



CSI: DIVISION: 22 00 00 – PLUMBING
Section: 22 13 16 – Sanitary Waste and Vent Piping

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system

Product: Cast Iron Soil Pipe and Fittings (No Hub)

Listee: Charlotte Pipe and Foundry Company
P.O. Box 35430
Charlotte, NC 28208

Compliance with the following codes:

2021, 2018, 2015, 2012 and 2009 *International Plumbing Code® (IPC)*
2021, 2018, 2015, 2012 and 2009 *International Residential Code® (IRC)*
2021, 2018, 2015, 2012 and 2009 *Uniform Plumbing Code® (UPC)**
2017 *Uniform Illustrated Plumbing Code – India™ (UIPC-I)**
**Uniform Plumbing Code is a copyrighted publication of the International Association of Plumbing and Mechanical Officials*

Compliance with the following standards:

CISPI 301-2021 (Including Annex A), Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications
ASTM A888-2021a (Including Annex A1), Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications

Identification:

Each length of pipe and each fitting shall be plainly marked with the country of origin, the manufacturer's name or the manufacturer's registered trademark by which the manufacturer can be readily identified after installation and any appropriate collective mark (optional). The marking shall be adequate identification of the manufacturer of the pipe and fittings of it readily identifies the manufacturer to the end user of the product. Markings shall be cast on fittings.

Pipe markings: The pipe shall be marked continuously on the barrel with a minimum of 0.75-inch (19mm) lettering starting within 3 inches of each end of the pipe. Each pipe shall be marked with the date of manufacture. The marking shall be stenciled on the pipe or otherwise applied so as to be clear and legible.

Fitting markings: The marking shall be cast with raised letters that are not to be located within the "W" dimension. Cast markings shall be raised from the wall of the fitting unless otherwise noted.

The ICC-ES PMG mark of conformity may be put on the product as an option.

Models:

Charlotte Pipe and Foundry Company Cast Iron Pipe and Fittings are used in Sanitary Waste Systems and Storm Drain Systems in accordance with the applicable code.

PIPE: Hubless Cast Iron Pipe in 5 and 10 Foot Nominal Lengths.

SIZES: 1-1/2", 2", 3", 4", 5", 6", 8", 10", 12" & 15"

FITTINGS:

<u>Description</u>	<u>Sizes</u>
1/4 Bend:	1-1/2", 2", 3", 4", 5", 6", 8"
Reducing 1/4 Bend:	4" x 3"
1/4 Bend w/Side Opening:	3" x 2", 4" x 2"
1/4 Bend w/Heel Opening:	3" x 2", 4" x 2"
1/4 Bend w/Heel Inlet (Extended):	3" x 2", 4" x 2"
1/4 Bend, Tapped:	1-1/2" x 1-1/4", 1-1/2" x 1-1/2", 2" x 1-1/4", 2" x 1-1/2"
1/4 Bend, Long Radius Tapped:	1-1/2" x 1-1/2"
Double 1/4 Bend (Vent Only):	2", 3", 4"
Long 1/4 Bend:	2" x 12", 2" x 14", 2" x 16", 2" x 18", 3" x 12", 3" x 18", 4" x 12", 4" x 18"
Short Sweep:	2", 3", 4", 5", 6", 8", 10", 12", 15"
Short Sweep, Double:	2"
Long Sweep:	1-1/2", 2", 3", 4", 5", 6", 8"
Reducing Long Sweep:	3" x 2", 4" x 3"
1/5 Bend:	2", 3", 4"
1/6 Bend:	2", 3", 4"
1/8 Bend:	1-1/2", 2", 3", 4", 5", 6", 8", 10", 12", 15"
Long 1/8 Bend:	2" x 12", 2" x 14", 2" x 16", 2" x 18", 3" x 12", 3" x 18", 4" x 12"
1/16 Bend:	1-1/2", 2", 3", 4", 5", 6", 8"
Sanitary Tee:	1-1/2", 2" x 1-1/2", 2", 3" x 1-1/2", 3" x 2", 3", 4" x 2", 4" x 3", 4", 5" x 2", 5" x 3", 5" x 4", 5", 6" x 2", 6" x 3", 6" x 4", 6" x 5", 6", 8" x 2", 8" x 3", 8" x 4", 8" x 5", 8" x 6", 8"
Sanitary Tee w/Hi-Vent:	2" x 2" x 2"
Increasing Sanitary Tee:	3" x 3" x 4"

Increasing Sanitary Tee w/2" Side Opening (R or L):	3" x 3" x 4" x 2"
Sanitary Tee w/R or L:	3" x 3" x 2", 4" x 2" x 2"
Side Opening:	4" x 3" x 2", 4" x 4" x 2"
Sanitary Tee w/2" Side Opening w/ R or L Opening or Both:	3" x 3" x 2", 4" x 4" x 2"
Sanitary Tee w/Side Opening Above Center (R or L or Both):	3" x 3" x 2", 4" x 4" x 2"
Sanitary Tee w/45° Side Openings Above Center (R or L or Both):	3" x 3" x 2", 4" x 4" x 2"
Sanitary Tapped Tee:	1-1/2" x 1-1/4", 1-1/2" x 1-1/2", 2" x 1-1/4", 2" x 1-1/2", 2" x 2", 3" x 1-1/4", 3" x 1-1/2", 3" x 2", 3" x 3", 4" x 1-1/4", 4" x 1-1/2", 4" x 2", 5" x 1-1/4", 5" x 1-1/2", 5" x 2"
Sanitary Tee w/Tap on Top:	2" x 1-1/2" x 2"
Sanitary Tee w/Hi-Vent Tap:	2" x 1-1/2" x 2"
Sanitary Tapped Tee w/Tap:	2" x 1-1/2" x 1-1/2"
On Top:	2" x 1-1/2" x 2", 2" x 2" x 1-1/2"
Sanitary Tapped Tee w/90°:	2" x 2" x 2", 2" x 1-1/2" x 1-1/2",
Side Sanitary Tap:	3" x 2" x 2", 3" x 1-1/2" x 1-1/2"
Horizontal Twin Sanitary Tapped Tee:	2" x 1-1/2", 3" x 1-1/2", 4" x 1-1/2"
Double Vertical Sanitary:	2" x 1-1/2", 3" x 1-1/2"
Tapped Tee:	4" x 1-1/2"
Wye:	1-1/2", 2", 3", 4", 5", 6", 8", 10", 12", 15", 3" x 2", 4" x 2", 4" x 3", 5" x 2", 5" x 3", 5" x 4", 6" x 2", 6" x 3", 6" x 4", 6" x 5", 8" x 2", 8" x 3", 8" x 4", 8" x 5", 8" x 6", 10" x 4", 10" x 6", 10" x 8"
Wye w/2" Side Opening(R or L):	3", 4"
Wye, Tapped (Single or Double):	2" x 1-1/2", 2" x 2", 3" x 1-1/2", 3" x 2", 4" x 1-1/2", 4" x 2"
Double Wye:	2", 3" x 2", 3", 4" x 2", 4" x 3", 4", 5" x 4", 6" x 4", 6", 8" x 4", 8" x 6", 8"
Wye 60°:	2", 3" x 2", 3", 4" x 2", 4"
Wye, Double, 60°:	3" x 2", 4" x 2"
Upright Wye:	2", 3" x 2", 3", 4" x 2", 4" x 3", 4"
Upright Wye - Wide Center:	3", 4" x 3", 4"
Combination Wye & 1/8 Bend:	1-1/2", 2", 3", 4", 5", 6", 8", 2" x 1-1/2", 3" x 2", 4" x 2", 4" x 3", 5" x 2", 5" x 3", 5" x 4", 6" x 2", 6" x 3", 6" x 4", 6" x 5", 8" x 4", 8" x 5", 8" x 6"

Combination Wye & 1/8 Bend:	3" x 2" x 3", 3" x 3" x 4", 4" x 2" x 4"
Reducing:	4" x 3" x 3", 4" x 3" x 4"
Combination Wye & 1/8 Bend w/ Cleanout:	2" x 1-1/2" x 2", 3" x 2-1/2" x 3", 4" x 3-1/2" x 4"
Combination Wye & 1/8 Bend Double:	2", 3" x 2", 3", 4" x 2", 4" x 3", 4"
Sanitary Cross (Vent Only):	1-1/2", 2", 3", 4", 6", 8", 4" x 3", 6" x 5"
Sanitary Cross:	3" x 2", 4" x 2", 6" x 2", 6" x 3", 6" x 4", 8" x 4", 8" x 6"
Sanitary Cross w/Side Opening:	3" x 3" x 2", 4" x 4" x 2"
Increasing Sanitary Cross (Vent Only):	3" x 3" x 4" x 4"
Increasing Sanitary Cross w/2" Side Opening (Vent Only):	3" x 4" x 2"
Increasing Sanitary Cross w/Side Openings Above Center (Vent Only):	3" x 3" x 2", 4" x 4" x 2"
Sanitary Cross w/Two 45° Side Openings on Same Side (Vent Only):	3" x 3" x 2", 4" x 4" x 2"
Sanitary Tapped Cross:	2" x 1-1/4", 3" x 1-1/4", 3" x 1-1/2", 3" x 2", 4" x 1-1/4", 4" x 1-1/2", 4" x 2", 6" x 1-1/4", 6" x 1-1/2", 6" x 2"
Sanitary Tapped Cross (Vent Only):	1-1/2" x 1-1/4", 1-1/2" x 1-1/2", 2" x 1-1/2", 2" x 2"
Test Tee (IPS Tap Same as Nominal Unless Indicated):	2", 3", 4" x 3-1/2", 4", 5", 6", 8", 10"
Test Tee, Extended:	3" x 3" x 2-1/2" x 18", 3" x 3" x 3" x 18", 4" x 4" x 3-1/2" x 18"
Test Tee, Extended:	3" x 2" x 2-1/2" x 18"
Reducing:	3" x 2" x 3" x 18", 4" x 2" x 3-1/2" x 18", 4" x 3" x 3-1/2" x 18"
Test Tee, Reducing:	4" x 3" x 3-1/2"
Tapped Extension Piece:	2" x 1-1/2", 2" x 2", 3" x 3", 4" x 3-1/2" x 4" x 3-1/2" x 18"
Increaser — Reducer:	2" x 3", 2" x 4", 3" x 4", 4" x 6", 5" x 6"
Short Increaser — Reducer:	2" x 1-1/2", 3" x 2", 4" x 2", 4" x 3", 5" x 2", 5" x 3", 5" x 4", 6" x 2", 6" x 3", 6" x 4", 6" x 5", 8" x 2", 8" x 3", 8" x 4", 8" x 5", 8" x 6", 10" x 4", 10" x 6", 10" x 8"
Tapped Adaptors:	1-1/2" x 1-1/4", 1-1/2" x 1-1/2", 2" x 1-1/4", 2" x 1-1/2", 2" x 2", 3" x 1-1/4", 3" x 1-1/2", 3" x 2", 3" x 2-1/2", 4" x 3-1/2", 5" x 4", 6" x 5", 8" x 6", 12" x 4", 12" x 6", 12" x 8", 12" x 10", 15" x 4", 15" x 6", 15" x 8", 15" x 10", 15" x 12"
Blind Plug:	1-1/2", 2", 3", 4", 5", 6", 8", 10", 12", 15"
Iron Body Cleanout Tapped:	3", 4", 5", 6", 8"

P Trap:	1-1/2", 2", 3", 4", 6"
Long P Trap:	2" x 12", 2" x 14", 2" x 16", 2" x 18", 2" x 24"
Long P Trap, Tapped:	2" x 1-1/2" x 12", 2" x 2" x 12", 2" x 1-1/2" x 14", 2" x 2" x 14", 2" x 1-1/2" x 16", 2" x 2" x 16", 2" x 1-1/2" x 18" & 2" x 2" x 18"
Deep Seal P Trap:	2", 3", 4"
P Trap, Reducing:	3" x 2", 4" x 3"
P Trap w/Primer:	2", 3", 4"
P Trap w/Tapped Inlet:	1-1/2" x 1-1/4", 1-1/2" x 1-1/2", 2" x 1-1/4", 2" x 1-1/2", 2" x 2"
Hub Adaptor:	2", 3", 4"
Figure 1A Fitting:	2" x 2" x 1-1/2" x 1-1/2"
Figure 1B Fitting:	2" x 1-1/2" x 1-1/2" x 1-1/2"
Figure 2 Fitting, Single (L or R):	2" x 2" x 2" x 1-1/2", 2" x 2" x 1-1/2" x 1-1/2"
Figure 2 Fitting, Double:	2" x 2" x 2" x 1-1/2", 2" x 2" x 1-1/2" x 1-1/2"
Figure 5 Fitting:	2", 3" x 2" x 3", 3", 4" x 2" x 4", 4" x 3" x 4" & 4"
Figure 5 Fitting, Extended:	3" x 2" x 3", 4" x 2" x 4"
Figure 6 Fitting Regular or Extended (L or R or Double):	3" x 2", 4" x 2"
Figure 8 Fitting Extended Regular (L or R or Double):	3" x 2", 4" x 2"
Combination, Partition, Long:	2"
Carlson Fitting w/Hubless or Tapped Vent:	2" x 2" x 1-1/2" x 1-1/2" (No Hub Vent), 2" x 1-1/2" x 1-1/2" x 1-1/2", (Tapped Vent)
Stack Wye:	4" x 3" x 3-1/2"
Two Way Cleanout:	3" x 3" x 4", 4" x 3" x 4", 4" x 4" x 4", 6" x 6" x 6"
Twin Cleanout:	4"
Closet Bend:	3" x 4" x 4" x 16", 3" x 4" x 6" x 12", 3" x 4" x 6" x 16", 3" x 4" x 10" x 12", 3" x 4" x 10" x 16", 3" x 4" x 12" x 16", 4" x 4" x 4" x 16", 4" x 4" x 6" x 12", 4" x 4" x 6" x 16", 4" x 4" x 10" x 12", 4" x 4" x 10" x 16", 4" x 4" x 12" x 16"
Closet Flange:	4" x 3" x 3-1/2", 4" x 3" x 5-1/2", 4" x 4" x 4"
Stack Fitting (R or L):	3" x 4" x 2" x 2" x 2"

Conditions of Listing:

1. Charlotte Pipe and Foundry Company Cast Iron Pipe and Fittings must be installed in accordance with this listing, the applicable code and the manufacturer's published installation instructions. The instructions within this listing must govern if there are any conflicts between the manufacturer's published instructions and this listing.
2. Pipe and Fittings are under a quality control program with annual inspections by ICC-ES.