

ADS UTILITY WATER SERVICE PIPE (IPS) PIPE SPECIFICATIONS

Scope

This specification describes ADS Utility Water Service Pipe (IPS) pipe SIDR 19, SIDR 15, and SIDR 11.5 for use in water service (non-potable) applications.

Pipe Requirements

ADS water service pipe shall meet the requirements of ASTM D2239. Pipe dimensions shall meet Iron Pipe Size (IPS) standards.

Material Properties

Pipe material shall be high-density polyethylene conforming to the minimum requirements of cell classification 345464C as defined and described in ASTM D3350, except that carbon black content should not exceed 3.5%. The resin shall have a material designation code of PE3608 (formerly PE3408) by the Plastic Pipe Institute.

Installation

Installation is similar to other flexible tubing/pipe products. Methods including direct bury, plowing or pulling are applicable per local, state or federal guidelines for the application.

		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
SIDR 19	Inside Diameter in (mm)	0.622 ±0.01 (15.8 ±0.25)	0.824 ±0.015 (20.9 ±0.38)	1.049 ±0.02 (26.6 ±0.51)	1.380 ±0.02 (35.1 ±0.51)	1.610 ±0.015 (40.9 ±0.38)	2.067 ±0.015 (52.5 ±0.51)
	Wall Thickness in (mm)	0.060 +0.02 (1.5 +0.51)	0.060 +0.02 (1.5 +0.51)	0.060 +0.02 (1.5 +0.51)	0.073 +0.02 (1.8 +0.51)	0.085 +0.02 (2.1 +0.51)	0.109 +0.020 (2.7 +0.51)
	Pressure Rating 73°F psi (kPa)	80 (551)	80 (551)	80 (551)	80 (551)	80 (551)	80 (551)
	Weight gm/ft (gm/m)	30 ±2 (98 ±7)	39 ±2 (128 ±7)	47 ±2 (138 ±7)	99 ±3 (290 ±10)	96 ±3 (281 ±10)	190 ±5 (623 ±16)
SIDR 15	Inside Diameter in (mm)	0.622 ±0.01 (15.8 ±0.25)	0.824 ±0.015 (20.9 ±0.38)	1.049 ±0.02 (26.6 ±0.51)	1.380 ±0.02 (35.1 ±0.51)	1.610 ±0.02 (40.9 ±0.51)	2.067 ±0.02 (52.5 ±0.51)
	Wall Thickness in (mm)	0.060 +0.02 (1.5 +0.51)	0.060 +0.02 (1.5 +0.51)	0.070 +0.02 (1.8 +0.51)	0.092 +0.02 (2.3 +0.51)	0.107 +0.02 (2.7 +0.51)	0.138 +0.020 (3.5 +0.51)
	Pressure Rating 73°F psi (kPa)	100 (689)	100 (689)	100 (689)	100 (689)	100 (689)	100 (689)
	Weight gm/ft (gm/m)	30 ±2 (98 ±7)	39 ±2 (128 ±7)	56 ±2 (184 ±7)	97 ±3 (318 ±10)	129 ±3 (423 ±10)	200 ±5 (656 ±16)
SIDR 11.5	Inside Diameter in (mm)	0.622 ±0.01 15.8 ±0.25	0.824 ±0.015 20.9 ±0.381	1.049 ±0.02 26.6 ±0.51	1.380 ±0.02 35.1 ±0.51	1.610 ±0.02 40.9 ±0.51	2.067 ±0.02 52.5 ±0.51
	Wall Thickness in (mm)	0.060 +0.02 (1.5 +0.51)	0.072 +0.02 (1.8 +0.51)	0.091 +0.02 (2.3 +0.51)	0.120 +0.02 (3.0 +0.51)	0.140 +0.02 (3.6 +0.51)	0.180 +0.020 (4.6 +0.51)
	Pressure Rating 73°F psi (kPa)	125 (862)	125 (862)	125 (862)	125 (862)	125 (862)	125 (862)
	Weight, gm/ft (gm/m)	30 ±2 (98 ±7)	50 ±2 (164 ±7)	72 ±2 (236 ±7)	125 ±3 (410 ±10)	146 ±3 (479 ±10)	248 ±5 (814 ±16)

* Additional SIDRs may be available. Contact an ADS Representative for regional availability.