

Submittal for Atlanta uPVC Electrical Conduit System

SCOPE:

This specification covers uPVC Electrical Conduit System intended for the protection of electrical conduit wires and cables. It does not apply for corrugated and communication conduits. This system is recommended for direct burial or above ground installation without concrete encasement and for expose application.

SPECIFICATION:

The material from which the conduit pipe is produced shall be of polyvinyl chloride resin having at least a k-value of 65 to which additives may be added. 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. 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 joints shall conform to 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 14: 1983 :

Unplasticized polyvinyl chloride (uPVC) electrical conduit – Specification

NOMINAL OUTSIDE DIAMETER		TOLERANCE	WALL THICKNESS (mm)		THEORETICAL WEIGHT (kgs)	
mm	in		min	max	min	max
20	1/2	+ 0.3	2.20	2.62	0.57	0.67
25	3/4	+ 0.3	2.30	2.73	0.76	0.89
32	1	+ 0.3	2.40	2.84	1.04	1.21
40	1-1/4	+ 0.3	2.40	2.84	1.32	1.54
50	1-1/2	+ 0.3	2.40	2.87	1.67	1.98
63	2	+ 0.3	2.50	2.98	2.21	2.61
75	2-1/2	+ 0.3	2.90	3.39	3.05	3.55
90	3	+ 0.3	3.50	4.02	4.42	5.05
110	4	+ 0.4	4.20	4.82	6.49	7.41
160	6	+ 0.4	6.10	6.91	13.71	15.45