

# SUBMITTAL FOR CHARLOTTE PIPE® PVC SCHEDULE 80 PRESSURE PIPE AND FITTING SYSTEM

Date:	
Job Name:	Location:
Engineer:	Contractor:

# Scope:

This specification covers PVC Schedule 80 pipe and fittings for pressure applications. This system is intended for pressure applications where the operating temperature will not exceed 140° F.

## Specification:

Pipe and fittings shall be manufactured from virgin rigid PVC (polyvinyl chloride) vinyl compounds with a cell class of 12454 as identified in ASTM D 1784.

PVC Schedule 80 pipe shall be Iron Pipe Size (IPS) conforming to ASTM D 1785. Injection molded PVC Schedule 80 fittings shall conform to ASTM D 2467. PVC Schedule 80 threaded fittings shall conform to ASTM D 2464. Pipe and fittings shall be manufactured as a system and be the product of one manufacturer. All pipe and fittings shall be manufactured in the United States. Pipe and fittings shall conform to NSF International Standard 61 and the health effects portion of NSF Standard 14.

### Installation:

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry and shall conform to all applicable plumbing, fire, and building code requirements. Buried pipe shall be installed in accordance with ASTM F 1668 and ASTM D 2774. Solvent cement joints shall be made in a two-step process with a primer meeting ASTM F 656 and a medium- or heavy-bodied solvent cement conforming to ASTM D 2564. The system shall be protected from chemical agents, fire-stopping materials, thread sealant, plasticized-vinyl products or other aggressive chemical agents not compatible with PVC compounds. The system shall be hydrostatically tested after installation. **WARNING!** Never test with or transport/store compressed air or gas in PVC pipe or fittings. Doing so can result in explosive failures and cause severe injury or death.

# Referenced Standards:

ASTM D 1784: Rigid Vinyl Compounds ASTM D 1785: PVC Plastic Pipe, Schedule 80

ASTM D 2464 or D 2467: PVC Threaded Fittings, Schedule 80

ASTM D 2467: PVC Socket Fittings, Schedule 80

ASTM D 2564: Solvent Cements for PVC Pipe and Fittings

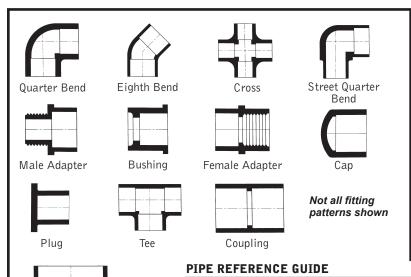
ASTM D 2774: Underground Installation of Thermoplastic Pressure Piping

Schedule 80

ASTM F 1668: Procedures for Buried Plastic Pipe

**Tapered Socket Dimensions** 

NSF Standard 14: Plastic Piping Components & Related Materials NSF Standard 61: Drinking Water System Components—Health Effects



### PVC SCHEDULE 80 - ASTM D 2467 Schedule 80 and Schedule 40 Socket Diameter Schedule 80 Schedule 40 Tolerance Socket Length Size C (Minimum) C (Minimum) 0.848 0.836 ±0.004 0.875 0.688 1.058 1.046 ±0.004 1.000 0.719 1.310 ±0.005 1.125 0.875 1.325 1.670 1.655 ±0.005 1.250 0.938 1.912 1.894 ±0.006 1.375 1.094 2.387 2.369 ±0.006 1.500 1.156 2.889 2.868 ±0.007 1.750 1.750 3.516 3.492 1.875 1.875 ±0.008 4.518 4.491 ±0.009 2.250 2.000 6 ±0.011 3.000 6.647 6.614 3.000 8 8.655 8.610 ±0.015 4.000 4.000 10 10.780 10.735 ±0.015 5.000 5.000 12.780 6.000 12.735 ±0.015 6.000

Sizes Available 3/8 1/2 3/4 11/2 2 21/2 Product 11/4 4 5 6 10 12 14 16 PVC Schedule 80

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Van Stone Flange