

# SUBMITTAL FOR CHARLOTTE PIPE® **PVC SCHEDULE 40 PRESSURE PIPE AND FITTING SYSTEM**

| Data  |  |  |  |  |
|---|--|--|--|--|
| Date:   |  |  |  |  |
| Job Name:   | Location:  |  |  |  |
| Engineer:   | Contractor:  |  |  |  |
| Scope:<br>This specification covers PVC Schedule 40 pipe a<br>pressure applications where the operating tempe | and fittings for pressure applications. This system is intended for rature will not exceed 140° F. |  |  |  |
| Specification:  | in rigid DVC (notwiny) obloride) viny) compounds with a call class of                              |  |  |  |

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 40 pipe shall be Iron Pipe Size (IPS) conforming to ASTM D 1785. Injection molded PVC Schedule 40 fittings shall conform to ASTM D 2466. 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. Solvent cement joints shall be made in a two-step process with primer conforming to ASTM F 656 and 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 40 ASTM D 2466: PVC Plastic Fittings, Schedule 40

ASTM D 2564: Solvent Cements for PVC

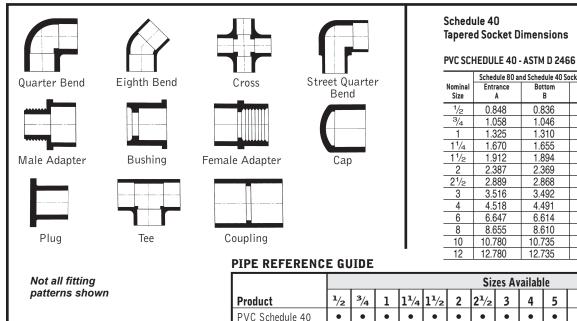
Pipe and Fittings

ASTM F 1668: Procedures for Buried Plastic Pipe

NSF Standard 14: Plastic Piping Components & Related Materials

NSF Standard 61: Drinking Water System Components -

Health Effects



Schedule 40 Schedule 80 and Schedule 40 Socket Diameter Schedule 80 Tolerance Socket Length Socket Length C (Minimum) C (Minimum) 0.836 ±0.004 0.875 0.688 1.046 ±0.004 1.000 0.719 1.310 ±0.005 1.125 0.875 1.655 ±0.005 1.250 0.938 1.894 ±0.006 1.375 1.094 2.369 ±0.006 1.500 1.156 2.868 ±0.007 1.750 1.750 3.492 1.875 1.875 ±0.008 4.491 ±0.009 2.250 2.000 ±0.011 3.000 6.614 3.000 8.610 ±0.015 4.000 4.000 10.735 ±0.015 5.000 5.000 6.000 12.735 ±0.015 6.000

> 6 8 10 12 14 16

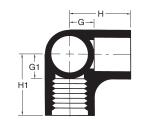
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Charlotte Pipe and Foundry Company • P.O. Box 35430 Charlotte, NC 28235 • (800) 438-6091 • www.charlottepipe.com

s C



Side Outlet Elbow SxSxFPT PVC PART NO. 2520



| Size            | Universal<br>Part Number | Н    | G    | H1   | G1  | Approx.<br>Wt. (Lbs.) |
|-----------------|--------------------------|------|------|------|-----|-----------------------|
| 3/4 X 3/4 X 1/2 | 414-101                  | 1%16 | 9/16 | 11/2 | 3/4 | 0.112                 |

## **45 Degree Elbow** sxs

PVC PART NO. 2309



| Size | Universal<br>Part Number | Н                               | J                              | Approx.<br>Wt. (Lbs) |
|------|--------------------------|---------------------------------|--------------------------------|----------------------|
| 1/2  | 417-005                  | 11/16                           | <sup>5</sup> /16               | 0.040                |
| 3/4  | 417-007                  | 1 <sup>5</sup> / <sub>16</sub>  | <sup>5</sup> /16               | 0.047                |
| 1    | 417-010                  | 17/16                           | <sup>5</sup> /16               | 0.120                |
| 11/4 | 417-012                  | 13/4                            | 1/2                            | 0.176                |
| 11/2 | 417-015                  | 1 <sup>29</sup> / <sub>32</sub> | 19/32                          | 0.216                |
| 2    | 417-020                  | 21/8                            | 3/4                            | 0.338                |
| 21/2 | 417-025                  | 2 <sup>15</sup> / <sub>32</sub> | <sup>1</sup> 1/ <sub>16</sub>  | 0.556                |
| 3    | 417-030                  | 2 <sup>27</sup> / <sub>32</sub> | <sup>27</sup> / <sub>32</sub>  | 0.835                |
| 4    | 417-040                  | 35/32                           | 1 <sup>3</sup> / <sub>32</sub> | 1.296                |
| 6    | 417-060                  | 51/4                            | 13/4                           | 3.878                |
| 8    | 417-080                  | 6 <sup>27</sup> /32             | 211/32                         | 7.912                |
|      |                          |                                 |                                |                      |