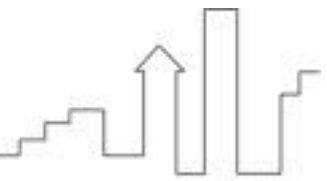


First RESET Air Certified Sportsplex in the World



Destination Youth Sports Complex Takes Care of Business

Highlands Sports Complex Triadelphia, WV

Even before COVID-19, Ohio County leadership knew indoor air quality was important. So, they set their sights on RESET Air certification, the most aggressive indoor air quality standard in the world. Little did they know how important that goal would become as a global pandemic hit about the time they were scheduled to open. Today, not only is the Sports Complex RESET Air certified, but guests may look at the screens around the building to see the real-time performance data.



Credit: Mills Group

Owner's Project Goals

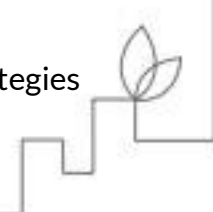
Building leadership aspired to create a destination sports complex that would increase tourism to the region without burdening taxpayers with high operating costs. With youth sports being the primary use case, the owners targeted and achieved RESET Air certification to verify the building's healthy indoor air quality.

Metrics

- Energy Use Intensity of < 30 kBtu/sf/year
- Airtightness <= 1.0 ACH₅₀
- Particulate Matter 2.5 (PM 2.5): < 12 µg/m³
- Particulate Matter 10 (PM 10): < 50 µg/m³
- Carbon Dioxide (CO₂): < 600 ppm

Sustainability Program Goals

- Passive House building science strategies
- RESET Air Certification
- WELL Building Certification



Project Highlights

As Owner's Performance Advocates, ARUSO Group used Owner's Project Requirements (OPR) to align team members to performance metrics expected during operations. Using whole building performance simulations, smart building infrastructure, and an integrated performance dashboard, Highlands Sports Complex utilized technology to increase their confidence in the building's likelihood of achieving long-term operating cost targets prior to spending one construction dollar.

The sports complex's digital twin provided insights into the envelope performance and control system design that allowed the project team to improve building performance while decreasing costs.

Project Reference

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New Construction

183,000 square feet
\$35 million

Project Team

AUROS Group
Mills Group/Moody Nolan
H.F. Lenz
Building Performance Architecture