

Industrial Case Study

CustomGuard® offers refreshing piping solution for Coca-Cola bottling plant expansion

IPEX partnered with Harrington Industrial Plastics on multi-million dollar food and beverage project

CustomGuard®

PROJECT:

Coca-Cola bottling plant in Apopka, Florida

PRODUCTS:

CustomGuard®
Double Containment Piping System

DISTRIBUTOR:

Harrington Industrial Plastics

PROJECT SUCCESS:

- Stainless Steel by PVC Pipe Double Containment Systems
- Customized & Fabricated Solution
- On-Site Technical Support



THE CHALLENGE

A Coca-Cola bottling plant in Apopka, Florida, needed to undergo a large-scale renovation to help expand operations.

The project involved modifications to the plant's production process, including a new drainage system that provided maximum integrity and environmental protection for below-grade service conditions.

This was a highly specialized application in the food and beverage market and required partners with top-of-the-line piping products and deep industry knowledge to get the job done.

In fact, the scope of the project was so extensive, it had to be divided into three separate phases, which required three separate contractors as well as multiple piping solutions.



IPEX
by aliaxis



The CustomGuard® includes material selection, design, and specification support and provides a number of benefits, including:



Cost-effective solutions for customized applications



Fabrication of preassembled pieces to minimize install time and field joints



A 25+ year track record developing a variety of product-specific designs



An unmatched range of support services with every system

THE SOLUTION

IPEX worked in collaboration with distributor Harrington Industrial Plastics on the expansion of the Coca-Cola bottling plant. The two companies have a long and successful history of completing a number of high-profile plumbing projects throughout Central Florida.

The application required a schedule 10 T304 stainless steel primary pipe with a schedule 40 PVC containment. The sizes ranged from 2"x 4" through to 6" x 10".

As IPEX is the only manufacturer that offers stainless steel by PVC pipe double containment systems, they were the natural choice for the project. IPEX is also the only company that offers customized fabrication capabilities, often a requirement in the food and beverage industry.

This was a complex project, as many safety requirements needed to be followed. Like many food and beverage companies, Coca-Cola has strict safety standards their production facilities have to meet, from FDA to NSF and ASME standards.

Stainless steel is required for finishing applications, such as piping nitrogen or carbon dioxide into bottles to create carbonation. Any process that

impacts the final product must go through stainless steel pipes. After extensive consultation, the decision was made to use a variation of CustomGuard®, manufactured by IPEX Guardian™.

CustomGuard® is ideal for applications where the mechanical, chemical, or thermal requirements can't be met by an off-the-shelf solutions. The IPEX team of double containment specialists will build a unique system to meet customer's exact performance specifications.

The IPEX applications team worked with Coca-Cola's plumbing engineers to provide guidance and advice on the products that are available so they could find a customized solution designed to meet the specifications of the project.

For this project, IPEX extruded the PVC, made the fittings and joints and fabricated the double containment piping system at its Guardian plant in Chesterfield, MI.

THE RESULTS

The IPEX team leveraged its experience as a full systems manufacturer in the food and beverage sector, along with a successful working relationship with Harrington Industrial Plastics, to complete the expansion of the Apoka Coca-Cola bottling plant to the highest standards.

By starting with engineering specifications and ending with successful hydro testing, this project demonstrated the successful collaboration between all stakeholders, from manufacturer and supplier to customer and end user. Together, we were able to deliver satisfaction to the contractors and owners and showcase the strength and capabilities of this partnership.

The coordinated partnership of Harrington and IPEX, two prominent Aliaxis companies, along with its Guardian line of products, was the key to the success of this multi-million dollar project for a blue chip food and beverage brand.

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