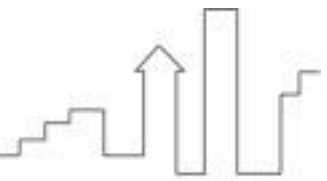


First Passive House Certified Library in North America



Giving New Life to a Neighborhood Library with High Aspirations

Carnegie Library of Pittsburgh, Carrick Branch
Pittsburgh, PA



Credit: NK Architecture

To increase resident use of the library, the building needed to be more inviting, provide more natural light, and reduce exterior noise from cars, buses, and emergency vehicles. The leaders of the library also wanted to provide more connectivity to the community.

Owner's Project Goals

Renovation and expansion of the Carrick Library was required to compel residents to use the library. Prior to renovation, the library was small, dark, and damp. Residents in the area had strong feelings that the building needed to accommodate meetings and increased youth services and activities.

Metrics

- Energy Use Intensity of 14 kBtu/SF/year
- Energy cost reduction of 85% per year
- Building envelope air leakage = 0.59 ACH₅₀

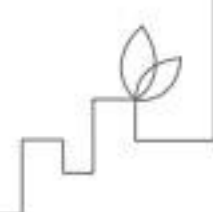
Sustainability Program Goals

Passive House certification

Project Highlights

AUROS Group provided Passive House commissioning services and trades person training to ensure key elements of Passive House building science were executed properly. This attention to detail gives projects the greatest change of success in reaching performance expectations in operations. AUROS Group provided building envelope inspection and on-site support throughout the project. The demonstrated benefits of Passive House included:

- Lower energy costs and consumption
- Draft-free building
- Continuous fresh air
- Solar heat capture
- Noise abatement



Project Reference

Laura Nettleton
Thoughtful Balance
laura@thoughtfulbalance.com



243 East Main Street
Carnegie, PA 15106
beth.eckenrode@aurosgroup.com
www.aurosgroup.com

Renovation

Renovation and Expansion of local library
8,000 square feet
\$4.0 million

Project Team

AUROS Group
Thoughtful Balance/ NK Architecture
Staengel Engineering
Massaro Corporation