

Case Study

THE BLUE DUCT®

Bellevue Youth Theater, Washington

Location: Washington

Architect: Becker Architects

General Contractor: Pease Construction

Installing Contractor: Design Air

The Bellevue (Washington) Youth Theatre's new facility was designed to meet LEED certification standards for sustainability. The requirements for this green building project included energy efficiency, maximum indoor environmental quality, water conservation and waste reduction. These objectives were partially achieved by integrating a geothermal heating and cooling system along with The BlueDuct® underground preinsulated duct system.

Prior to installation of the underground duct system, workers from Design Air, the installing contractor, were trained and certified by Vishal Sookhai, field training specialist, from AQC Industries. During training, the weather was typical for the Seattle area with temperatures between 40° and 49°F (4° and 9°C) with rain.



Overhead cover allows The BlueDuct® to be installed when it's raining.



Installed below grade around the inside perimeter of the Bellevue Youth Theatre, The BlueDuct® direct-burial duct system does not require drain tile or cement trench structures.

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The BlueDuct® underground duct system was installed around the inside perimeter of the Bellevue Youth Theatre. The duct section was then pressure tested to 2 inch water column (wc), as requested by the city inspector.

Representatives from Dorse & Company and AQC invited John Mull, the superintendent from McKinstry — a full-service design, build, operate and maintain (DBOM) firm — to visit the Bellevue jobsite. Mull was interested in learning more about The BlueDuct. This visit was scheduled to include Tom Miller, The BlueDuct® representative from Dorse.

Toward the end of installation, The BlueDuct® system passed the air test with no leakage at 2 inch wc static pressure, confirming an air- and water-tight seal.



Diffuser boxes were mounted and ducted into the main trunk line after air testing was completed.



The team was so delighted with the test results that the backfilling was done after inspection the following afternoon. Because of the experience gained through this project, the mechanical contractor will use The BlueDuct again.



Even in 40 degree temperatures with 90% rain BlueDuct® installs fast and easy.