

SUBMITTAL FOR ATLANTA PIPE uPVC POTABLE WATER SUPPLY

SCOPE

This specification specifies the requirements for uPVC pipes with nominal outside diameter of 20 mm to 63 mm intended for the conveyance of potable water under pressure and of temperatures up to 45°C.

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 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. Solvent-cement type joints may be used for sizes 16mm to 63mm. Solvent cement joints shall conform to PNS 510/ ASTM D 2564. 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

NOTE: Theoretical weight/s is based on a 3 meter pipe length.

NOMINAL OUTSIDE DIAMETER		TOLERANCE	WALL THICKNESS (mm)		THEORETICAL WEIGHT (kgs)	
mm	in	mm	min	max	min	max
20	1/2	+ 0.3	1.80	2.18	0.48	0.57
25	3/4	+ 0.3	1.90	2.29	0.64	0.76
32	1	+ 0.3	2.00	2.40	0.88	1.04
40	1-1/4	+ 0.3	2.30	2.73	1.27	1.49
50	1-1/2	+ 0.3	2.90	3.39	2.00	2.31
63	2	+ 0.3	3.60	4.16	3.12	3.58

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