

The City of Suwanee is going Green and keeping it cool.

The City of Suwanee is working to become certified as a Green Community in the Atlanta Regional Commission's Green Communities Program. The program is designed to encourage local governments to become more sustainable and to reduce their environmental impacts and to promote education of green practices in the community. Certified Green Communities set an example by conserving energy, investing in renewable energy, and protecting natural resources.

One of the ways Suwanee is going green is with its new City Hall. The City Hall has a Cool Roof that uses reflective materials to reduce the amount of heat absorbed by the building and reduces the urban heat island effect by reflecting solar heat back into the atmosphere instead of absorbing it in the roof.



For more information on Cool Roofs:

www.energystar.gov
www.consumerenergycenter.org/coolroof/
www.coolroofs.org

For more information on LEED® certification:

www.usgbc.org (U.S Green Building Council)

For more information on the Green Communities Program:

www.atlantaregional.com



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Green Initiative:
Suwanee City Hall
Cool Roof

The City of Suwanee Green Initiative: Cool Roof

Did you know...

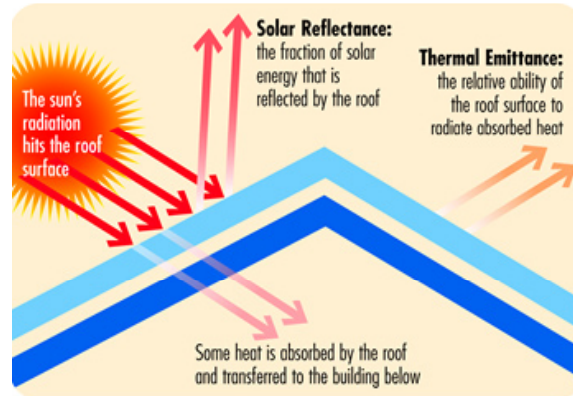
The City of Suwanee's new City Hall is on track to become the second public building in Gwinnett County to be LEED® certified. LEED®, or Leadership in Energy and Environment Design, is an independent certification system established by the U.S. Green Building Council. The program is designed to encourage and accelerate global adoption of sustainable "green" building and development practices.

One of the green design principles used in the City Hall is the cool roof, which uses reflective roofing material to reduce the amount of heat transferred into the building. The City Hall cool roof is 7,560 square feet and is a mixture of reflective metal and a 2-ply PVC fabric roof membrane. Use of the cool roof should reduce the costs of cooling the new City Hall.



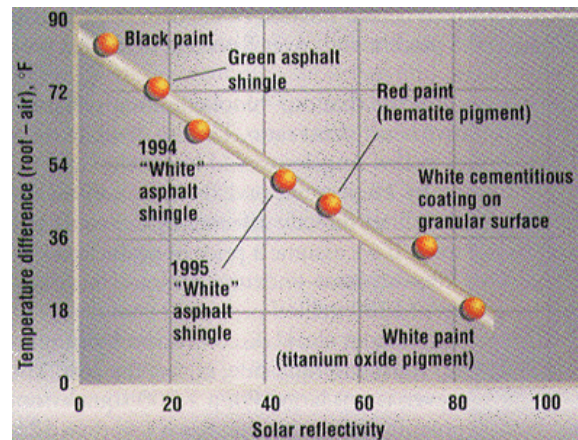
What is a Cool Roof?

A cool roof is one that reflects the sun's heat and emits absorbed radiation back into the atmosphere. Cool roofs reduce the roof surface temperature by up to 100 degrees Fahrenheit, thereby reducing the heat transferred into the building.



Source: Cool Roof Rating Council

Cool Roofs consist of materials that very effectively reflect the sun's energy. These materials are mainly bright white, although non-white colors are becoming available. Types of cool roofs vary from coated roofs to green roofs, which use natural vegetation to reduce heating and cooling loads, reduce stormwater run-off, and filter pollutants out of the air.



Source: Heat Island Group (<http://eetd.lbl.gov>)

There are two factors that define a Cool Roof:

- **High Reflectivity:** the ability of the roof coating to reflect away the sun's energy instead of absorbing it.
- **High Emissivity:** the ability of the roofing material to radiate away any energy it does absorb.

Cool Roofs benefit not only individual energy consumption and energy costs, but can contribute to reducing adverse environmental effects on a regional basis by reducing the urban heat island effect, which in turn reduces the amount of smog and air pollution produced.

What are the benefits of a Cool Roof?

- Reduces energy cost from cooling by reflecting 85-90% of the solar heat
- Reduces Urban Heat Island Effect
- Reduces air pollution and smog formation
- Reduces roof maintenance
- Uses Recycled materials
- Prolongs the life of cooling equipment
- Made of recycled, non-toxic materials.
- Reduces air temperatures around the building
- Helps to improve indoor environmental quality