

LEED® CERTIFIED GREEN BUILDING PROJECT PROFILE

CARE ALLIANCE HEALTH CENTER CENTRAL NEIGHBORHOOD CLINIC CLEVELAND, OHIO



Achievements of Project Design & Construction:

- 1. The Central Neighborhood Clinic will be 18% more energy efficient than a standard building.** This is important, as buildings contribute to 30-40% of total global energy consumption.
- 2. Water usage will be reduced by 30%, compared to a building with standard faucet fixtures.** On average, up to 10 gallons per day of your water footprint is lost to leaky faucets.
- 3. Thanks to our white roof, the sun's rays will be reflected and the Heat Island Effect will be mitigated.** This will result in lower heat absorption, decreased energy use, and lower greenhouse gas emission.
- 4. Over 92% of the Central Neighborhood Clinic's construction waste was diverted from our landfills.** Building construction and demolition waste accounts for 25-40% of the US' total landfill waste, while only about 20% of this waste is actually recycled.
- 5. We reserved parking spaces for low-emitting and fuel efficient vehicle use only.** There are 800 million car parking spaces in the U.S., totaling 160 billion square feet of concrete and asphalt. The environmental impact of all car parking spaces adds 10% to the carbon dioxide emissions of the average automobile.
- 6. The materials used to build the Central Neighborhood Clinic contain 29% recycled content.**



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PROJECT BACKGROUND

Care Alliance Health Center collaborated with URS on the design of the new Central Neighborhood Clinic (CNC), located in Cleveland's Central neighborhood. The 30,000 square foot comprehensive health facility offers high quality medical, dental, and behavioral health care and supportive services for community residents, regardless of their ability to pay.

The Central Neighborhood Clinic is energy efficient, takes advantage of daylight, reduces storm water run-off, has native and drought resistant landscaping, is frugal with water resources, and provides a healthy indoor environment to enhance the health care experience.

STRATEGIES AND RESULTS

The U.S. Green Building Council (USGBC) implemented the LEED program to encourage owners and professionals to design, build, and operate more environmentally appropriate buildings. The list below details design elements of the Central Neighborhood Clinic and indicates the number of points pursued out of the total credits possible within each of LEED's seven available categories.

Sustainable Site Features

- Constructed in close proximity to public transit and other existing urban infrastructure
- Water retention basin allow all storm water to be managed on-site
- White roof reduces heat absorption and mitigates the urban Heat Island Effect, which increases urban energy use and greenhouse gas emissions
- Constructed to rehabilitate a previously developed site to reduce pressure on undeveloped land

Water Efficiency

- High-efficiency plumbing fixtures reduce water consumption by 30%
- Eliminated the need for landscape irrigation by utilizing native plants

Energy and Atmosphere

- 18% more energy efficient than a standard building

Materials and Resources

- 29% of materials from recycled sources and 10% made using regional content reduced transportation-related emissions and kept money in the local economy
- Over 92% of construction waste diverted from landfills

Indoor Environmental Quality

- HVAC system kept clean during construction, and permeable materials were protected from moisture exposure, limiting exposure to harmful irritants
- Outdoor air monitored for quality
- Extensive use of low-volatile organic compound (VOC) emitting building materials

Innovation in Design, or Exemplary Performance

- Points achieved for online and in-person environmental education, procuring green building cleaning practices, and from members of the project team being LEED Accredited Professionals

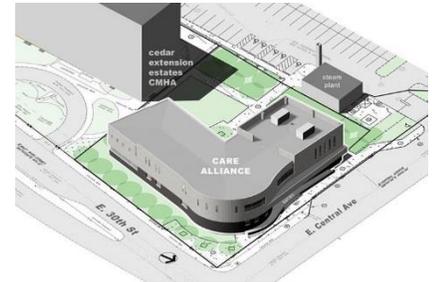
Regional Priority

- The CNC will achieve regional priority credits that account for localized issues that may not be found in other regions of the United States.

Care Alliance Health Center recognizes that its commitment to the health of its community includes a sense of responsibility to the environment. Care Alliance will lead by example by investigating, developing, and promoting sustainable policies and practices with the goal of achieving sustainability throughout our organization and our community. Care Alliance also aspires to instill in our staff, volunteers, and patients a sense of stewardship towards the environment by giving them the information and support to continue sustainability efforts beyond the health center environment.

Sustainability at Care Alliance means achieving our mission with a sense of responsibility for preserving the future of our community – from the health of our patients to the wellbeing of the environment in which we all live.

Care Alliance Health Center is committed to building and operating healthy environments for work and learning. Care Alliance adopted the USGBC LEED system to ensure that all future construction supports a healthy environment.



Building Owner

Care Alliance Health Center

Construction Manager

Panzica Construction Company

Architect

URS

Owners Representative

Gilbane Building Company

Building Area

30,000 Square Feet

Site Area

1.7 acres

Construction Completion

December 2014



ABOUT LEED

The LEED® Green Building Rating System™ is the national benchmark for the design, construction and operations of high-performance green buildings. Visit the U.S. Green Building Council's web site at www.usgbc.org to learn more about LEED and green building.

