

# REINFORCED Concrete Pipe

Manufactured in the USA by



## A Proven Solution for Fire-Resistant Storm Water Infrastructure

Reinforced concrete pipe is the preferred choice for storm water systems across the country. With a proven history of reliability, it's clear why municipalities and contractors rely on concrete pipe to build resilient infrastructure.

### A Dependable System for High-Flow Applications

Reinforced concrete pipe is a time-tested solution for storm water systems and diverse municipal applications. RCP is designed and manufactured to withstand a complete range of underground environments and effluent profiles. Concrete pipe serves as both a conduit and a structure, a characteristic that sets it apart from flexible materials.

RCP offers many benefits for flood-resilient infrastructure. Manufactured in larger diameters than other materials, RCP offers greater flow capacity to reduce flooding and prevent erosion. In the event of a flood, the weight of concrete pipe helps it resist floatation, unlike lighter pipe materials such as PVC, HDPE, or metal, which can be displaced by fast-moving flood waters.

### A Resilient Choice for Evacuation Routes

Wildfires can have devastating effects on pipelines. Unlike other products used for pipeline infrastructure, concrete pipes are inherently fire-resistant, which protects evacuation routes from collapse, flooding, and erosion. Safety-conscious engineers specify concrete pipe to reduce the risk of vital pipeline infrastructure melting and

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collapsing, compromising evacuation routes, and releasing harmful chemicals into the environment in the event of a wildfire.

Even in areas that aren't prone to wildfires, fire resistance should remain a priority for buried infrastructure. Plastic pipes are vulnerable to fire-related vandalism and accidents. Burned out pipes require the replacement of both pipes and the roadway above them.

## Reinforced Concrete Pipe

# Unmatched Durability

Concrete pipe maintains structural integrity over a service life of 70 to 100 years, requiring minimal repairs. Its long service life limits the need for infrastructure replacement, and it integrates well with system expansions or alterations, even years after installation. Concrete resists the effect of most elements, whether buried or exposed, and doesn't burn, rust, tear, buckle, or deflect.

### Environmentally Friendly

Comprised of the most common building materials, concrete pipe is made with local and domestic materials. Aggregates are sourced from local, sustainably managed quarries. All steel is made in America, which boasts a recycled content of 93% on average. Concrete pipe is fully recyclable at no added cost to the consumer. Pipes are crushed into recycled concrete aggregate, and steel reinforcement components are magnetically extracted. Both materials are sold through well-established markets. Additionally, concrete pipe's rigid nature makes it ideal for salvage and reuse for other projects.

### Strength to Meet Any Load Requirement

Precast concrete pipe offers the strongest compressive strength of any pipe material. Changes in mix design, type of aggregates and cementitious materials, and manufacturing and curing processes can be specified to meet any load requirement. Our experienced engineering team will partner with you to be sure your product meets project needs.

- Compressive strengths range between 4000 to 8000 psi
- Concrete pipe strength is standardized by ASTM C76 and AASHTO M170
- Steel reinforcement adds to inherent strength



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### Your Full-Service Partner

Construction professionals rely on County Materials to support them through every phase of construction, utilizing the highest quality products. Our team delivers satisfactory results with extensive quality assurance testing before, during, and after casting.



**For Concrete Pipe and Precast inquiries, contact your regional County Materials facility:**

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