

PHILIPPINE GEOANALYTICS, INC LIST OF TESTING CAPABILITIES

A. Soil Drilling

SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
Grain Size Analysis	ASTM D422 / D7928	PAB Accredited
Atterberg Limit	ASTM D4318	PAB Accredited
Water (Moisture) Content	ASTM D2216	PAB Accredited
Moisture Content by Speedy Moisture Tester	ASTM D4944	Non-Accredited
Unified Soil Classification System	ASTM D2487	PAB Accredited
Specific Gravity	ASTM D854	PAB Accredited
Laboratory Compaction (MDD Modified)	ASTM D1557	PAB Accredited
Laboratory Compaction (MDD Standard)	ASTM D698	PAB Accredited
Laboratory CBR (California Bearing Ratio)	ASTM D1883	PAB Accredited
Swell Pressure (Undisturbed/ Remolded Sample)	Manual of Soil Laboratory Testing by K.H. Head (Volume 2)	Non-Accredited
Free Swell Index	Manual of Soil Laboratory Testing by K.H. Head (Volume 2)	Non-Accredited
Shrinkage Limit	ASTM D4943	PAB Accredited
Permeability Of Soil (Falling Head Method)	Bowles	Non-Accredited
Consolidation Test (Undisturbed Sample)	ASTM D2435	Non-Accredited
Density and Unit Weight of Soil	ASTM D7263	Non-Accredited
Organic Matter	ASTM 2974	PAB Accredited
Unconfined Compression Test (Soil)	ASTM D2166	Non-Accredited
Unconfined Compression Test (Rock)	ASTM D7012	Non-Accredited
Tri - Axial (UU)	ASTM D2850	Non-Accredited
Direct Shear	ASTM D3080	Non-Accredited

B. Concrete

SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
Compressive Strength of Concrete Cylinder	ASTM C39	PAB Accredited
Extraction of Cores from Hardened Concrete	ASTM C42	PAB Accredited
Compressive Strength of Core Samples	ASTM C42	PAB Accredited
Compressive Strength of Cubes (Mortar)	ASTM C109	PAB Accredited
Compressive Strength of Cubes (Epoxy)	ASTM C579	Non-Accredited
Shear Strength Test of Epoxy Resin	ASTM C882	Non-Accredited
Cold Crushing Strength of Bricks	ASTM C133	Non-Accredited
Compressive Strength of Concrete Hollow Blocks	ASTM C140	PAB Accredited
Flexural Strength of Beam	ASTM C78	PAB Accredited

C. Cement and Fly Ash

1. Cement

	SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
PHYSICAL REQUIREMENTS	Autoclave Expansion	ASTM C151	PAB Accredited
	Normal Consistency	ASTM C187	PAB Accredited
	Time of Setting	ASTM C191	PAB Accredited
	Air Content of Mortar	ASTM C185	PAB Accredited

	Compressive Strength	ASTM C109	PAB Accredited
	Density of Cement (Blended Type)	ASTM C188	PAB Accredited
	Fineness of Cement	ASTM C204	PAB Accredited
CHEMICAL REQUIREMENTS	Silicon Dioxide (SiO ₂)	ASTM C114	PAB Accredited
	Aluminium Oxide (Al ₂ O ₃)	ASTM C114	PAB Accredited
	Iron (III) Oxide (Fe ₂ O ₃)	ASTM C114	PAB Accredited
	Calcium Oxide (CaO)	ASTM C114	PAB Accredited
	Magnesium Oxide (MgO)	ASTM C114	PAB Accredited
	Sulfur Trioxide (SO ₃)	ASTM C114	PAB Accredited
	Loss on Ignition (LOI)	ASTM C114	PAB Accredited
	Insoluble Residue (IR)	ASTM C114	PAB Accredited
	Tricalcium Silicate (C ₃ S)	ASTM C114	Non-Accredited
	Dicalcium Silicate (C ₂ S)	ASTM C114	Non-Accredited
	Tricalcium Aluminate (C ₃ A)	ASTM C114	Non-Accredited
	Tetracalcium Aluminoferrite (C ₄ AF)	ASTM C114	Non-Accredited

2. Fly Ash

	SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
PHYSICAL REQUIREMENTS	Fineness using #325 Sieve	ASTM C311	PAB Accredited
	Autoclave Expansion	ASTM C311	PAB Accredited
	Density Of Fly Ash	ASTM C311	PAB Accredited
	Water Demand Ratio	ASTM C311	PAB Accredited
	Strength Activity Index	ASTM C311	PAB Accredited
CHEMICAL REQUIREMENTS	Silicon Dioxide (SiO ₂)	ASTM C311	PAB Accredited
	Aluminium Oxide (Al ₂ O ₃)	ASTM C311	PAB Accredited
	Iron (III) Oxide (Fe ₂ O ₃)	ASTM C311	PAB Accredited
	Sulfur Trioxide (SO ₃)	ASTM C311	PAB Accredited
	Moisture Content	ASTM C311	PAB Accredited
	Loss on Ignition	ASTM C311	PAB Accredited

D. Chemical Test of Water

SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
Ph	Digital pH Meter	Non-Accredited
Sulfate	Hach Method	Non-Accredited
Chloride	Hach Method	Non-Accredited

E. Chemical Test of Low Steel

SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
Chemical Analysis of Low Alloy Steel (Carbon, Silicon, Manganese, Phosphorus, Sulfur, Copper, Chromium, Nickel, Molybdenum)	ASTM E415	PAB Accredited

F. Paints

SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
Viscosity	ASTM D562	Non-Accredited
Fineness of Grind	ASTM D1210	Non-Accredited

G. Asphalt

SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
Ductility	ASTM D113	Non-Accredited
Penetration of Bituminous Materials	ASTM D5	Non-Accredited

H. Admixture and Curing Compound

1. Admixture

SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
pH	ASTM C494	Non-Accredited
Total Solids	ASTM C494	Non-Accredited
Specific Gravity	ASTM C494	Non-Accredited

2. Curing Compound

SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
Water Retention	ASTM C156	Non-Accredited
Drying Time	ASTM C309	Non-Accredited
Volatile Content	ASTM D2369	Non-Accredited
Density	ASTM D1475	Non-Accredited

I. Aggregates

SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
Complete Quality Test on Coarse and Fine Aggregates	ASTM C33	PAB Accredited
Sieve Analysis / Grading	ASTM C136 / D422	PAB Accredited
Materials Finer than # 200 Sieve	ASTM C117	PAB Accredited
Abrasion Loss	ASTM C131 / C535	PAB Accredited
Clay Lumps & Friable Particles	ASTM C142	PAB Accredited
Specific Gravity / Absorption of Fine Aggregates	ASTM C128	PAB Accredited
Specific Gravity / Absorption of Coarse Aggregates	ASTM C127	PAB Accredited
Unit Weight	ASTM C29	PAB Accredited
Sand Equivalent	ASTM DC39	PAB Accredited
Organic Impurities	ASTM C40	PAB Accredited
Fineness Modulus	ASTM C136	PAB Accredited
Moisture Content	ASTM C566	PAB Accredited
Maximum Density Index	ASTM D4253	PAB Accredited
Minimum and Relative Density Index	ASTM D4254	PAB Accredited
Field Density Test using Sand Cone	ASTM D1556	PAB Accredited
Field Density Test using Sand Cone w/ Speedy Moisture Tester	ASTM D4944	PAB Accredited
Laboratory Compaction (Modified)	ASTM D1557	PAB Accredited
Laboratory Compaction (Standard)	ASTM D698	PAB Accredited
Laboratory CBR (California Bearing Ratio)	ASTM D1883	PAB Accredited
Soundness (Sodium)	ASTM C88	PAB Accredited
Soundness (Magnesium)	ASTM C88	PAB Accredited
Specific Gravity/Absorption	ASTM D6473	Non-Accredited
Flakiness Index	BS 812-105.1	Non-Accredited
Flat & Elongated	ASTM D4791	Non-Accredited
Fractured Face	ASTM D5821	Non-Accredited
Particles Exhibiting Distress	ASTM C88	PAB Accredited
Lightweight	ASTM C123	Non-Accredited

J. Reinforcing Steel Bars and Other Metals

SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
Reinforcement Steel Bar of RSB (Tension Test, Bending, Deformations)	PNS 49:2020 / ASTM A370	PAB Accredited
Plain Round Bar	ASTM A370	PAB Accredited
Plates	ASTM A370	PAB Accredited
Pipes	ASTM A370	PAB Accredited
Tendon Wire	ASTM A1061	PAB Accredited
Coupler	ASTM A370	Non-Accredited
Guy Wire	ASTM A370	PAB Accredited

K. Pneumatic Tires

SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
Pneumatic Tire Samples conforming to the requirements of PNS 25: 1994	PNS 25: 1994	PAB Accredited

L. Other Type of Construction Materials

SAMPLE/TEST DESCRIPTION	TEST METHOD	ACCREDITATION
Rebound Hammer	ASTM C805	PAB Accredited
Plate Load	ASTM D1196	PAB Accredited
Rebar Locator	-	Non-Accredited
Zinc Coating Thickness Determination	ASTM B499	Non-Accredited
Weight of Zinc Coating	ASTM A90	Non-Accredited
Sonnenbrand	BS EN 13383-2:2013 (E)	Non-Accredited