
- ☐ An open-grid pavement system (less than 50% impervious) covers at least 50% of the parking lot area.

HARDSCAPE MITIGATION STRATEGIES COVER AT LEAST 30% OF SITE HARDSCAPE

Select one of the following:

- ☐ Materials with a high SRI value are used to meet the required threshold.
- ☐ No materials with a high SRI value are used to meet the required threshold.

Table SSc1-4. High SRI Materials

In the table below, enter either the known SRI value (actual SRI) or the known reflectance and emittance values (calculated SRI).

| Material Description | Square footage (sf) | Reflectance (0-1) | Emittance (0-1) | SRI value (actual or calculated) | |
|--------------------------------------|---------------------|-------------------|-----------------|----------------------------------|--|
| | | | | | |
| Total qualifying square footage (sf) | | | | | |

Table SSc1-5. Mitigated Hardscape

| | |
|--|--|
| Total area of all non-roof hardscape surfaces on project site (sf) | |
| Total area of all hardscape surfaces with open-grid paving system (at least 50% pervious) (sf) | |
| Total area of hardscape features with an SRI of at least 29 (sf) | |
| Total hardscape area that is either currently shaded by existing landscaping/trees or will be shaded within 5 years by landscaping /trees that will be in place at the time of building occupancy (sf) | |
| Percentage of mitigated site hardscape (must be at least 30%) | |

AT LEAST 50% OF PARKING SPACES ARE UNDER COVER

Table SSc1-6. Parking Spaces Under Cover

Complete the table below. Shaded area may count towards no more than one strategy. If a strategy is not used, enter "0"

| | |
|---|--|
| Number of underground spaces | |
| Number of spaces covered by structured parking | |
| Number of spaces under cover | |
| Total number of spaces | |
| Percentage of parking spaces under cover (must be at least 50%) | |

OPEN-GRID PAVEMENT SYSTEM

Table SSc1-7. Open-Grid Pavement

| | |
|--|--|
| Total area of all non-roof hardscape surfaces on project site (sf) | |
| Total area of all hardscape surfaces with open-grid paving system (at least 50% pervious) (sf) | |
| Percentage of mitigated site hardscape: open-grid pavement (must be at least 30%) | |

Path 4. Heat Island Effect- Nonroof Points Documented:

PATH 5. HEAT ISLAND EFFECT - ROOF

Select one of the following:

- ☐ The project team has installed roofing with high SRI materials for a minimum of 75% of the roof area.
- ☐ The project team has installed a vegetated roof covering at least 50% of the roof area.
- ☐ The project team has installed a combination of high SRI materials and vegetated roof.

A Licensed Professional Exemption (LPE) for a Registered Architect is available in lieu of a roof plan and product information.

Select one of the following:

- ☒ Streamlined Path: LPE (RA).
- ☐ Full Documentation Path.

Upload SSc1-5. Provide the roof plan. (Optional)

Upload SSc1-6. Provide product information in the form of manufacturer cutsheets. (Optional)

Table SSc1-8. High SRI Roof Materials

| Material Description / ID | Square Footage (sf) | Reflectance (0-1) | Emittance (0-1) | SRI value (actual or calculated) | | Roof Slope | Percent compliant (%) |
|--|---------------------|-------------------|-----------------|----------------------------------|--|------------|-----------------------|
| | | | | | | | |
| Total roof area (sf) (excluding mechanical equipment, photovoltaic panels, and skylights) | | | | | | | |
| SRI compliant area (must be at least 75%) | | | | | | | |

A Licensed Professional Exemption (LPE) for a Registered Architect is available in lieu of a roof plan.

Select one of the following:

- ☒ Streamlined Path: LPE (RA).
- ☐ Full Documentation Path.

Upload SSc1-5. Provide the roof plan. (Optional)

Total roof area (excluding mechanical equipment,photovoltaic panels and skylights):

sf

Total vegetated roof area.

sf

Percentage of roof area that is vegetated [%]:

A Licensed Professional Exemption (LPE) for a Registered Architect is available in lieu of a roof plan and product information.

Select one of the following:

- ☒ Streamlined Path: LPE (RA).
- ☐ Full Documentation Path.

Upload SSc1-5. Provide the roof plan. (Optional)

Upload SSc1-6. Provide product information in the form of manufacturer cutsheets. (Optional)

Table. Combination High SRI Materials and Vegetated Roof

| Material Description / ID | Square Footage (sf) | Reflectance (0-1) | Emittance (0-1) | SRI value (actual or calculated) | | Roof Slope | Weighted SRI Compliant Roof Area (sf) |
|---------------------------|---------------------|-------------------|-----------------|----------------------------------|--|------------|---------------------------------------|
| | | | | | | | |

| | |
|---|--|
| Total weighted SRI compliant roof area (sf) | |
| Total vegetated roof area (sf) | |
| Total roof area (sf) (excluding mechanical equipment, photovoltaic panels, and skylights) | |
| Total weighted roof area in compliance (sf) (must be greater than or equal to total roof area) | |
| Percent of roof covered by vegetation (%) | |

Path 5. Heat Island Effect- Roof Points Documented:

PATH 6. LIGHT POLLUTION REDUCTION

Select one of the following:

- ☐ **Option 1. Reduced Input Power.** For all nonemergency interior luminaires with a direct line of sight to any openings in the building envelope, input power is reduced by at least 50% between 11pm and 5am via automatic device(s).
- ☐ **Option 2. Shielding.** All openings in the building envelope with direct line of sight to any nonemergency interior luminaires are shielded between 11pm and 5am, for a resultant transmittance of less than 10%.
- ☐ No non-emergency interior lighting has a direct line of sight to openings in the building envelope.

A Licensed Professional Exemption (LPE) is available for Licensed Engineers in lieu of drawings showing automatic controls and drawings or specs with sequence of operation for lighting.

Select one of the following:

- ☒ Streamlined Path: LPE (PE)
- ☐ Full Documentation.

A Licensed Professional Exemption (LPE) is available for Licensed Engineers in lieu of the following:

- 1) Drawings of shading device drawings.
- 2) Sequence of operation for the shades.
- 3) Specs showing resultant transmittance of the shading is less than 10%.

Select one of the following:

- ☒ Streamlined Path: LPE (PE).
- ☐ Full Documentation.

Upload SSc1-9. Provide drawings illustrating the location of automatic shading devices.

Upload SSc1-10. Provide documentation detailing the sequence of operation for automatic shading devices.

Upload SSc1-11. Provide documentation (such as manufacturer product specifications) confirming that the resultant transmittance of shading devices is less than 10%.

Path 6. Light Pollution Reduction Points Documented:

PATH 7. WATER EFFICIENT LANDSCAPING - REDUCED BY 50%

A site plan showing the landscaped areas of the project building and associated grounds is required to document compliance for Path 7.

Upload L-2. Provide the site plan for the project.

Select one of the following:

- ☐ The site plan above shows landscaped areas of the project building and associated grounds.
- ☐ A different document is better suited to satisfy this requirement.

Upload SSc1-13. Provide a site plan for the project showing the landscaped areas.

- ☐ Project conditions do not allow for installation of vegetation on the grounds. Therefore planters, a vegetated roof, and/or a courtyard landscape have been installed to achieve credit compliance. (Optional)

Planter, vegetated roof and/or courtyard landscape area:

 sf

Total site area within the LEED project boundary:

 sf

Percentage of planter, vegetated roof, and/or courtyard landscape area:

 %

- Select one of the following:
- ☐ The landscaping and irrigation systems have been designed to reduce irrigation water consumption from a calculated baseline case.
 - ☐ The landscaping installed does not require permanent irrigation systems. Temporary irrigation systems used for plant establishment will be removed within one year of installation.

IRRIGATION WATER CONSUMPTION REDUCTION

Reference evapotranspiration rate (ET_o):

Table SS_c1-9. Irrigation Baseline Case (July)

| Landscape Type | Area (sf) | k _s | k _d | k _{mc} ¹ | K _L | ET _o | ET _L | Irrigation Type | IE | TWA (Gal) |
|----------------|-----------|---|----------------|------------------------------|----------------|-----------------|-----------------|-----------------|----|-----------|
| | | | | | | | | | | |
| Total area | | Baseline Total Potable Water Applied (TPWA) (gal) | | | | | | | | |

Table SS_c1-10. Irrigation Design Case (July)

| Landscape Type | Area (sf) | k _s | k _d | k _{mc} ¹ | K _L | ET _o | ET _L | Irrigation Type | IE | CE | TWA (Gal) |
|----------------|-----------|---|----------------|------------------------------|----------------|-----------------|-----------------|-----------------|----|----|-----------|
| | | | | | | | | | | | |
| Total area | | Design total water applied (TWA) (gal) | | | | | | | | | |
| | | Nonpotable water used (gal) | | | | | | | | | |
| | | Design total potable water applied (TPWA) (gal) | | | | | | | | | |

1. For each landscape type, the microclimate factor (k_{mc}) must be the same for the baseline and design case.

Percentage reduction of potable water: %

Percentage reduction of total water: %

A 50% reduction in potable water use is required for 2 points in Path 7. A 100% reduction in potable water and a 50% reduction in total water is required for 2 additional points in path 8.

NO PERMANENT IRRIGATION

The landscaping installed for the project building and associated grounds does not require permanent irrigation systems. Temporary irrigation systems used for plant establishment will be removed within one year of installation.

SIGNATORY

Initial Here :

Describe how the landscape has been designed for no irrigation.

Path 7. Water Efficient Landscaping - Reduce by 50% Points Documented:

PATH 8. WATER EFFICIENT LANDSCAPING - NO POTABLE USE OR NO IRRIGATION

Compliance for Path 8 is based on information provided in documentation for Path 7.

Percentage reduction of potable water:

%

Percentage reduction of total water:

%

A 100% reduction in potable water and a 50% reduction in total water is required for 2 points in Path 8.

LANDSCAPING DOES NOT REQUIRE PERMANENT IRRIGATION SYSTEM

The landscaping installed for the project building and associated grounds does not require permanent irrigation systems. Temporary irrigation systems used for plant establishment will be removed within one year of installation.

SIGNATORY

Initial Here :

Describe how the landscape has been designed for no irrigation.

Path 8. Water Efficient Landscaping - No Potable Use or No Irrigation
Points Documented:

PATH 9. INNOVATIVE WASTEWATER TECHNOLOGIES

Table SSc1-16. Flush Fixture Summary

| | |
|---|--|
| Total calculated flush fixture water use annual volume, baseline case (kGal) | |
| Total calculated flush fixture water use annual volume, performance case (kGal) | |
| Percent reduction of water use in flush fixtures (%) | |

Select one of the following:

- ☐ **Option 1.** In the project building, potable water use for building sewage conveyance is reduced by at least 50% through the use of high-efficiency flush fixtures (water closets, urinals) and/or non-potable water (captured rainwater, recycled greywater, and on-site or municipally treated wastewater).
- ☐ **Option 2.** In the project building, at least 50% of wastewater is treated on-site to tertiary standards. Treated water is infiltrated or used on-site.

OPTION 1

- ☐ The project building uses non-potable water for sewage conveyance, in addition to or in lieu of using high-efficiency flush fixtures, in the following annual quantities. (Optional)

Captured rainwater: kGal

Recycled greywater: kGal

On-site treated wastewater: kGal

Municipally treated wastewater: kGal

Other: kGal

Upload SSc1-17. Provide plumbing drawings and calculations that illustrate nonpotable water systems supporting the quantities entered.

Table SSc1-17. Potable Water Reduction Summary

| | |
|---|--|
| Annual volume of nonpotable water used for sewage conveyance (kGal) | |
| Percent reduction of potable water use for sewage conveyance (%) | |

A 50% reduction of potable water use for sewage conveyance is required to document compliance.

OPTION 2

Table SSc1-18. Wastewater Treatment

| Wastewater Source | Annual Quantity Treated On-Site (kGal) | Annual Quantity Infiltrated On-Site (kGal) | Annual Quantity Reused On-Site (kGal) |
|-------------------|--|--|---------------------------------------|
| | | | |
| Totals: | | | |

| | |
|--|--|
| Total calculated flush fixture water use annual volume, performance case (kGal) | |
| Total annual volume of wastewater treated on-site (infiltrated and/or reused) (kGal) | |
| Percentage of wastewater treated on-site (infiltrated and/or reused) (%) | |

Percentage of wastewater treated must be at least 50% to document compliance.

Upload SSc1-18. Provide plumbing drawings and diagrams that contain detailed information regarding the on-site water treatment, infiltration and reuse capabilities at the project building.

Path 9. Innovative Wastewater Technologies Points Documented:

PATH 10. WATER USE REDUCTION - 30% REDUCTION

Table SSc1-19. Flush & Flow Fixtures Summary Statistics

| | |
|---|--|
| Total calculated fixture water use annual volume, baseline case (kGal) | |
| Total calculated fixture water use annual volume, performance case (kGal) | |
| Percent reduction of water use in all fixtures (%) | |

The percent reduction of water use must be at least 30% to document 1 point, and at least 40% to document an exemplary performance point.

Path 10. Water Use Reduction - 30% Reduction Points Documented:

PATH 11. ON-SITE RENEWABLE ENERGY

Table SSc1-20. Renewable Energy Source Summary

| Renewable Energy Source | Renewable Energy Source Allocation | Renewable Systems Owner | Energy Type | Rated Capacity | Annual Energy Generated | Units | Annual Energy Cost (\$) |
|---|------------------------------------|-------------------------|-------------|----------------|-------------------------|-------|-------------------------|
| | | | | | | | |
| Total annual renewable energy generated (kWh) | | | | | | | |
| Total annual renewable energy cost (\$) | | | | | | | |

Table SSc1-21. MEI and Renewable Energy Cost

For mixed use buildings, choose the predominant building type that suits the project OR use a non-default MEI and explain the sources for the non-default MEI value.

| Building Type | Default MEI | Electricity (kWh/sf/yr) | Non-Electrical Fuel (Btu/sf/yr) |
|---------------|-------------|-------------------------|---------------------------------|
|---------------|-------------|-------------------------|---------------------------------|

| | | | |
|---|--------------------------|--|--|
| | <input type="checkbox"/> | | |
| Gross square footage of the project building (sf) | | | |
| Annual energy use (kWh/yr, Btu/yr) | | | |
| Average energy rate (\$/kWh, \$/Btu) | | | |
| Annual energy cost (\$/yr) | | | |
| Total annual energy cost (\$/yr) | | | |
| Percent renewable energy (by cost) | | | |

Must be at least 2.5% to achieve 1 point, 5% to achieve 2 points, and 10% or greater to achieve exemplary performance.

| | |
|--|--|
| Path 11. On-site Renewable Energy Points Documented: | |
|--|--|

PATH 12. OTHER QUANTIFIABLE ENVIRONMENTAL PERFORMANCE

Select one of the following:

- ☐ **Other Quantifiable Environmental Performance.** The building in which the project is located claims other quantifiable environmental benefits not covered within the SS Credit 1 paths.
- ☐ **Exemplary Performance.** The building in which the project is located complies with the exemplary performance requirements of one of the SS Credit 1 paths.

Upload SSc1-19. Provide a narrative, calculations or other evidence of quantifiable environmental benefits.

The building in which the project is located has achieved exemplary performance for the following:

- ☐ Path 4. Heat Island Effect - Nonroof
- ☐ Path 5. Heat Island Effect - Roof
- ☐ Path 10. Water Use Reduction
- ☐ Path 11. On-site Renewable Energy

| | |
|--|--|
| Percentage of mitigated site hardscape (must be at least 30%): | |
|--|--|

| | |
|--|--|
| Percentage of parking spaces under cover (must be at least 50%): | |
|--|--|

| | |
|--|--|
| Percentage of mitigated site hardscape: open-grid pavement (must be at least 30%): | |
|--|--|

| | |
|---|--|
| Path 4. Heat Island Effect - NonRoof Exemplary Performance Points Documented: | |
|---|--|

| | |
|--|--|
| Path 4. Heat Island Effect - Nonroof Exemplary Performance Documented: | |
|--|--|

| | |
|---|--|
| Percentage of roof area that is vegetated (must be 100%): | |
|---|--|

Path 5. Heat Island Effect - Roof Exemplary Performance Points Documented:

Path 5. Heat Island Effect - Roof Exemplary Performance Documented:

Percent reduction of water use in all fixtures (must be at least 40%):

Path 10. Water Use Reduction - Exemplary Performance Points Documented:

Path 10. Water Use Reduction - Exemplary Performance Documented:

Percent of on-site renewable energy (must be at least 10%):

Path 11. On-site Renewable Energy Exemplary Performance Points Documented:

Path 11. On-site Renewable Energy Exemplary Performance Documented:

Path 12. Other Quantifiable Environmental Performance Points Documented:

ADDITIONAL DETAILS

- ☐ Special circumstances preclude documentation of credit compliance with the submittal requirements outlined in this form.

SPECIAL CIRCUMSTANCES

Describe the circumstances limiting the project team's ability to provide the submittals required in this form. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload SSc1-SC. Provide any additional documentation that supports the claim to special circumstances. (Optional)

- ☐ The project team is using an alternative compliance approach in lieu of standard submittal paths.

ALTERNATIVE COMPLIANCE PATH

Describe the alternative compliance path used by the project team. Include justification that this path meets the credit intent and requirements. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload SSc1-ACP. Provide any additional documents that support the alternative compliance path approach. (Optional)

SUMMARY

SS Credit 1: Site Selection Points Documented: