# The U.S. Green Building Council

hereby presents to

Advanced Coating Systems, inc Woodstock, GA

# Certificate of Membership

As a balanced, consensus coalition representing the entire building industry, we promote the design, construction, and operation of buildings that are environmentally responsible, profitable, and healthy places to live and work.



Member since 2005

S. Richard Fedrizzi, President, CEO and Founding Chairman

# **LEED®** for Existing Buildings:

Operations & Maintenance



For Public Use and Display September 2008

## SS Credit 7.2: Heat Island Reduction: Roof

## 1 point

#### Intent

To reduce heat islands (thermal gradient differences between developed and undeveloped areas) to minimize impacts on microclimates and human and wildlife habitat.

## Requirements

Choose one of the following options:

#### **OPTION A**

Use roofing materials having a solar reflectance index (SRI) equal to or greater than the values in the table below for a minimum of 75% of the roof area. If more than 75% of the roof area is covered with the SRI material, the SRI value may be lower than the required value if the resulting area-weighted equivalent SRI performance is at least as high as having the required value on 75% of the area. Implement a maintenance program that ensures all SRI surfaces are cleaned at least every two years to maintain good reflectance.

#### OPTION B

Install and maintain a vegetated roof covering at least 50% of the roof area.

#### OPTION C

Install high-albedo and vegetated roof surfaces that, in combination, meet the following criteria:

Roof type	Slope	SRI
Low-sloped roof	≤ 2:12	78
Steep-sloped roof	> 2:12	29

# **Potential Technologies & Strategies**

Consider installing high-albedo and vegetated roofs to reduce heat absorption. SRI is calculated according to ASTM E 1980. Reflectance is measured according to ASTM E 903, ASTM E 1918 or ASTM C 1549. Emittance is measured according to ASTM E 408 or ASTM C 1371. Default values are available in the LEED for Existing Buildings: Operations & Maintenance Reference Guide. Product information is available from the Cool Roof Rating Council website, at <a href="https://www.coolroofs.org">www.coolroofs.org</a>. Also, visit the ENERGY STAR website, <a href="https://www.energystar.gov">www.energystar.gov</a>, to research compliant products.