

SDR-35 Sewer Pipe Depth of Bury Guide

Maximum Long-Term Deflection (Percent) of PVC SDR 35 Pipe

ASTM BEDDING CLASSIFICATION		DENSITY (PROCTOR) AASHTO T-99	HEIGHT OF COVER (FEET)													
			3	5	8	10	12	14	16	18	20	22	24	26	28	30
Gravel	Class I		<div> <div></div> Maximum long term deflection will not exceed 5% <div></div> Maximum 7.5% deflection <div></div> This zone not recommended </div>													
	Class II	90%														
		80%														
Sand	Class III	90%														
		85%														
		75%														
		65%														
Clay	Class IV	85%														
		75%														
		65%														
Peat	Class V	This Soil Class Not Recommended														

NOTE: Deflection values shown do not include effect of live load or longitudinal bending.

- No length of pipe installed under conditions specified will deflect more than is indicated; the pipe will deflect less than the amount indicated if specified density is obtained.
- External loading based upon soil weight of 120 lbs. per cubic foot.
- Deflections predicted are based upon pipe which was initially circular prior to installation. Actual deflections may differ because of initial out-of-roundness caused

by storage and/or handling. These variations should be taken into account when measured deflections are compared with those in the table.

- Bedding classifications are as indicated in the above table and correspond to ASTM D2321.
- Deflections listed in table are maximum long term values. The suggested maximum long term value is 7.5 percent which is approximately equal to a 5 percent initial deflection.
- Initial deflection is deflection taken within the first 24 hours after trench is backfilled.