



ReUze® — a complete CPVC CTS piping system for the distribution of reclaimed water, rainwater and gray water.

Today, demand for sustainable, green, and LEED® certified buildings is higher than ever. Builders, architects and engineers are exploring all avenues to make their buildings more environmentally friendly, especially with regard to water efficiency. We all know that water supplies are finite, while future demand on that water is infinite. As populations continue to grow we cannot keep using precious treated drinking water to flush toilets, irrigate landscapes or for other water consumers like cooling tower make-up that can easily use “less than potable” water.

It's clear that installing low-flow fixtures is not enough; steps also must be taken to conserve through the collection and use of rainwater, the use of reclaimed or recycled water and the innovative reuse of gray water.

NON-POTABLE WATER APPLICATIONS

Until recently the vast majority of reclaimed non-potable water was used outside of a structure for irrigation. Only now are we beginning to truly appreciate the benefits of non-potable water applications. As a result, there is increasing demand to convey non-potable water inside the building by installing a separate distribution system. Non-potable water can be used to save building owners money, relieve stress on already over-burdened public agencies and preserve a precious resource in applications such as cooling tower make-up water, toilet and urinal flushing, process water and more. By installing the ReUze CPVC CTS piping system, an engineer can have thousands of gallons of non-potable water available for such uses.



BENEFITS OF THE REUZE® SYSTEM INCLUDE:

A PROVEN MATERIAL

The Charlotte Pipe® ReUze System is made with premium FlowGuard Gold® CPVC CTS compound, a material that outperforms copper for similar applications because it will not rust, pit, scale or corrode, as copper can, especially in non-potable water applications. And, since FlowGuard Gold is already a proven system, ReUze meets all of the same requirements for the commercial applications engineers are accustomed to designing.

EASY, RELIABLE INSTALLATION

ReUze is joined quickly and easily with a low VOC, single-step solvent cement, a reliable and common installation method in the plumbing industry. Charlotte Pipe offers the ReUze system in sizes from ½" through 2" in 20' lengths, with corresponding FlowGuard Gold CTS fittings.

QUICK IDENTIFICATION

The new ReUze piping system is clearly and permanently marked "NON-POTABLE WATER / DO NOT DRINK" and is identifiable by its purple color – the industry standard for non-potable systems. To protect the pipe, Charlotte Pipe delivers the material to distributors in sealed heavy-duty polyethylene bags.

LEED POINTS

According to USGBC's website, "Every single system in a building is affected by water. It connects and interacts with everything. In the U.S., buildings account for 13.6 percent of potable water use." The use of non-potable water directly contributes to earning LEED points. The LEED rating system "encourages projects to reuse water, including reclaimed wastewater, graywater, condensate, process water, and rainwater, for irrigation, toilet flushing and more."

SUGGESTED SPECIFICATION FOR THE REUZE SYSTEM

All pipe and fittings shall be manufactured from CPVC compound with a cell class of 24448 for pipe and 23447 for fittings as per ASTM D 1784, conform with NSF International Standard 14. The pipe shall be listed by NSF International for reclaimed water and bear the mark "NSF-rw."

½" through 2" sizes: ReUze® made with FlowGuard Gold® CPVC Copper Tube Size manufactured to standard dimension ratio (SDR) 11 and shall conform to ASTM D 2846. Pipe shall be purple pigmented and have two rows of marking 180° apart to include "CAUTION: NON-POTABLE WATER, DO NOT DRINK." Fittings shall be either tan or purple in color. Transition fittings shall have brass male or female connections with integral CPVC socket connections as manufactured by Charlotte Pipe and Foundry Company.®

All pipe and fittings shall be produced by a single manufacturer and be installed in accordance with manufacturer's recommendations and applicable code requirements. System shall be joined using approved one-step solvent cement conforming to ASTM F 493. Pipe and fittings shall be manufactured by Charlotte Pipe and Foundry Company and are intended for hot and cold non-potable water distribution systems.

**For more information
on the ReUze system,
please contact your
Charlotte Pipe sales or
technical services rep,
or visit
www.charlottepipe.com**

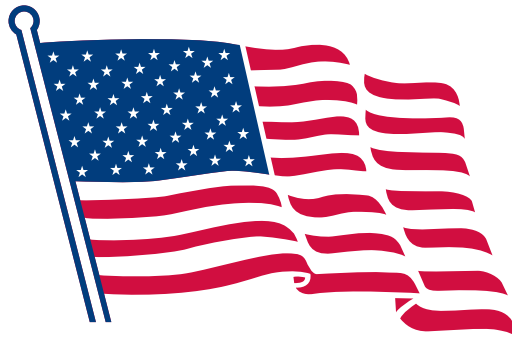
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All products manufactured by
Charlotte Pipe and Foundry Company
are proudly made in the U.S.A.

