



# LEED 2009 for Existing Buildings: Operations and Maintenance

## SS CREDIT 7.1: HEAT ISLAND REDUCTION - NONROOF

Project # 1000002893 Crawford House Office Building

All fields and uploads are required unless otherwise noted.

### THRESHOLD ATTEMPTED

Points Attempted: 1

### ALL OPTIONS

Select one of the following:

- LEED Design & Construction Streamlined Path: The project earned at least one point related to non-roof heat island reduction under LEED for New Construction, LEED for Core and Shell, or LEED for Schools.
- Operations & Maintenance Submittal Path. The project team will document compliance with the heat island reduction requirements of LEED-EB: O&M SS Credit 7.1.



### OPERATIONS & MAINTENANCE SUBMITTAL PATH

Performance period start: Apr 11, 2011

Performance period end: Dec 31, 2012

A Licensed Professional Exemption for a Civil Engineer or Registered Landscape Architect is available in lieu of a site or landscape plan identifying all parking and nonroof hardscapes.

Select one of the following:

- Licensed Professional Exemption - Civil Engineer or Registered Landscape Architect.
- Full Documentation Path.



A scaled site or landscape plan identifying all hardscape and parking areas at the project site is required to document compliance with SS Credit 7.1. The site plan below is a linked submittal. (If no document is present, or if the document does not include the required information, upload a site plan which meets the above requirements.)

- The linked site plan above meets the following criteria:
  - 1) It was accurate as of the close of the performance period.
  - 2) All non-roof hardscape areas within the LEED project boundary are highlighted.
  - 3) Each portion of hardscape complying with any strategy in this submittal option is clearly marked and labeled.
- A different document is better suited to satisfy these requirements.

Select one of the following

- Option 1. Site Hardscape.** A combination of shading, high reflectance, and/or open-grid paving is provided for at least 50% of the site hardscape.
- Option 2. Parking Under Cover.** At least 50% of parking is placed under cover.

## OPTION 1. SITE HARDSCAPE

Select one of the following:

- Reflective Materials.** The nonroof heat absorption reduction strategies at the project include materials with an SRI of at least 29.
- No Reflective Materials.** The nonroof heat absorption reduction strategies at the project do NOT include materials with an SRI of at least 29.

**Table SS7.1-2.** Heat Absorption Reduction Strategies

Complete the table below for all nonroof heat absorption reduction strategies employed at the project site.

Area shaded by current and future tree canopy, within 5 years of installation (sf)	5,000
Area shaded by structures covered with energy-producing solar panels (sf)	0
Area covered by qualifying reflective materials (sf)	0
Area covered by open-grid pavement system (at least 50% pervious) (sf)	168
Total area of qualifying nonroof hardscape surfaces (sf)	5,168
Total area of all nonroof hardscape surfaces on project site (sf)	6,421
Qualifying non-roof surfaces as a percentage of total non-roof surfaces (must be at least 50%)	80.49

Describe the maintenance program in place to ensure that SRI surfaces maintain good reflectance over time. Include information regarding the cleaning procedures and schedule.

To achieve this credit, non-roof hardscape for the project building's parking area (6,253 sq ft) is shaded with mature maple trees. The shading does not cover the entire area, but as you can see from the attachment called "Aerial View w details" taken from Google Maps, the majority of the hardscape (paved parking area is shaded). Additionally, the sidewalk from the parking area to the project building (168 sq ft) is made of open grid pavers, cobblestone.

## ADDITIONAL DETAILS

- Special circumstances preclude documentation of credit compliance with the submittal requirements outlined in this form.
- The project team is using an alternative compliance approach in lieu of standard submittal paths.

## SUMMARY

SS Credit 7.1: Heat Island Reduction - Nonroof Points Documented:

1

One exemplary performance point is available to project teams that achieve either of the following:

- 1) At least 95% of the site hardscape constructed with high-albedo materials and/or open-grid paving and /or shading within 5 years.
- 2) At least 95% of the parking spaces provided for building users located under cover.

SS Credit 7.1: Heat Island Reduction - Nonroof Exemplary Performance Documented:

N

- The project team reserves one point in the Innovation in Operations credit category for exemplary performance in SS Credit 7.1.