

# ultima Supra Series

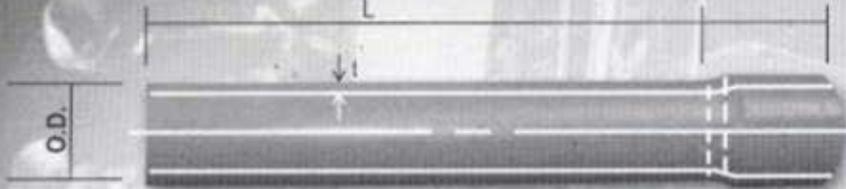
for Drain, Waste and Vent



# EMERALD

uPVC Pipes and Fittings

One name, One standard of Excellence.



### OUR GUARANTEE

EMERALD Series uPVC for Drain, Waste and Vent are manufactured through the most modern production technology and strict quality control procedures. Hence, it delivers superior product performance that assures trouble-free lifetime service.

Moreover, EMERALD supports customers by way of technical assistance and information on design, actual demonstration and such other traditional post sale service.

All EMERALD piping materials have the renowned EMERALD guarantee of reliability and superior quality.

**PHILIPPINE STANDARD REFERENCE**  
Bureau of Product Standards PNS/SAO 374 Department of Trade and Industry, RP

**INTERNATIONAL STANDARD REFERENCE**  
ASTM as per Designation D-2729 ISO 4435

### PIPES

NOMINAL SIZE		OUTSIDE DIAMETER mm	SERIES 600 WALL THICKNESS (mm)		SERIES 1000 WALL THICKNESS (mm)	
mm	inch		min.	max.	min.	max.
63	2	57.15	1.78	1.98	2.44	2.64
90	3	82.55	2.44	2.64	3.65	3.85
110	4	107.06	2.44	2.64	3.71	3.95
CLASS 34 Wall thickness (mm)						
			min.	max.		
160	6	160	4.70	4.95		
200	8	200	5.90	6.30		
250	10	250	7.30	8.30		
315	12	315	9.20	10.40		

### RESISTANCE TO EXTERNAL IMPACT TEST FOR SANITARY PIPES

NOMINAL SIZE mm	O.D. mm	BPS STANDARD			EMERALD STANDARD		
		weight of striker (kg)	height of striker (m)	Impact Energy (N-m)	weight of striker (kg)	height of striker (m)	Impact Energy (N-m)
63	57.15	0.8	1	7.84	6	2	117.6
90	82.55	1	2	19.6	6.5	2	127.4
110	107.06	1.6	2	31.36	6.5	2	127.4
160	160	3.2	2	62.72	7.5	2	147
200	200	4	2	78.4	7.5	2	147
250	250	5	2	98	7.5	2	147
315	315	6.3	2	123.48	7.5	2	147

## FITTINGS

### WIDEST RANGE OF INJECTION MOLDED FITTINGS IN THE INDUSTRY



- MAIN FEATURES**
- DEEPER SOCKETS
  - LONGER LAYING LENGTHS
  - THICKER WALLS



1/8 (45°) BEND

1/4 (90°) BEND

COUPLING

SAN WYE

SAN TEE

P-TRAP

CROSS WYE

CROSS TEE

C.O. ADAPTER W/ PLUG