

Discover what's green about Charlotte Pipe®

CHARLOTTE
PIPE AND FOUNDRY COMPANY



Reduce. Reuse. Recycle.

While this may be new to some, Charlotte Pipe has practiced these environmentally friendly principles for years, both in our manufacturing processes and with our product offering. Whether it be our reduction of municipal water use, reusing our own clean scrap PVC in our plant, or cast iron products that are made from a minimum of 95 percent recycled content, we understand the importance of being environmentally responsible.

GREEN PRODUCTS

CAST IRON

Our Cast iron pipe and fittings are made from a minimum of 95 percent recycled content and are 100 percent recyclable, resulting in millions of tons of scrap iron being recycled over the last several decades. Everything from refrigerators to car engines are melted in our cupola to produce a product that is not only “green,” but durable. Cast iron has been, and in some cases still is, in use after one hundred years of service. And after its service life it can be recovered and melted again into new cast iron pipe.

Another environmental benefit of cast iron systems occurs during underground installation. Unlike plastic pipe, cast iron is a rigid material that does not depend on sidefill for support, so the trench can be as narrow as the installer needs to make joint connections. The result is less site disturbance, soil erosion, waterway sedimentation and airborne dust generation.

RePVC®

Unlike traditional PVC pipe, the center layer of our RePVC pipe is made of recycled material, which slows the consumption of raw materials and reduces the amount of waste entering landfills. The inner and outer skins are made of virgin materials, as required by the manufacturing standard (ASTM F 1760).

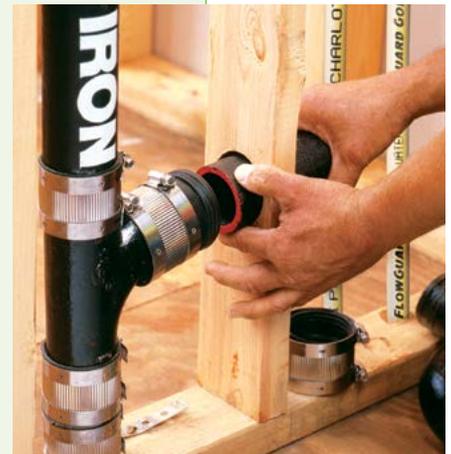
RePVC is easy to install, maintenance-free, and it meets the industry standards for traditional PVC DWV pipe. This means it can be used in the same applications and achieve the same great results.

RePVC is the first NSF-listed PVC Schedule 40 pipe with recycled content on the market.

ReUZE®

ReUze is the answer to engineers and contractors looking for a well-marked, efficient way to distribute non-potable water inside a building or home. The first purple CPVC pipe, it is clearly marked “WARNING: NON-POTABLE WATER DO NOT DRINK”. The color and markings ensure that water lines fit for human consumption are not cross-connected with non-potable water lines.

ReUze meets all of the same requirements as our FlowGuard Gold® CTS CPVC domestic water piping systems. It is ideal for many indoor applications that can use reclaimed, gray and rain water for laundry, toilet and urinal flushing, and cooling tower make-up water.



LEED® POINTS*

LEED is an acronym for Leadership in Energy and Environmental Design. The goal of LEED is to substantially reduce or eliminate negative environmental impacts through construction and operations practices. The LEED Rating Systems comprise of prerequisites and credits in eight categories. In order to have a LEED Certified building, the project must earn a minimum of 40 LEED points.

Below are just some of the ways that our Cast Iron and ReUze systems may contribute to earning LEED points.

CAST IRON AND LEED

Cast iron's noise abatement qualities are an asset to Indoor Environmental Quality (EQ). As an example, in LEED v4 there is a prerequisite and a credit for Acoustic Performance. The intent of this prerequisite is "to provide classrooms that facilitate...communication through effective acoustic design," and the intent of the credit is "to provide workspaces and classrooms that promote occupants' well-being, productivity, and communications through effective acoustic design." Cast iron can allow a project to meet the composite sound transmission class required for this credit. For more information on measuring the sound in Plastic and Cast Iron plumbing systems, visit www.charlottepipe.com/dwvsoundtest.

REUZE AND LEED

Many of the Water Efficiency (WE) credits can be achieved by installing non-potable water distribution systems. ReUze is an integral part of these systems. At a minimum, there are 12 possible WE points, and this number can increase if any of the WE credits are deemed a Regional Priority by the USGBC regional councils and chapters. In such cases, ReUze can contribute to earning up to 16 LEED points which is 40% of the points required for LEED Certification.

WE Credits Achieved Through Non-potable Water Systems

- Outdoor Water Use Reduction
- Indoor Water Use Reduction
- Cooling Tower Water Use

*For clarity and confirmation on receiving LEED points for your project, please consult with a LEED professional.

RESPONSIBLE MANUFACTURING

Charlotte Pipe has adapted green-friendly practices into its manufacturing. We are a major recycler in North Carolina, annually processing more than 350 million pounds of scrap iron and steel. Cast iron scrap materials are recycled internally, resulting in little to no waste from the manufacturing process.

Also, 100 percent of inert slag, a manufacturing byproduct, is recycled into cinder blocks and road materials. This is material that used to be sent to landfills. And the sand used in the foundry process is recycled numerous times.

We have a wastewater treatment system that pre-treats all wastewater used in the foundry process. The system has helped decrease the foundry's consumption of city water from 100 million gallons a year to 33 million gallons, discharging less than 9 million gallons into the city sewer – cleaner than when we received it.

Charlotte Pipe has received a Charlotte-Mecklenburg Blue Thumb Award and a Charlotte-Mecklenburg Environmental Excellence in Industry Award for its continued efforts at reducing city water demand and recycling 100 percent of its treated process water.

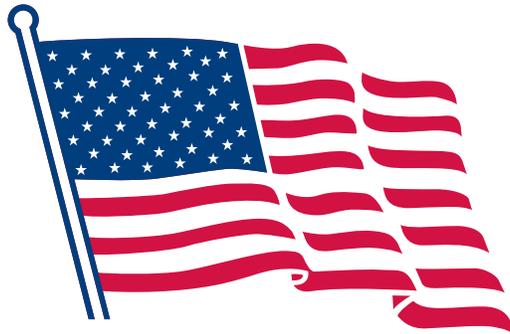
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All products manufactured by
Charlotte Pipe and Foundry Company
are proudly made in the U.S.A.

