

**BOWSER-MORNER, INC. - CONSTRUCTION MATERIALS LABORATORY**  
**2011 Laboratory Testing Fees - Stone and Masonry**  
**AASHTO/ISO 17025 ACCREDITED • AASHTO R 18 ACCREDITED • USACE VALIDATED**



**Miscellaneous Fees**

Sampling - Time	\$60.00/Hour
Sampling - Mileage	\$0.60/Mile
Consultation, Senior Geologist/Engineer	\$125.00/Hour

**Concrete Masonry Units (Block) ASTM C 55 & C 90**

1. Compressive Strength and Absorption (C 140)	\$270.00/set of 6
2. Linear Shrinkage (C 426)	\$530.00/set of 3
3. Fire Rating; NCMA & UL 618; Equivalent Thickness	
a. with strength & absorption (additional)	\$100.00/set of 3
b. without strength & absorption	\$240.00/set of 3
4. Prisms (C 1314)	
a. 2-High	\$250.00/set of 3
b. 3-High	\$310.00/set of 3
c. Filled Cores, Additional	\$110.00/set of 3
5. Bond Strength (C 952)	\$400.00/set of 3
6. Freeze Thaw (C1262)	\$1200.00/set of 5
7. Stain Test (C 641)	\$250.00 each

**Concrete Retaining Wall Units ASTM C 1372**

8. Compressive Strength and Absorption (C 140)	\$270.00/set of 6
9. Freeze-Thaw Durability (C 1262)	\$1200.00/set of 3

**Concrete Paving Units ASTM C 936**

10. Compressive Strength and Absorption (C 140)	\$260.00/set of 6
11. Freeze-Thaw Durability (C 1645)	\$1200.00/set of 3
12. Abrasion Resistance (C 418)	\$1000.00/set of 3

**Clay Masonry Units (Brick) ASTM C 216**

13. Compressive Strength (C 67)	\$250.00/set of 5
14. Absorption & Saturation Coefficient (C 67)	\$250.00/set of 5
15. Modulus of Rupture; Flexure (C 67)	\$260.00/set of 5
16. Initial Rate of Absorption; Suction (C 67)	\$80.00/set of 5
17. Efflorescence (C 67)	\$80.00/set of 5
18. Freeze Thaw (C 67)	\$2100.00/set of 5
19. Bond Strength (C 952)	\$300.00/ set of 3

**Masonry Grout Prisms**

20. Compressive Strength (C 1019)	\$22.00 each
-----------------------------------	--------------

**Cement Mortar**

21. Mortar Mix Design - Includes gradation of sand, strength cubes and water retention	\$850.00 each
22. Time of Set, Vicat (C 191)	\$150.00 each
23. Mortar Cube Compressive Strength (C 109)	\$30.00 each
24. Drying Shrinkage (C 596)	\$600.00/set
25. Expansion (C 1038)	\$600.00/set

**Architectural Cast Stone ASTM C 1364**

26. Absorption & Bulk Density (C 1195)	\$150.00/set
27. Compressive Strength (C 1194)	\$150.00/set
28. Freeze Thaw (C 1364 sec. 5.4/ C 666 A)	\$2400.00/set

**Dimension Stone (ASTM spec designations detailed below)**

29. Absorption & Density (C 97)	\$50.00 each
30. Modulus of Rupture (C 99)	\$70.00 each
31. Compressive Strength (C 170)	\$70.00 each
32. Abrasion Resistance (C 241)	\$500.00 each
33. Flexural Strength (C 880)	\$70.00 each
34. Flexural Modulus of Elasticity (C 1352)	\$70.00 each
35. Petrographic Examination (C 1721)	\$1500.00 each

*Note: Dimension stone testing is usually performed in sets of 3 or 5 depending on the test parameter. In addition, some tests are performed wet, dry, parallel, to the rift, and/or perpendicular to the rift.*

*ASTM Standard Specifications for Dimension Stone:*

C 503	Marble Dimension Stone
C 568	Limestone Dimension Stone
C 615	Granite Dimension Stone
C 616	Quartz-Based Dimension Stone
C 629	Slate Dimension Stone
C 1526	Serpentine Dimension Stone
C 1527	Travertine Dimension Stone

*Please contact us for a complete listing of number of test specimens and dimensions required for the above testing*

<b>Mailing Address:</b>	<b>Shipping Address:</b>	<b>Contact Person:</b>	<b>Alternate Contacts:</b>	
Bowser-Morner, Inc. P.O. Box 51 Dayton, Ohio 45401-0051 Attn: Department 21 2/11/2011	Bowser-Morner, Inc. 4518 Taylorsville Road Dayton, Ohio 45424 Attn: Department 21	Bob Kushmaul, Section Supervisor Concrete & Masonry Section 937-236-8805, ext. 229 rkushmaul@bowser-morner.com	James W. Fletcher, Vice President Director of Laboratory Services 937-236-8805, ext. 235 jfletcher@bowser-morner.com	Karl A. Fletcher Assistant Lab Manager 937-236-8805, ext. 322 kfletcher@bowser-morner.com