



**Fee Schedule – 2009**

Tests	Designation	Unit Price (\$)
<b>Hardened Concrete, Mortar, Grout, Shotcrete, Stucco</b>		
Air void analyses (ASTM, AASHTO, & PA-DOT Method 623)	ASTM C 457	400
Alkali-Carbonate Reactivity – Length Change of Concrete	ASTM C 1105	750
Alkali-Carbonate Reactivity – Petrography, Chemical, & XRD	ASTM C 856	1250
Alkali-Silica Reactivity – Detailed Petrography	ASTM C 856	750
Alkali-Silica Reactivity – Length Change of Concrete	ASTM C 1293	750
Alkali-Silica Reactivity - Mortar-Bar Method	ASTM C 227	750
Alkali-Silica Reactivity - Mortar-Bar Method	ASTM C 1260	750
Cement Content	ASTM C 1084	750
Chloride Analyses – Acid-soluble	ASTM C 1152	100 - 125
Chloride Analyses – Water-soluble	ASTM C 1218	125 - 150
Density, Absorption, Voids	ASTM C 642	200
Length Change	ASTM C 157	250 - 500
Mortar Analyses - Petrography	ASTM C1324	750
Mortar Analyses - Petrography & Chemical	ASTM C1324	1250
Petrographic Examination	ASTM C 856	750
Petrographic Examination + SEM	ASTM C 856	1500
Resistance to Chloride Penetration	ASTM C 1202	350
Scaling Resistance	ASTM C 672	500
Strength - Compressive	ASTM C 39/42	110
Strength – Compressive, Mortar cubes	ASTM C 109	100
Strength - Flexural (center-point loading)	ASTM C 293	110
Strength - Flexural (third-point loading)	ASTM C 78	110
Strength - Splitting Tensile	ASTM C 880	110
Sulfate Analyses (gravimetric)	ASTM C114	150
<b>Pozzolanic and Cementitious Material</b>		
Blaine Fineness – Turbidimeter, Air permeability	ASTM C 115, C 204	200
Chemical Analyses of Hydraulic Cement - Oxides, LOI, Alkali, Compounds	ASTM C 114	500
Time of Setting	ASTM C 191, C 266	350
Autoclave Expansion	ASTM C 151	350

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Cube Compressive Strength (@1, 3, 7, and 28 days)	ASTM C 109/C 109M	500
Complete Testing of Portland Cement for conformance to ASTM C 150	ASTM C 150	1500
Specification of fly ash and natural pozzolan	ASTM C 618	Similar to cement
Specification of slag	ASTM C 989	Similar to cement
X-ray diffraction (Qualitative)	-	275
X-ray diffraction (Quantitative)	-	500
<b>Aggregate</b>		
Alkali-Carbonate Reactivity – Rock Cylinder Method	ASTM C 586	750
Alkali-Carbonate Reactivity – Rock Cylinder Method plus Petrography	ASTM C 586+C 295	1250
Alkali-Silica Reactivity – Chemical Method	ASTM C 289	1000
Petrographic Examination - Crushed stone	ASTM C 295	1000
Petrographic Examination - Gravel	ASTM C 295	1500
Petrographic Examination - Slag	ASTM C 295	1500
Petrographic Examination - Sand	ASTM C 295	1250
Sieve Analyses	ASTM C 136	100
Specific Gravity & Absorption of Coarse Aggregates	ASTM C 127	150
Specific Gravity & Absorption of Fine Aggregate	ASTM C 128	150
Sulfate Soundness	ASTM C 88	350
<b>Dimension Stone</b>		
Abrasion Resistance; A set of 3 samples	ASTM C 241	750
Absorption; A set of 3 samples	ASTM C 97	110 × 3
Petrographic Examination; representative samples	ASTM C 295	750
Strength – Compressive; A set of 20 samples	ASTM C 170	85 × 20
Strength – Flexural; A set of 20 samples	ASTM C 880	100 × 20
Strength - Modulus of Rupture; A set of 20 samples	ASTM C 99	100 × 20
<b>Brick, Terra Cotta, Structural Clay Tile</b>		
Absorption, Saturation coefficient; A set of 5 half bricks or 5 tiles	ASTM C 67	110 × 5
Efflorescence; A set of 10 full bricks	ASTM C 67	50 × 10
Initial Rate of Absorption; A set of 5 whole bricks	ASTM C 67	50 × 5
Modulus of Rupture; A set of 5 whole dry full-size bricks	ASTM C 67	110 × 5
Petrographic Examination – representative samples	ASTM C 856	500
Strength – Compressive; A set of 5 dry half bricks or 5 dry full tiles	ASTM C 67	85 × 5
<b>Masonry</b>		
Brick-mortar masonry sample - Petrography	ASTM C 856	1000
Clay Masonry Unit – Physical Tests & Petrography	ASTM C 67, C 856	See Above
Concrete Masonry Unit – Physical Tests & Petrography	ASTM C 67, C 856	See Above

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Compressive Strength of Concrete Masonry Unit (Block)	ASTM C 140	85
Mortar for Unit Masonry – Compressive Strength	ASTM C 109	85
Mortar for Unit Masonry – Petrography & Chemical Analysis	ASTM C 1324	1250
Masonry Efflorescence – Detection by Oil Immersion, XRD, SEM	ASTM C 856	500 – 750
Special Tests (e.g. detection of surface sealer, water tightness)	Chemical, FTIR	1000 – 1500
Stone Masonry Unit – Physical Tests & Petrography	ASTM C 67, C 856	See Above
<b>Ceramic Tile &amp; Other Floor Covering</b>		
Mohs Hardness – A set of 5 samples	-	100
Moisture Expansion – A set of 5 samples	ASTM C 370	750
Investigation of Debonding, Discoloration, Cracking, etc.	ASTM C 856	1250
<b>Gypsum &amp; Lime Products - Mortar, Grout, Plaster, Drywall, Stucco; Paint &amp; other Coating Analyses</b>		
Chemical Analyses – Wet Chemical, XRF, IR	Variable	Variable
Materials Evaluation by Petrographic Examination	ASTM C 856	750-1000
Other Tests	-	Test-specific
<b>Precast, Prestressed Concrete Products, Concrete/Mortar Pipe, Architectural Cast Stone</b>		
Absorption	ASTM C 1195	110
Chloride Analysis	ASTM C 1152	125
Compressive Strength	ASTM C 1194	110
Petrographic examination	ASTM C 856	750
<b>Field Tests &amp; Reconnaissance (Optional)</b>		
Condition survey and selection of core locations	ACI 201	Hourly rate
<b>Specialty Tests</b>		
Accelerated weathering	-	750
Materials Identification by SEM-EDS	-	1500
Materials Identification by XRD	-	275 - 500
Petrographic examinations and XRD of fill materials	-	1000
Project-specific specialty tests	-	Variable
<b>Staff Charges &amp; Other Expenses</b>		
Principal – Deposition & Trail	-	350/hr
Principal – Field Investigation, Travel	-	175/hr
Principal – Air Travel Time	-	Minimum 500/day
Principal – Document review for expert testimony	-	175/hr
Senior Consultant – Field Investigation	-	125/hr
Technician – Field Investigation & Travel	-	100/hr
Secretarial	-	100/hr
Auto Mileage	-	\$1/mile

Tests	Designation	Unit Price (\$)
Miscellaneous Charges (e.g., Airfare)	-	At cost plus 10%
Imaging	-	\$10/image
Freight	-	Variable
Additional Report (1 Hard Copy + CD) & Data Interpretation	-	500

*Price subjected to change without notice.*

*Updated January 2009*