

Educating Engineering Students with PVC

Western Colorado University received funding to build a new engineering building in which the mechanical room was designed to serve as a tutorial for the university's engineering students.

CHALLENGE:

Western Colorado University recently received funding to build a new engineering building. The building was designed to be a LEED Gold certified building that serves as a live tutorial for the engineering students who would be using the facility daily. As a result, instead of a mechanical system with the typical 5 to 7 pipes, this system was made with 16 pipes. The objective was to show budding engineers all the components that could be encountered in various mechanical systems. The purpose of the mechanical room as a tutorial and the sheer variation in the pipe systems that were part of the design created the need for clear differentiation between the pipes so they could be used for educational purposes.

SOLUTION:

To achieve the necessary differentiation among the pipes, this project used all 14 colors of JM's Zeston® 2000 PVC jacketing. Every supply and return had a unique color. This created an incredible visual aesthetic for the room while making it easy for students to delineate between different pipe systems. The mechanical room houses over 15,000 feet of insulated pipes that have been jacketed with various colors of Zeston PVC, ranging from blue to yellow. In an effort to further enhance the educational components of the room, designers used JM's Trymer® PIR insulation on the chilled systems and JM's Micro-Lok® HP fiberglass on the high-temperature systems to showcase the different use cases for each insulation.

CONTRACTOR OVERVIEW

CD Specialty Contractors is one of the leading industrial and commercial insulation and scaffolding contractors in the nation, providing mechanical insulation, scaffolding, and other services spanning numerous industries. Industrial projects include refineries, petrochemical, pipelines and terminal, power plants, mines, and renewable energy installations.

Ute Plumbing & Heating, Inc is located in Colorado Springs, CO, United States and is part of the Building Equipment Contractors Industry. Ute Plumbing and Heating worked as the mechanical contractor that installed the mechanical and plumbing piping on this project.

Learn more about CD Specialty Contractors [here](#).

PRODUCT

Zeston® 2000 PVC

LOCATION

Western Colorado University
Gunnison, Colorado

CONTRACTORS

CD Specialty Contractors
Ute Plumbing & Heating

