

How do you build a Green Theater ?

Page down.....

Downtown's new LEED Certified Theater Complex

This November, as moviegoers relax and enjoy the show in one of the 12 state-of-the-art digital, stadium style auditoriums, they may not realize that they are in the first LEED certified green theater in the US!



Q – What is LEED and why is it important ?

- **LEED** is short for **L**eadership in **E**nergy & **E**nvironmental **D**esign. Since 1999, the LEED rating and certification guidelines have helped developers, architects and contractors improve the quality of our buildings and the impact they have on our public health and environment. Visit www.usgbc.org
- Today, our buildings account for over one-third of the carbon dioxide emissions and use one-third of our total energy, two-thirds of our electricity and one-eighth of our water resources. By building green, we can greatly reduce a building's energy use and emissions while reducing future operating costs.

Q – Why is it a smart move for Chattanooga?

- As we build on our momentum and reputation as one of America's most livable cities, we must be a leader in sustainable development and environmental stewardship. See www.greenspaceschattanooga.org
- We should make green building the standard, rather than the exception.

Q – What are some of the ways our new theater will earn the LEED designation?

- **Land reuse & Location** – The theater is being built on land that was an auto dealership back in the 50s. We are reusing the land instead of using an unspoiled greenfield site. In addition, the theater is located in a central urban location on the free CARTA Electric Shuttle route.



- **Water** – Rainwater will be captured on the roof, stored in a water tower and will be used to flush the toilets. Using the rainwater along with high efficiency fixtures will result in a 66% water savings or an estimated 200,000 gallons per year.

- **Locally sourced materials** – Many of the construction materials are made from raw material found within a 500-mile radius of Chattanooga greatly reducing the energy used in transportation.

- **Construction materials** – The bricks are made nearby and are fired with methane gas sourced from a landfill instead of using fossil fuels. Many of the products used in the construction are manufactured using recycled materials. For example, the 43,000 concrete blocks in the exterior walls are made of 60% recycled content and all of the steel structure is all recycled material.



More.....

More ways our theater is green....



- **Construction waste reduction** – Over 1.7 million pounds of asphalt were removed at the site and was ground up for use on new roads. Between 50% and 75% of the construction waste material is being recycled instead of going to the landfill.

- **Energy use** – The theater’s design features double paned glass and the white roof and sidewalk will reflect the sun’s heat 20% better than other materials. High efficiency HVAC units use no CFCs as refrigerants. LED and fluorescent lighting with motion sensors will reduce lighting costs 75% over conventional methods. All of these features combine to reduce the overall energy use by 35% saving \$15,000 per year in energy costs.



- **Indoor environment** – Paint, carpet and other finishing materials used in the theater’s interior are carefully selected for low emissions of volatile organic compounds (VOCs) and other gasses. Even the entire construction site is a designated no-smoking area.

- **Future building uses** – The building is designed with adaptive reuse in mind.

[< Back to the RiverCity Home Page](#)