ABOUT MCWANE PLUMBING TECHNICAL SERVICES

Today, there is overwhelming pressure to try to reduce building-related construction costs that ultimately cheapen a building by de-valuing the overall structure. While there may be initial material cost savings, it usually comes at a price somewhere else down the line. The storm and sanitary drain, waste and vent (DWV) plumbing system is one location where “de-value engineering” is not a good idea. The reason is simple, the DWV system is an integral part of the structure, making it very costly to change a mistake or replace sub-par alternative products. Building owners, facilities managers, contractors and engineers need to demand the best product with the best performance. That’s why cast iron soil pipe and fittings are the right choice for storm and sanitary DWV systems.

The McWane Plumbing Technical Services team (MPTS) is a full-range service organization that educates plumbing and mechanical engineers, facilities managers, building owners and inspectors about standards and regulations that cover cast iron soil pipe, fittings, couplings, gaskets and drainage products for storm and sanitary drain, waste and vent (DWV) plumbing systems.

Our approach is to provide an invaluable educational service highlighting important information about quality cast iron DWV plumbing system components sold by both the McWane Plumbing Technical Services group and alternative competitive materials.

MPTS plays an active role by offering assistance to those interested in better understanding the benefits of using a cast iron plumbing system in a building application. In addition, MPTS functions as advisors answering questions regarding testing, technical, and installation topics that will ultimately result in a cast iron DWV plumbing system made using the highest-quality materials in a design, while ensuring conformance with industry codes and standards. We also demonstrate how these products have earned certifications from NSF and CISPI. Our services are provided at no cost.

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McWane PLUMBING
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CAST IRON DWV SYSTEM
THE RIGHT CHOICE

Domestic cast iron soil pipe and fittings—the right choice for storm and sanitary drain, waste and vent (DWV) plumbing systems.

Choose Domestic Cast Iron for Your DWV Plumbing System

Domestic cast iron soil pipe and fittings have been used safely and reliably in residential and commercial buildings behind walls and under foot for generations. Domestic cast iron has been manufactured here in the US for over a century. It is reliable and durable—and carries the quality assurance marks of the Cast Iron Soil Pipe Institute (CISPI) and NSF. There are many reasons for choosing a domestic cast iron piping system.

Excellent Sound Performance

Cast iron offers excellent sound performance. Studies show that a cast iron DWV system is more efficient in reducing plumbing related noise compared to noisy plastic PVC and ABS piping. This makes a cast iron system the best choice for high-rise buildings, schools, hospitals and condominiums.

Cast iron systems are quiet and are often referred to as a “quiet system.” In fact, a study found cast iron to be 10 times quieter than a plastic piping system.

By virtue of its natural density and the use of compression gaskets and couplings cast iron pipe and fittings shield the transmission of sound—sound deadening is built in unlike plastic piping often requiring wrapping of the pipes to reduce plumbing noises.

Non-Combustible Characteristics

Cast iron soil pipe is non-combustible.

Cast iron soil pipe requires simple caulking or mortar unlike plastic that requires complex fire-stop systems to protect through penetrations.

A complex intumescent fire-stopping system for PVC is significantly more expensive than the simple and low-cost measures required for cast iron.

Intumescent materials are generally used to fire-stop plastic pipe through penetrations, commonly used in “fire-stop collars.”

Additional material costs for each penetration, usually an upcharge from the contractor performing the fire-stopping.

Additional labor charges by the contractor doing the fire-stop penetration protection.

Varying or unknown service life of the intumescent material in the fire-stop device.

Inspection of systems annually as required by the fire code.

Code Issues.

Green Attributes

Domestically manufactured cast iron soil pipe has been confirmed and documented to contain at least 95.81% recycled content.

Cast iron soil pipe can be recovered and recycled again and again, keeping it out of landfills.

A cast iron system uses compression gaskets and couplings therefore it does not rely on Volatile Organic Compound (VOC) laced solvents for a joining method.

No respirators are need for installation as recommended for plastic piping.

Domestic cast iron manufacturers believe in being good environmental stewards and share concerns about our generations’ legacy.

Ease of Installation

It is easy to install—the use of compression gaskets and stainless steel couplings make it simple to install and to modify or alter if needed.

It is durable and reliable—non-corrosive and non-combustible with excellent crush and deflection resistance in underground applications.

It requires fewer supports for hanging—only need hangers every ten feet or within eighteen inches of each coupling. A plastic system requires additional hangers and other materials increasing labor and material costs.

Cast iron soil pipe does not require extensive and special trenching and backfill procedures unlike plastic piping systems.

Cast Iron expands and contracts at roughly the same rate as concrete, thereby not requiring expensive and problematic expansion joints like plastic pipe systems.

Domestic Cast Iron—Reclaimed, Recycled, Responsible

With all of the benefits listed above and the knowledge of the potential pitfalls and issues by choosing an alternative system, why would you accept anything but the highest-quality product with the greatest benefits as the backbone of your plumbing system? Cast Iron. Remember, unlike fixtures and other items that can be easily changed, you only get one chance to do it right. Stick with the proven and preferred material this country was built on—cast iron soil pipe and fittings.

Cast iron soil pipe and fittings have been used for hundreds of years around the world. The reason cast iron has survived the test of time is because it is highly reliable and durable often outlasting the lifetime of a building. A cast iron storm and sanitary drain, waste and vent (DWV) plumbing system also has significant qualities making it the ideal choice for schools, hospitals, high-rise buildings and commercial construction.