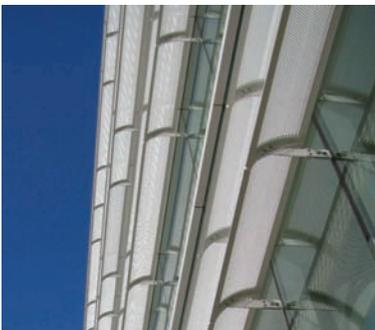
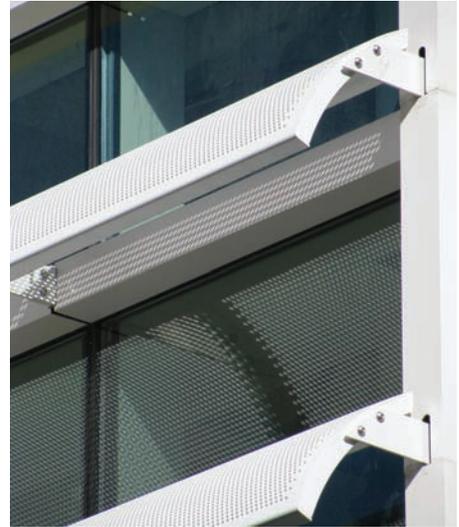


# Green Square Raleigh NC



**Project;**  
**DENR Green Square project in Raleigh, North Carolina.**

**Product: Hendrick Architectural Products  
custom sunshades and brackets  
Material: .190" aluminum**

**Application:**  
**Custom Sunshades**

**Architect:**  
**Obrien Atkins, Durham, North Carolina**

**Installer:**  
**Juba Aluminum Products Inc.,Concord, North Carolina**

**LEED : Gold**



**Hendrick Architectural Products**

Cutting Edge Metal Solutions

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## Project:

\*The Green Square Complex includes an office building that will house several agencies in the N.C. Department of Environment and Natural Resources, as well as a Nature Research Center aimed at providing children and adults with experiential learning opportunities focused on scientific research. The complex will serve as a model of environmental and cost-efficiency, as officials have designed the complex to be state government's first Leadership in Energy and Environmental Design, or LEED, certified building in downtown Raleigh.

The 98 million dollar public-private partnership project Green Square, signed into legislation by Gov. Easley in August of 2005. Green Square will run the length of 2 blocks along Jones St. and will be erected between Dawson St. and Salisbury St. Glassed-in pedestrian skyways will connect the buildings over McDowell and Salisbury. The Green Square complex will be composed of a 4-story, 95,000 square foot Nature Research Center that serves as an extension of the Museum of Natural Sciences, a 170,000 square foot building housing offices for roughly 615 employees of the state Department of Environment and Natural Resources, a 60,000 square foot State Employees Credit Union financial services center, and a parking deck providing 700 spaces. The museum expansion will also be funded in part by a private capital campaign spearheaded by the Friends of the Museum and will also see support from Wake Co. and the city of Raleigh, who have pledged 6 million dollars in meal and hotel taxes.

The complex, which will occupy two square blocks along Jones Street. The complex will house the office of the department's secretary and its administrative offices as well as the offices of Environmental Education and Natural Resource Planning and Conservation, the Customer Service Center, Information Technology Services, and the divisions of Air Quality, Parks and Recreation, Pollution Prevention and Environmental Assistance and Waste Management.

The office building will be attached by a walking bridge to the Nature Research Center, a wing of the current N.C. Museum of Natural Sciences. The Nature Research Center will feature live presentations, interactive exhibits and hands-on laboratories. Construction on the Nature Research Center is set to begin next year.

Among its "green" features, the majority of the complex will have light-emitting diode, or LED, lighting fixtures with occupancy sensors and daylight dimmers so the building will rely upon natural lighting and use far less electricity. Sunshades will be used on the office building. Also, Green Square will be constructed with cisterns and stormwater detention pipes so rain water can be reused to flush toilets and irrigate plants. Native and adaptive plants will be grown on the roofs and will cool the buildings and the surrounding environment.

Since fall 2007, architectural designs have been completed and three buildings have been demolished to make way for the complex. Almost all of the materials from the demolition will be reused or recycled in the Green Square Complex or other places. Also, construction has nearly been completed on an underground parking deck.

\* from the NCDENR website <http://portal.ncdenr.org/web/greensquare>

## Challenges:

Hendrick Architectural Products was approached by Juba Aluminum Products with the design to match the design of a british sunshade company that used cast aluminum outriggers.

Hendrick offered a tubular aluminum bracket. The Hendrick bracket would need to mount to a standard bracket provided by the curtain wall manufacturer.

Hendrick supplied 490-painted sunshades & assembled brackets

The custom shade design consisted of 3/8" on 1/2" perforated metal hole pattern on .190" aluminum, rolled and bent with a kynar finish.

## Solutions:

The brackets were welded on the end, to keep the rolled radius consistent between abutting shades.