



High Precision Optics

Project Goal:

This client approached us with a certain specific goals. They needed an ISO 7 environmentally controlled, modular room out of a pre-existing room, while having an ISO 5 classification at the tool.





SBB Scope:

- · Room Design, installation of all cleanroom components
- Complete Gorilla Grid System
- 7 Process Air Handler kits (AHU, return, HEPA filter, controls)
- Gown room (including walls and doors)
- Utilized but converted outside doors and existing walls (epoxy paint, door sweeps, door gaskets)

Collaboration with Key Trades:

- 10 ton staged cooling units provided outside air from Sullivan Mechanical
- Electrical, sprinkler system, process lines, process tool coordination done by General Contractor.

Special Focus:

- Designed, engineered, manufactured and installed in 8 weeks.
- The room had to be 100% modular including components. The room was used temporarily.
- Modular construction allows a faster depreciation cycle on the investment.
- LED Lighting





Final Result:

- Finished on time, on budget, with no change orders.
- The room tested and **outperformed** design specifications. Officially ISO 6 (ISO 5.5 unofficially)



Glass Industry (Syracuse Glass)

Project Goal:

Syracuse Glass was in the need of a controlled environment for their glass lamination division. The project consisted of converting a warehouse space into an ISO 7 room with very tight humidity control inside an uncontrolled environment for a new glass lamination machine.





SBB Scope:

- The "Full Kit" (Complete architectual package, installation, start up and qualification)
- Self sustaining steel structure
- · Gorilla Grid Ceiling System with walkable ceiling
- Walls, windows, doors, soft wall gown room
- Complete HVAC system (Desiccant Humidification System) with an 8000 CFM AHU
- HEPA filtration with integrated returns
- Controls

Collaboration with Key Trades:

- Electrical and flooring provided by Syracuse Glass
- Outside service provided for the process tool integration

Special Focus:

- Single Point Responsibility
- · Designed to accomodate a crane
- Fully modular kit
- Custom integrated sluich gates to match the process tool
- Walls and ceiling with an R value to maintain humidity without condensation





Technical Specifications:

- 68°F with 22% RH
- LED Lights- 100ft candles at 3ft

Final Result:

- · Finished on time, on budget, with no change orders.
- Outperformed design parameters.