

New Science & Technology Center



Chestnut Hill Academy

David Klug - Mechanical

Philadelphia, PA

Project Information

Size: 26, 870 SF
Cost: \$9.6 Million
Construction: Nov 07 to Nov 08
Delivery Method: CM at Risk

Project Team

Associate Architect : Krieger & Associates
Architect of Record: Lilley Dadagian Architects
Contractor: Turner Construction
Lab Designers: Jacob Consultancy
“Green” Design Consultant: M2 Architecture
Engineers
-Structural: Room & Guarrancino
-Mechanical / Electrical /Plumbing: Bruce E. Brooks & Associates
-Civil &Landscape: Cairone & Kaupp

Architecture

Design

-Stone/stucco façade
-Glass enclosed lobby
-Asphalt shingle roof over building
-Galvalum roofing over lobby

Function

-Classrooms and physics / biology / chemistry labs for K-12 students

MEP

Chiller

-air cooled scroll
-57.1 ton

AHU

-6300 cfm for classrooms
-8000 cfm for labs
-VAV with heat recovery wheel

Specialties

-grey water system, porous pavement in parking lot and sidewalks

Lighting/Electrical

MDP

-480/277 V, 3 ϕ , 4w

Feeder

-480v from nearby Inn Building

Emergency Switchboard

-480/277v

Lighting

-Labs & Classroom:

Pendant direct/indirect

-Lobby:

Fluorescent downlights

-Corridors:

Recessed direct/indirect

Specialties

-photovoltaic cells, wind turbine, daylight harvesting

Structural

Floors

-metal deck/concrete
-slab on grade

Frame

-steel braced

Exterior Walls

-metal studs, ext. sheathing, air/vapor barrier, rigid insulation, stone and stucco veneer