

## Background

In the 1980s, Asahi/America's Duo-Pro® double contained piping system revolutionized how customers handled dangerous substances. Duo-Pro®, a fully-engineered double containment piping system, is easy to install and provides more than 25 years of service. It has been installed with confidence in a broad range of applications ranging from chemical manufacturing to food and beverage processing. Duo-Pro® is fabricated from Advanced PE, PP, PVDF, ECTFE, and PFA starting at 1/2" carrier x 2" containment.



## Problem

A large beverage manufacturer in Puerto Rico needed to modernize their plant to increase capacity for their signature beverage. An underground drainage system was required to handle process waste and any major spills from the tank farm and filtration building, where fermentation and yeast propagation took place. A low-cost provider was chosen for the first phase of the project, which unfortunately affected both the initial contractor and the customer at a high cost. The low-cost provider supplied material that did not meet the original specifications, had many leaks in the factory welds, and had five month delivery times. Severely disappointed with the phase one outcome, the owner and contractor turned to Asahi for phase two and three project needs.

## Solution

The specifications called for double containment piping in sizes ranging from the standard 3x6 up to 24x32. The contractor and end user requested Asahi to completely pre-fabricate an entire double wall piping system in spools for a fast and easy installation in the field. Asahi was able to provide the contractor with off-site manufacturing (OSM) of over 50 complex drainage piping spools to the project's specifications and dimensions. After completion and pressure testing, the Duo-Pro® 150x45 spools were shipped to the job site, ready to be installed. This saved time and money for the customer and allowed reliable, experienced welders to handle the material.

## Asahi Advantage

- Pre-fabrication, off-site manufacturing options saves time and installation costs
- Butt or electrofusion joining methods
- Start-to-finish project assistance from specification, weld training and installation

## Ideal Applications

- Pressurized chemical transfer
- Drainage applications
- Overhead OSHA compliance
- Underground installations where EPA requirements must be met

## Other Asahi Pipe Offerings

Visit our website at [www.asahi-america.com](http://www.asahi-america.com) to view other piping systems options.

## Duo-Pro® Double Containment Piping System

### Features and Benefits

- Fabricated system made from extruded pipe and molded fittings
- Complete range of molded pressure fittings that are fabricated at the factory into double containment fittings
- Designed to provide sufficient space for the installation of leak detection cable



### Pipe Supply Range

- 1/2 x2 through 16x20, 150psi and drainage

### Materials

- Proline® PP-R, PP-H
- Super Proline® PVDF
- Ultra Proline® ECTFE
- Purflon® PFA

### Welding Methods



### Why Choose Duo-Pro®?

- Duo-Pro® is an engineered system, designed to solve all previously-encountered problems in double containment piping
- The system is offered in a range of proven, highly corrosion resistant materials, which can be selected based on the application
- Fluids can be pumped through the carrier pipe up to 150psi
- Leak detection cables can be easily installed in sizes 3x6 and higher

## Duo-Pro® Double Contained Piping System

The premier double containment piping system offered on the market today, Duo-Pro® has been successfully installed in semiconductor, pharmaceutical and chemical processing industries.

Duo-Pro® offers maximum versatility to meet the unique requirements of each individual application. Asahi/America's mix and match feature allows system designers to specify pipe material and ratings based on media and pressure changes throughout an entire system. Duo-Pro® components are shipped fully fabricated and ready for installation or can be factory pre-fabricated by trained welding professionals.



**Another  
Corrosion  
Problem  
Solved.™**