



Heat island reduction - roof

SSc7.2 | Possible 1 point

Intent

Reduce heat islands (thermal gradient differences between developed and undeveloped areas) to minimize impact on microclimate 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:

$(\text{Area of SRI Roof} / 0.75) + (\text{Area of Vegetated Roof} / 0.5) \geq \text{Total Roof Area}$
[INSERT TABLE HERE]