NELTEX
DEVELOPMENT CO., INC.

REF#: 2013-022

CERTIFICATION

This is to certify that **NELTEX Development Co. Inc.** is producing **Neltex Pressureline uPVC Pipe Series 8** with sizes 63mm, 75mm, 90mm, 110mm, 160mm, 225mm, 280mm and 315mm with effective length of 6 meters.

Neltex Pressureline uPVC Pipes are inspected and tested in conformance to PNS 65:1993 Specification for Unplasticized Polyvinyl Chloride (uPVC) Pipes for Potable Water Supply.

Prepared by:

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Approved by:

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PHILIPPINE STANDARD
Quality Certification Mark
CERTIFIED
Product Quality

TÜV SÜD ISO 9001

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DEVELOPMENT CO., INC.

TECHNICAL SPECIFICATIONS

PRODUCT	Neltex Pressureline uPVC Pipe Series 8
REFERENCE STANDARD	PNS 65:1993 Specification for Unplasticized Polyvinyl Chloride (uPVC) Pipes for Potable Water Supply

A. DIMENSION

NOMINAL PIPE SIZE	OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	EFFECTIVE LENGTH
63mm	63.00 – 63.30	3.600 – 4.160	6 meters
75mm	75.00 – 75.30	4.300 – 4.930	6 meters
90mm	90.00 – 90.30	5.200 – 5.920	6 meters
110mm	110.00 – 110.40	6.300 – 7.130	6 meters
160mm	160.00 – 160.50	9.200 – 10.320	6 meters
225mm	225.00 – 225.70	12.900 – 14.390	6 meters
280mm	280.00 – 280.90	16.000 – 17.800	6 meters
315mm	315.00 – 316.00	18.000 – 20.000	6 meters

B. PHYSICAL PROPERTIES

PROPERTY	STANDARD REQUIREMENT		TEST METHOD
Vicat Softening Temperature	minimum 76^{0}C		ISO 2507 Unplasticized Polyvinyl Chloride (PVC) pipes and fittings – Vicat Softening Temperature
Longitudinal Reversion	wall thickness ≤ 8mm	5% maximum after 1 hour at 150^{0}C	ISO 2505 Thermoplastics Pipes – Longitudinal Reversion
	wall thickness > 8mm	5% maximum after 2 hours at 150^{0}C	
Water Absorption	maximum 40 g/m^{2}		ISO 2508 Unplasticized Polyvinyl Chloride (PVC) pipes and fittings – Water Absorption – Determination and specification

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PROPERTY	STANDARD REQUIREMENT		TEST METHOD
Resistance to Acetone	No sign of delamination or disintegration after 2 hours of immersion		ISO 3472 Unplasticized Polyvinyl Chloride (PVC) Pipes – Specification and Determination of Resistance to Acetone
Resistance to Sulfuric Acid	Mass of specimen shall not increase by more than 0.316g nor decrease my more than 0.013g		ISO 3473 Unplasticized Polyvinyl Chloride (PVC) Pipes – Effect of Sulphuric Acid – Requirement and test method
Hydrostatic Pressure	Burst Pressure	The pipe shall withstand 4.56MPa for at least 60 seconds without failure	ISO 1167 Thermoplastics Pipes, Fittings and Assemblies for the Conveyance of Fluids - Determination of the Resistance to Internal Pressure
	Short Term Pressure	The pipe shall withstand 4.30MPa for at least 1 hour without failure	
Resistance to External Blows (Impact Test)	True Impact Rate (TIR) shall not exceed 10% where TIR = total number of breaks / total number of blows		ISO 3127 Thermoplastics pipes – Determination of Resistance to External Blows – Round-the-clock Method
Flattening	No evidence of splitting, cracking or breaking when flattened to 40% of the outside diameter		ASTM D2241 Standard Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)

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