

Appendix A References

A-1. Required Publications

¹**ER 1180-1-6**
Construction Quality Management

¹**EM 385-1-1**
Safety and Health Requirements Manual

¹**EM 1110-2-2000**
Standard Practice for Concrete

¹**CW-03361**
Shotcrete

²**US Army Engineer Waterways Experiment Station 1949**
US Army Engineer Waterways Experiment Station. 1949. *Handbook for Concrete and Cement*, with quarterly supplements (all CRD-C designations), US Army Engineer Waterways Experiment Station, Vicksburg, MS.

³**American Concrete Institute 1991a**
American Concrete Institute. 1991a. "Chemical Admixtures for Concrete," ACI Report No. 212.3R-89, *ACI Manual of Concrete Practice*, Part 2, Detroit, MI.

³**American Concrete Institute 1991b**
American Concrete Institute. 1991b. "Guide for Measuring, Mixing, Transporting, and Placing Concrete," ACI Report 304R-89, *ACI Manual of Concrete Practice*, Part 2, Detroit, MI.

¹Reference published by Department of the Army and available through USACE Command Information Management Office sources.

²All Corps of Engineers publications are available on interlibrary loan from the Research Library, US Army Engineer Waterways Experiment Station, ATTN: CEWES-IM-MI-R, 3909 Halls Ferry Road, Vicksburg, MS 39180-6199.

³Reference available through American Concrete Institute, PO Box 19150, Detroit, MI 48219.

⁴Reference available through American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

³**American Concrete Institute 1991c**
American Concrete Institute. 1991c. "Standard Practice for Curing Concrete," ACI Report No. 308R-86, *ACI Manual of Concrete Practice*, Part 2, Detroit, MI.

³**American Concrete Institute 1991d**
American Concrete Institute. 1991d. "Guide to Shotcrete," ACI Report No. 506R-90, *ACI Manual of Concrete Practice*, Part 5, Detroit, MI.

³**American Concrete Institute 1991e**
American Concrete Institute. 1991e. "State-of-the-Art Report on Fiber Reinforced Shotcrete," ACI Report No. 506.1R-84, (Reapproved 1989), *ACI Manual of Concrete Practice*, Part 5, Detroit, MI.

American Society for Testing and Materials

⁴**ASTM C 33 (CRD-C 133)**
Standard Specification for Concrete Aggregates

⁴**ASTM C 42 (CRD-C 27)**
Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete

⁴**ASTM C 94 (CRD-C 31)**
Standard Specification for Ready-Mixed Concrete

⁴**ASTM C 136 (CRD-C 103)**
Standard Method for Sieve Analysis of Fine and Coarse Aggregates

⁴**ASTM C 150 (CRD-C 201)**
Standard Specification for Portland Cement

⁴**ASTM C 231 (CRD-C 41)**
Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method

⁴**ASTM C 494 (CRD-C 87)**
Standard Specification for Chemical Admixtures for Concrete

⁴**ASTM C 597 (CRD-C 51)**
Standard Test Method for Pulse Velocity Through Concrete

⁴**ASTM C 618 (CRD-C 255)**
Standard Specification for Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Portland Cement Concrete

⁴**ASTM C 685 (CRD-C 98)**

Standard Specification for Concrete Made by Volumetric Batching and Continuous Mixing

⁴**ASTM C 803 (CRD-C 59)**

Standard Test Method for Penetration Resistance of Hardened Concrete

⁴**ASTM C 805 (CRD-C 22)**

Standard Test Method for Rebound Number of Hardened Concrete

⁴**ASTM C 900 (CRD-C 78)**

Standard Test Method for Pullout Strength of Hardened Concrete

⁴**ASTM C 1018 (CRD-C 65)**

Standard Test Method for Flexural Toughness and First-Crack Strength of Fiber-Reinforced Concrete (Using Beam With Third-Point Loading)

⁴**ASTM C 1141 (CRD-C 625)**

Standard Specification for Admixture for Shotcrete

A-2. Related Publications

³**American Concrete Institute 1974**

American Concrete Institute. 1974. "Use of Shotcrete for Underground Structural Support," Publication SP-45, Detroit, MI.

³**American Concrete Institute 1980**

American Concrete Institute. 1980. "Performance of Concrete in Marine Environment," Publication SP-65, Detroit, MI.

³**American Concrete Institute 1981a**

American Concrete Institute. 1981a. "Shotcrete Applications," *Concrete International: Design and Construction*, Vol 3, No. 1, pp 23-109, Detroit, MI.

³**American Concrete Institute 1981b**

American Concrete Institute. 1981b. "Application and Use of Shotcrete," Compilation No. 6, Detroit, MI.

³**American Concrete Institute 1991a**

American Concrete Institute. 1991a. "Specifications for Structural Concrete for Buildings," ACI Report No. 301R-89, *ACI Manual of Concrete Practice*, Part 3, Detroit, MI.

³**American Concrete Institute 1991b**

American Concrete Institute. 1991b. "Standard Specification for Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive," ACI Report No. 503.2-79 (Revised 1986), *ACI Manual of Concrete Practice*, Part 5, Detroit, MI.

³**American Concrete Institute 1991c**

American Concrete Institute. 1991c. "Specification for Materials, Proportioning, and Application of Shotcrete," ACI Report No. 506.2-90 (Revisions), Copyright 1972, 1982, *ACI Manual of Concrete Practice*, Part 5, Detroit, MI.

³**American Concrete Institute 1991d**

American Concrete Institute. 1991d. "Guide to Certification of Shotcrete Nozzlemen," ACI Report No. 506.3-82, *ACI Manual of Concrete Practice*, Part 5, Detroit, MI.

⁴**American Society for Testing and Materials 1978**

American Society for Testing and Materials. 1978. "Significance of Tests and Properties of Concrete and Concrete-Making Materials," ASTM STP 169B, Philadelphia, PA.

⁴**American Society for Testing and Materials 1992**

American Society for Testing and Materials. 1992. "Standard Specification for Epoxy-Resin-Basin Bonding Systems for Concrete," "Designation C-881-90, 1992 *Annual Book of ASTM Standards*, Philadelphia, PA; also published as CRD-C 595, *Handbook for Concrete and Cement* (with quarterly supplements), US Army Engineer Waterways Experiment Station, Vicksburg, MS.

²**Brekke, Einstein, and Mason 1976**

Brekke, T. L., Einstein, H. H., and Mason, R. E. 1976 (Jun). "State-of-the-Art Review of Shotcrete," Contract Report S-76-4, US Army Engineer Waterways Experiment Station, Vicksburg, MS.

³**Crom 1966**

Crom, T. R. 1966. "Dry-Mix Shotcrete Practice," *Shotcreting*, SP-14, pp 15-32, American Concrete Institute, Detroit, MI.

³**Crom 1981**

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³**Fredricks, Saunders, and Broadfoot 1966**

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³**Gopalaratnam, Shah, Batson, Criswell, Ramakrishnan, and Wecharatana 1991**

Gopalaratnam, V. S., Shah, S. P., Batson, G. B., Criswell, M. E., Ramakrishnan, V., and Wecharatana, M. 1991 (Jul-Aug). "Fracture Toughness of Fiber Reinforced Concrete," *ACI Materials Journal*, pp 339-353, American Concrete Institute, Detroit, MI.

³**Hoffmeyer 1966**

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⁵**Krantz 1984**

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⁴**Luther 1989**

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⁵**Mahar, Parker, and Wuellner 1975**

Mahar, J. W., Parker, H. W., and Wuellner, W. W. 1975 (Aug). "Shotcrete Practice in Underground Construction," Report No. FRA-OR&D 75-90, US Department of Transportation, Washington, DC.

²**McDonald 1991**

McDonald, James E. 1991 (Mar). "Properties of Silica Fume Concrete," Technical Report REMR-CS-32, US Army Engineer Waterways Experiment Station, Vicksburg, MS.

³**Morgan 1988**

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Morgan, D. R., McAskill, N., Richardson, B. W., and Zellers, R. C. 1989. "A Comparative Evaluation of Plain, Polypropylene Fiber, Steel Fiber and Wire Mesh Reinforced Shotcretes," Transportation Research Record, No. 1226, Concrete and Concrete Construction, Transportation Research Board, National Research Council, Washington DC, pp 78-87.

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³**Rutenbeck 1974**

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⁶**Ryan 1973**

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⁵Reference available from National Technical Information Service, Springfield, VA 22151.

⁶Reference available from 11 Grosvenor Crescent, London, SW1X, 7EE, England.