Gateway Village, Charlotte, NC

**LOCATION**
Gateway Village  
Third Ward  
Charlotte, NC

**PROJECT SPECIFICATIONS**
15 Acre Mixed-Use, $450 Million Project.  
65,000 sf Retail  
583 Residential Units

**DEVELOPER**
Bank of America  
Cousins Properties

**CIVIL ENGINEERS**
ColeJenest & Stone

**LANDSCAPE ARCHITECTS**
ColeJenest & Stone

**LIGHTWEIGHT PRODUCER**
Carolina STALITE Company

**LIGHTWEIGHT PRODUCT**
*PermaTill*, expanded slate by STALITE

**WATERPROOFING**
American Hydrotech

**LANDSCAPING & IRRIGATION**
Southern Tree and Landscaping

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**GATEWAY GARDENS IS CENTERPIECE OF GATEWAY VILLAGE**

Gateway Village is a mixed-use development by Bank of America and Cousins Properties. It is located in Third Ward neighborhood of downtown Charlotte, NC. ColeJenest & Stone provided landscape architecture and civil engineering for development which offers office, retail, single and multi-family residential space and a centerpiece garden connecting the two main office buildings.

**GATEWAY GARDENS COVER PARKING STRUCTURE**

Gateway Gardens is a 1.5 acre park featuring a water garden containing fountains, a terrace with a cafe, and a central green area for outdoor concerts and events. The garden is located over a portion of the underground parking which serves both adjacent buildings. The portion over the parking deck needed special design considerations because it had to be waterproofed and the weight of all components had to be calculated and addressed.

American Hydrotech provided waterproofing. Carolina STALITE Company provided 2000 tons of lightweight fill and lightweight soil mixture featuring the expanded slate lightweight soil amendment, PermaTill. The mixture specified had to be designed and prepared not to exceed the weight limitations for dead and live loading of the underground structure, while still providing good in-place compaction and drainage. The soil mixture also needed to securely anchor the plant material and provide for sustained plant growth.
TELESCOPING CONVEYOR USED TO PLACE SOIL MATERIAL

The planters were filled using an ingenious piece of equipment called a Putzmeister Telebelt provided by Carolina Concrete Pumping. The Putzmeister is a telescoping conveyor system used to place material within a 60 foot radius. Southern Tree and Landscaping, a TruGreen Company, was the landscape contractor, and was responsible for soil placement, irrigation and planting.

A BRIGHT FUTURE FOR ROOFTOP GARDENS

Lightweight soil fills, especially in combination with structural lightweight concrete, is making rooftop gardens an attractive architectural alternative for designers around the world. In Europe, companies have developed and are marketing modular roof garden systems that employ Leca and crushed brick at a growing medium. In the U.S., Carolina STALITE has teamed up with American Hydrotech to provide lightweight soil mixtures containing PermaTill expanded slate. Carolina STALITE and American Hydrotech can provide the expertise, design criteria, products and installation of the latest roof garden and waterproofing technology.

For Additional Information About Lightweight Fills and Soil Mixtures
www.permatill.com / www.stalite.com

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