

## SUBMITTAL FOR ATLANTA PIPE uPVC WATER DISTRIBUTION SYSTEM

### SCOPE

This standard specifies the requirements for unplasticised poly vinyl chloride (uPVC) pipes with nominal outside of 63 mm to 500 mm intended for the conveyance of potable water under pressure and of temperature up to 45° C. Pipe shall be classified in accordance with the pipe series and/or the nominal pressure as follows:

- Series 10 (PN 0.86 MPa)
- Series 8 (PN 1.03 MPa)
- Series 7 (PN 1.25 MPa)

### SPECIFICATION

The material from which the pipes are made shall consist substantially of polyvinyl chloride that conforms to PNS 291, to which may be added only those additives necessary to facilitate the manufacture of quality pipes of good surface finish and sound physical, mechanical and chemical properties. Pipe shall be made and manufactured from virgin rigid PVC (polyvinyl chloride) vinyl compounds with a cell classification of 12454 as identified in ASTM D 1784. The product is conforming to the PNS 65 (Philippine National Standard), the governing manufacturing quality standards. All pipe and fittings shall be manufactured in the Philippines.

### INSTALLATION

Installation shall comply with the latest installation instructions published or with supervision by Atlanta Industries, Inc. and shall conform to all applicable plumbing and building code requirements. Buried pipe shall be installed in accordance with ASTM D 2321. Elastomeric sealing ring type joints shall be used for sizes 63 mm up to 500 mm. The elastomeric sealing ring shall conform to PNS 1008/ ISO 4633. The system shall be protected from chemical agents not compatible with uPVC compounds. The system shall be tested after installation through leak test for 24 hours as much as possible.

**WARNING!** Never test with or transport/store compressed air or gas in uPVC pipe and fittings. Doing so can result in explosive failures and cause severe injury or death.

### REFERENCE STANDARD

**PNS 65: 1993** : Unplasticized polyvinyl chloride (PVC-u) Pipes for Potable Water Supply – Specification



35<sup>TH</sup> Flr. Atlanta Center Bldg., No. 31 Annapolis  
St. Greenhills, San Juan City

 [www.facebook.com/atlantaindustriesincorporated](http://www.facebook.com/atlantaindustriesincorporated)

 [www.instagram.com/atlantaindustriesofficial](http://www.instagram.com/atlantaindustriesofficial)

 [www.atlanta.ph](http://www.atlanta.ph)

 [marketing@atlanta.ph](mailto:marketing@atlanta.ph)

**NOTE: Theoretical weight/s is based on a 6 meter (for Series 8 and 10) and 3 meter (for Series 7) pipe length.**

NOMINAL OUTSIDE DIAMETER		TOLERANCE	SERIES-10				SERIES-8				SERIES-7			
			WALL THICKNESS (mm)		THEORETICAL WEIGHT (kgs)		WALL THICKNESS (mm)		THEORETICAL WEIGHT (kgs)		WALL THICKNESS (mm)		THEORETICAL WEIGHT (kgs)	
mm	in	mm	min	max	min	max	min	max	min	max	min	max	min	max
63	2	+0.3	3.00	3.50	5.26	6.08	3.60	4.16	6.25	7.15	4.30	4.93	3.69	4.18
75	2-1/2	+0.3	3.60	4.16	7.51	8.61	4.30	4.93	8.88	10.09	5.10	5.81	5.21	5.87
90	3	+0.3	4.40	5.04	11.00	12.51	5.20	5.92	12.88	14.54	6.20	7.02	7.59	8.51
110	4	+0.4	5.30	6.03	16.21	18.32	6.30	7.13	19.09	21.43	7.50	8.45	11.23	12.54
160	6	+0.5	7.70	8.67	34.26	38.33	9.2	10.32	40.53	45.13	11.00	12.30	23.94	26.54
225	8	+0.7	10.80	12.08	67.59	75.15	12.9	14.39	79.94	88.55	15.40	17.14	47.15	52.05
280	10	+0.9	13.50	15.05	105.12	116.50	16	17.8	123.41	136.36	19.20	21.32	73.15	80.57
315	12	+1.0	15.20	16.92	133.14	147.36	18	20	156.19	172.38	21.60	23.96	92.58	101.87
355	14	+1.1	17.10	19.01	168.82	186.61	20.3	22.53	198.51	218.85	24.30	26.93	117.39	129.06



35<sup>TH</sup> Flr. Atlanta Center Bldg., No. 31 Annapolis St. Greenhills, San Juan City

 [www.facebook.com/atlantaindustriesincorporated](http://www.facebook.com/atlantaindustriesincorporated)

 [www.instagram.com/atlantaindustriesofficial](http://www.instagram.com/atlantaindustriesofficial)

 [www.atlanta.ph](http://www.atlanta.ph)

 [marketing@atlanta.ph](mailto:marketing@atlanta.ph)