

CASE STUDY

HOTEL FRANCHISEE CHOOSES A TRIO OF HIGH PERFORMANCE CPVC PRODUCTS TO CREATE A COMPLETE PLUMBING AND FIRE SPRINKLER SYSTEM

Hilton Garden Inn® Romulus, MI

For the owner of the Hilton Garden Inn® franchise in Romulus, MI, every detail involved in the construction of the hotel had to provide premium quality for its future guests.

The Detroit Hilton Garden Inn offers some unique benefits to guests, including a quieter, more reliable plumbing system and fire sprinkler protection that is manufactured for years of worry-free performance. The selection of an all-CPVC system, including a FlowGuard Gold® and Corzan® CPVC plumbing system and a BlazeMaster® CPVC fire sprinkler system, made from CPVC manufactured by Lubrizol, Inc., creates a total plumbing and fire sprinkler solution that ensures the safety and comfort of guests.



Hilton Garden Inn franchise hotel in Romulus, Michigan

According to Webb Meyers, director of construction and renovation for Cooper Companies, Memphis, TN, their goal was to build a premium business travel destination using long-lasting, quality products and building practices.

Fast, Quality Plumbing Installation

Mark McCray, superintendent for Walton Construction Co., recommended FlowGuard Gold® CPVC for the hotel's plumbing system based on past experience and knowledge of the product's superiority compared to copper plumbing systems.

FlowGuard Gold® plumbing systems are also faster and easier to install for the professional plumber, reducing overall labor costs. CPVC plumbing systems require simple hand tools for installation, and no torches or crimping tools are needed.

Over the last 40 years, CPVC has been used in a variety of plumbing system applications in millions of hotels, condominiums, buildings, apartments and homes with great results. FlowGuard Gold® pipe and fittings meet ASTM D-2846 as referenced in the current version of every model code. CPVC plumbing systems also meet all model code approvals, including the International Plumbing Code, International Residential Code, BOCA National Plumbing Code, Standard Plumbing Code, Uniform Plumbing Code, CABO 1- and 2- Family Dwelling Code and Canadian Plumbing Code.

In certain areas of the Detroit Hilton Garden Inn, pipe greater than two inches in diameter had to be installed to meet flow and volume requirements.

Pender Mechanical selected Corzan® CPVC to complete the plumbing system. While Corzan® CPVC piping is produced up to 16 inches, only 4-inch pipe was needed for the risers and mains in this hotel. Special transition fittings are used to connect the FlowGuard Gold® 2-inch CTS (copper tube size) pipe to the Corzan® 4-inch IPS (iron pipe size) pipe.

Corzan® CPVC offers many advantages for industrial as well as commercial applications due to its ease of installation and toughness. It weighs significantly less than metal and is much easier to install and support. Joints are made with solvent cementing, flanging or threading. The increased corrosion resistance translates to extended service life and reduced maintenance.

Recognized for high quality and durability, Corzan® pipe, fittings and ductwork are manufactured through a select network of companies across North America and around the globe. Extruded pipe is available through 16 inches while extruded duct is available through 24 inches. Molded and fabricated fittings are available in a wide variety of sizes depending on specific customer requirements.



"By using Corzan® CPVC, we were able to make a smoother transition between the FlowGuard Gold® and Corzan® pipe by using only CPVC," said McCray. "Since Lubrizol makes the compound for both products, we knew that the pipes would be compatible and made from the same high quality material."

Type of Construction:
Hotel/Motel

Installation Type:
New

CORZAN®
PIPING SYSTEMS
FLOWGUARD GOLD®

CORZAN

FLOWGUARD GOLD

A Quiet Solution

Another advantage of CPVC plumbing systems is their ability to minimize the sound of running water so that guests do not have to listen to their neighbor's water running late at night or very early in the morning.

The thermoplastic properties of CPVC systems offer a quieter system because the material does not transmit sound as easily as metal pipe.

According to Pender, "Everyone knows that allowances have to be made to eliminate water hammer for copper plumbing systems. With CPVC, there's no need for air chambers or arresters."

Unlike copper piping materials, the insulation properties of CPVC plumbing systems reduce condensation and "sweaty pipes". The material helps hot water stay hotter and cold water stay colder than copper, saving the owners of commercial properties money on heating and cooling bills.

"FlowGuard Gold® pipe provides an additional insulation value, where copper gives you none."

Fire Sprinkler Installation

In selecting the fire sprinkler system for the hotel, Cooper Companies specified BlazeMaster® CPVC. "We have had experiences with steel fire sprinkler systems that had pinhole leaks," said Meyers. "We recognized that CPVC systems would not have the same problem."

Len Friedman of S.A. Comunale, headquartered in Barberton, Ohio, the fire sprinkler contractor on the project, was very comfortable using BlazeMaster® CPVC for fire sprinkler system installations.

"We have built a reputation in the fire protection industry as a leader," said Friedman. "BlazeMaster® CPVC fire sprinkler systems have helped ensure that we never miss a deadline, while providing quality and lasting performance backed by our reputation, experience and depth of resources."

BlazeMaster® CPVC pipe and fittings are easier to install than steel because it is substantially lighter. It is also more flexible, and it can be installed in places nearly impossible to install steel pipe.

BlazeMaster® CPVC systems also allows a cleaner, quieter installation because no torches or heavy equipment are needed, and it is easy to design into any type of building.

According to Friedman, S.A. Comunale's Detroit branch installed 637 sprinkler heads in the 79,000 sq. ft. hotel floor by floor using a two-man crew.



BlazeMaster® pipe & fittings

BlazeMaster® fire sprinkler systems offer long-term reliability due to their corrosion resistance, low flame spread, low smoke emission levels and a UL life expectancy of 50 years with a safety factor of 2.

BlazeMaster® CPVC pipe and fittings are listed by Underwriters Laboratories, Inc., Underwriters Laboratories of Canada, Loss Prevention Council and are Factory Mutual (FM) approved for light hazard and residential occupancies. BlazeMaster® pipe and fittings are accepted for use in all major model codes and meet National Fire Protection Association NFPA 13, 13D and 13R sprinkler standards. BlazeMaster® pipe and fittings are also certified by NSF International for use with potable water and exceed ASTM standards.

A Successful Trio

"The field support provided by Lubrizol on this job was extremely valuable. Their response was timely and they made things happen, whether it was a code issue or products we needed," said Pender.

With Lubrizol's trio of CPVC products, the Detroit Hilton Garden Inn is equipped with a long-lasting fire sprinkler system that will protect the lives of hotel guests, a quieter plumbing system that provides improved water quality, superior corrosion resistance, and an overall more efficient system.

Since Lubrizol's development of CPVC plumbing systems over 45 years ago, more than three (3) billion feet of CPVC pipe has been installed in homes, condominiums, buildings, apartments and hotels, including twelve (12) million homes. For more information on the FlowGuard Gold® plumbing system, including pipes, valves, joining cement, caulks, sealants and tools, call 1-888-234-2436, X7393, or visit www.flowguardgold.com.

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FlowGuard Gold® and Corzan® pipe & fittings

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Lubrizol Advanced Materials, Inc. / 9911 Brecksville Road, Cleveland, Ohio 44141-3201 / 1.216.447.5000 / www.flowguardgold.com

FlowGuard Gold® CPVC Marketing Department

9911 Brecksville Road
Cleveland, Ohio 44141-3201 USA
888.234.2436 ext.7393
216.447.5000
216.447.5750 FAX