

# Guide to Mass Concrete

Reported by ACI Committee 207

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*Mass concrete is any volume of concrete with dimensions large enough to require that measures be taken to cope with the generation of heat from hydration of the cement and attendant volume change to minimize cracking. The design of mass concrete structures is generally based on durability, economy, and thermal action, with strength often being a secondary concern. This document contains a history of the development of mass concrete practice and discussion of materials and concrete mixture proportioning, properties, construction methods, and equipment. It covers traditionally placed and consolidated mass concrete and does not cover roller-compacted concrete.*

**Keywords:** admixture; aggregate; air entrainment; batch; cement; compressive strength; cracking; creep; curing; durability; fly ash; formwork; grading; heat of hydration; mass concrete; mixing; mixture proportion; modulus of elasticity; placing; Poisson's ratio; pozzolan; shrinkage; strain; stress; temperature rise; thermal expansion; vibration; volume change.

## CONTENTS

### Chapter 1—Introduction and historical developments, p. 207.1R-2

- 1.1—Scope
- 1.2—History
- 1.3—Temperature control
- 1.4—Long-term strength design

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### Chapter 2—Materials and mixture proportioning, p. 207.1R-5

- 2.1—General
- 2.2—Cements
- 2.3—Pozzolans and ground slag
- 2.4—Chemical admixtures
- 2.5—Aggregates
- 2.6—Water
- 2.7—Selection of proportions
- 2.8—Temperature control

### Chapter 3—Properties, p. 207.1R-12

- 3.1—General
- 3.2—Strength
- 3.3—Elastic properties
- 3.4—Creep
- 3.5—Volume change
- 3.6—Permeability
- 3.7—Thermal properties
- 3.8—Shear properties
- 3.9—Durability

### Chapter 4—Construction, p. 207.1R-19

- 4.1—Batching
- 4.2—Mixing
- 4.3—Placing
- 4.4—Curing
- 4.5—Forms
- 4.6—Height of lifts and time intervals between lifts
- 4.7—Cooling and temperature control
- 4.8—Instrumentation
- 4.9—Grouting contraction joints

ACI 207.1R-05 supersedes ACI 207.1R-96 and became effective December 1, 2005.

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**M Woodhall**



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## **Table of Contents Manual On Mass Concrete Aci 207**

1. Understanding the eBook Manual On Mass Concrete Aci 207
  - The Rise of Digital Reading Manual On Mass Concrete Aci 207
  - Advantages of eBooks Over Traditional Books
2. Identifying Manual On Mass Concrete Aci 207
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Manual On Mass Concrete Aci 207
  - User-Friendly Interface
4. Exploring eBook Recommendations from Manual On Mass Concrete Aci 207
  - Personalized Recommendations
  - Manual On Mass Concrete Aci 207 User Reviews and Ratings
  - Manual On Mass Concrete Aci 207 and Bestseller Lists
5. Accessing Manual On Mass Concrete Aci 207 Free and Paid eBooks
  - Manual On Mass Concrete Aci 207 Public Domain eBooks
  - Manual On Mass Concrete Aci 207 eBook Subscription Services
  - Manual On Mass Concrete Aci 207 Budget-Friendly Options
6. Navigating Manual On Mass Concrete Aci 207 eBook Formats
  - ePub, PDF, MOBI, and More
  - Manual On Mass Concrete Aci 207 Compatibility with Devices
  - Manual On Mass Concrete Aci 207 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Manual On Mass Concrete Aci 207
  - Highlighting and Note-Taking Manual On Mass Concrete Aci 207
  - Interactive Elements Manual On Mass Concrete Aci 207
8. Staying Engaged with Manual On Mass Concrete Aci 207

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Manual On Mass Concrete Aci 207
- 9. Balancing eBooks and Physical Books Manual On Mass Concrete Aci 207
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Manual On Mass Concrete Aci 207
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Manual On Mass Concrete Aci 207
  - Setting Reading Goals Manual On Mass Concrete Aci 207
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Manual On Mass Concrete Aci 207
  - Fact-Checking eBook Content of Manual On Mass Concrete Aci 207
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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