

AXIAL Rapid Commerce | LEED v4 Green Education

AXIAL Rapid Commerce by Crescent Communities is a 449,000-square-foot industrial building located at 500 Rhyne Road, just half a mile from I-485 and 2.5 miles from I-85. The speculative site will include 3,850 square feet of office space in the warehouse ready for immediate occupancy, as well as 338 auto parking spaces, 106 trailer parking spaces, and two drive-in doors. Together with its prime location, these features will satisfy a wide variety of local, regional, and national users.

Sustainable design features:

- Location & Transportation
- Sustainable Site
- Water Efficiency
- Energy & Atmosphere
- Materials & Resources
- Indoor Environmental Quality

Transportation Resources:

The facility is located within 1 mile of I-485 for easy access for users doing interstate travel, and within 6 miles of Charlotte Douglas International Airport for air freight.

Heat Island Reduction:

Roof materials were chosen for their solar reflective properties, resulting in less heat absorbed by the site, lower building cooling/energy needs, and a more comfortable environment for building users.

AXIAL Rapid Commerce used Type 1L concrete and **reduced the embodied carbon by 14.65%****



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Fundamental Commissioning and Verification:

Implemented an enhanced commissioning process in order to increase energy efficiency and effectiveness within the warehouse.*

Building Life-Cycle Impact Reduction:

A Life-cycle assessment was performed to determine the estimated carbon impact based on design, in comparison to a baseline model. The results helped guide design and construction decisions with the goal to reduce the building's embodied carbon.

Outdoor Water Use:

The landscape around the warehouse was carefully selected to withstand all seasons and does not require permanent irrigation to preserve precious water resources.

Storage and Collection of Recyclables:

Adequate storage bins are within the facility's office space that accommodate the collection of paper, cardboard, glass, plastic, and metal.

Construction Indoor Air Quality Management Plan:

During construction, great efforts were made to ensure air quality would be of highest quality upon opening. Dirt and dust were minimized, ductwork was sealed prior to operation, products used had low VOC content, and construction tasks were scheduled maintain a clean indoor environment.

*This means that an unbiased, third-party expert reviewed the building plans and inspected its systems to ensure that everything is designed and functioning as intended.

**Compared to the baseline of a similar building.