



MUNICIPAL

## Vertical Riser Kits (Fittings)

4" and 6" Vertical Riser Kits for Sewers

**Westlake**  
Pipe & Fittings

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## 4" and 6" Vertical Riser Kits for Sewers.

### ABOUT VERTICAL RISER KITS

Westlake Pipe & Fittings Vertical Risers for Sewers shall contain a Controlled Settlement Joint, a Vertical Riser Adapter, and a Deep Socket fitting. Controlled Settlement Joints used in a Vertical Riser Kit shall provide a minimum of 140mm (5½") of axial movement when forces of 500 pounds or greater are applied and shall be fabricated from pipe, which has been manufactured to CSA B182.2 specifications.

A moulded Vertical Riser Adapter shall be installed between the Controlled Settlement Joint and the bottom directional transition fitting. A moulded Deep Socket sewer fitting shall be used at the top of each riser assembly. Deep Socket fittings shall provide a minimum socket depth of 165mm (6½") below the fitting gasket race.



All fittings used in the Vertical Riser Kit shall be manufactured in accordance with CSA B182.2, ASTM D3034, F1336 and listed by NSF. Moulded fitting gaskets shall comply with ASTM F913 or F477. Moulded fitting gaskets shall be locked firmly in position with a green color-coded ring for easy identification and to prevent displacement. Moulded fitting gasket joints shall be listed by NSF as complying with the 200 psi requirements of ASTM D3212.

Moulded fittings shall be injection moulded from virgin PVC compound having a minimum cell classification of 12454 in accordance with, and certified by NSF, to meet ASTM D1784. Vertical Riser Kit for Sewers shall be assembled as per manufacturers installation instructions.

## Advantages of Gasketed Sewer Fittings include:

- Available as individual fittings or in convenient job-site ready pre-packed kits with all fittings shown in assembly.
- The addition of a Deep Socket Bend allows earth compaction and settlement to occur without pipe pulling out of the fitting socket as the installation settles. Pipe is fully inserted into the deep socket bend allowing a full six inches of movement without disengagement.
- The Controlled Settlement Joint provides up to 140mm (5½") of axial movement when encountering forces in excess of 500 lbs. Essentially, the Controlled Settlement Joint absorbs the forces exerted by compression allowing movement in the riser potentially eliminating both internal stresses from pipe push through and external forces generated by compressive earth load conditions.
- Vertical Riser Adapters prevent internal pipe push through or spearing, which can cause internal stress on fittings.
- The combination of the Vertical Riser Adapter and Controlled Settlement Joint provides an extra measure of security in the event the connection begins spearing action before reaching 500 lbs force.
- Westlake Pipe & Fittings provide square pipe stops, which require 30% more force before spearing occurs. Irregular cut pipe and irregular chamfers facilitate pipe push through by guiding pipe past the pipe stop.
- Scientifically formulated compounds are designed for deflection and ductility capable of absorbing excess deflection and system movement, while maintaining maximum crush resistance to facilitate mandrel tests.
- Westlake Pipe & Fittings are third party certified.



#### VERTICAL RISER KITS (TEE) INCLUDE:

- 2 - 45 Degree Elbows (G x Sp) (SDR26)
- 1 - 45 Degree Deep Socket Elbow (G x G) (SDR26)
- 1 - Control Settlement Joint (G x GG)
- 1 - Flange Adapter (Sp X Sp) (SDR26)

#### VERTICAL RISER KITS (WYE) INCLUDE:

- 3 - 45 Degree Elbows (G x Sp) (SDR26)
- 1 - 45 Degree Deep Socket Elbow (G x G) (SDR26)
- 1 - Control Settlement Joint (G x GG)
- 1 - Flange Adapter (Sp X Sp) (SDR26)

#### NOT INCLUDED:

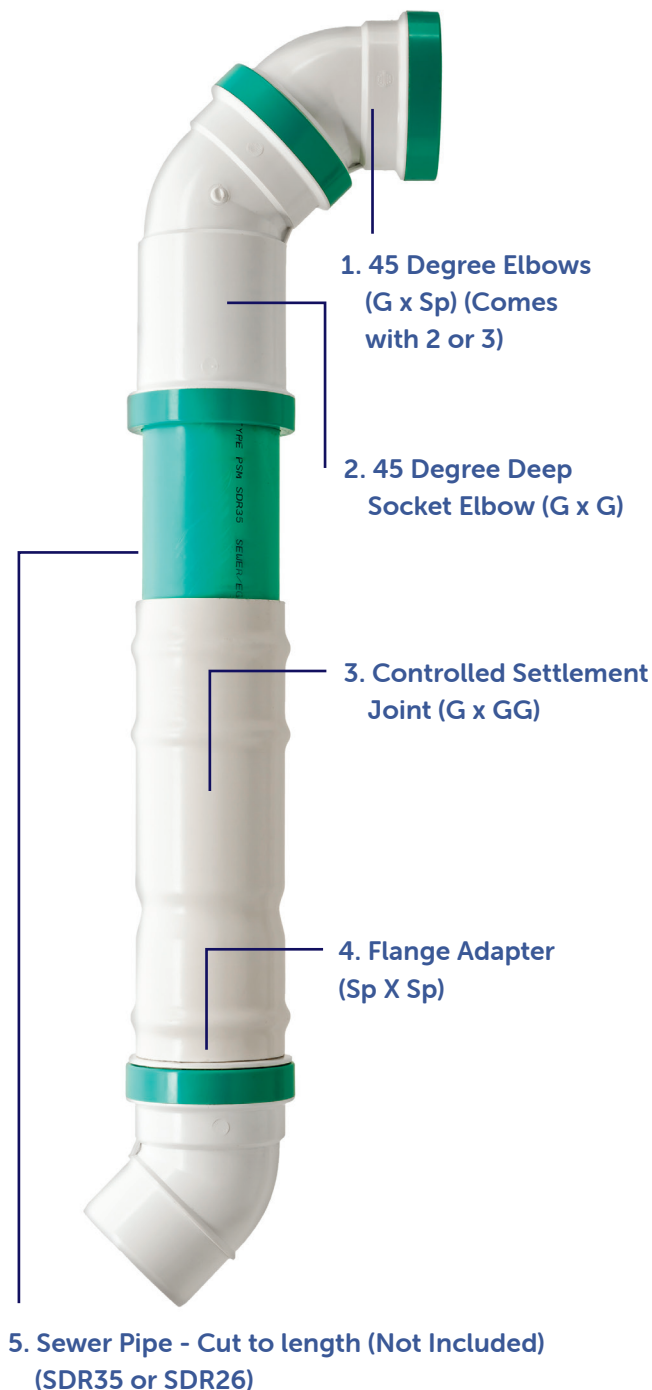
- Sewer Pipe - Cut to length (Can be SDR35 or SDR26)

#### Note:

- Deep Socket 45 degree elbow to be installed on Riser Pipe before Riser Pipe is installed on Control Settlement Joint.
- Mainline Fitting either Tee or Wye is not included in the Vertical Riser Kit.

#### CERTIFICATIONS

The components of the Vertical Riser Kits are certified to ASTM D3034 and F1336 standard and is listed by NSF.



For the Contractor and the Municipal engineer, our Vertical Riser Kits provide the peace-of-mind they require for their municipal sewer applications. See price list for installation instructions.

Visit [westlakepipe.com](http://westlakepipe.com) for additional marketing collateral as well as other innovative and industry leading products. Westlake Pipe & Fittings continues to work together to build neighborhoods of lasting value.



