

### STRENGTH DESIGN FOR MASONRY

This CodeMaster addresses the major structural design requirements of the 2015 International Building Code (IBC) for masonry structures. The standards on which the IBC is based are: TMS 402-16, *Building Code Requirements for Masonry Structures*, and TMS 602-16, *Specification for Masonry Structures*, which are referenced throughout Chapter 21 of the IBC. These had previously been joint publications of The Masonry Society (TMS), American Concrete Institute (ACI), and the American Society of Civil Engineers (ASCE), and were often referred to as the MSJC (Masonry Standards Joint Committee) Code and MSJC Specification. The 2016 edition was solely sponsored by TMS, and the code and specification will be referred to as TMS 402 and TMS 602, respectively, in this CodeMaster. Masonry designed by the strength design method must meet the strength design provisions in IBC Section 2105. This section requires strength design to comply with the seismic requirements of IBC Section 2105 and Chapters 1 through 7 and Chapter 9 of TMS 402 with some modifications. Chapters 1 through 3 of TMS 402 cover General Requirements, Chapters 4 through 7 cover Design Requirements, and Chapter 9 covers Strength Design of Masonry. TMS 402 Chapter 7 covers seismic design. Wherever the legally adopted building code is based on the IBC, the load combinations of IBC Section 1605.2 apply. Reinforcement development length requirements of TMS 402 Section 5.3.3.3 and lap splice requirements of TMS 402 Section 5.3.3.4 are modified by IBC Sections 2106.2 and 2106.3, respectively.

In the strength design method, the required strength resulting from the design load combinations should not exceed design strength. The strength design load combinations or combinations of factored loads are defined in IBC Section 1605.2. Design strength is calculated by multiplying the nominal strength by a strength reduction factor. The strength reduction factor varies from 0.85 to 0.90 depending upon the particular action such as axial force, shear, or flexure or combination of actions under which strength is being considered. Strength reduction factors are identified in TMS 402 Section 5.1.4.

In reinforced masonry, steel reinforcement is added to resist tension. Reinforcement may be located at the center of a wall or close to either face of a wall depending on design requirements. When reinforcement is located at the center or provided near one face of a wall, it is called a singly-reinforced wall. When reinforcement is provided near both faces of a wall, it is called a doubly-reinforced wall.

In a doubly-reinforced wall subject to out-of-plane bending, steel reinforcement can only be considered to resist compression if lateral reinforcement in compliance with TMS 402 Section 5.3.1.4 is provided (see TMS 402 Section 5.3.2). In masonry walls, the reinforcement is typically placed in the center of the wall.

### STEP 1

### SELECT MATERIAL TO BE USED

In reinforced masonry, selection needs to be made of four materials: masonry units, mortar, grout, and reinforcement.

1. **Masonry Units.** Masonry units need to comply with TMS 602 Article 2.3 per IBC Section 2105.1. Generally, two types of masonry units are used. They are as follows:
  - a. Hollow brick masonry units conforming to ASTM C562.
  - b. Concrete masonry units (CMU) conforming to ASTM C90. Prior to 2012, ASTM C90 required CMU units to have an equivalent web thickness. The current standard is based on a normalized web area. This allows for a variety of units, as shown in Figure 1. The open-end units are easier to lay around reinforcing bars, and can increase thermal resistance of walls by having less thermal shorts.



Double Cell



Open-End  
or A-Block



Double Open-End  
or H-Block

Figure 1 Concrete Masonry Units

2. **Mortar.** All mortar materials need to conform to ASTM C270 and Articles 2.1 and 2.4.A of TMS 602 per IBC Section 2105.2. Generally, the following three types of mortar can be used:

- a. **Type M** – Type M mortar is a high-strength mortar generally used in high-strength masonry, or where durability (such as for retaining walls) is a factor. Type M mortar is permitted in all SOCs.
- b. **Type S** – Type S mortar has lower compressive strength than Type M, but improved workability. Type S mortar is permitted in all SOCs. Type S is a commonly-used mortar in residential masonry.
- c. **Type N** – Type N mortar has lower compressive strength than Type S, but higher workability (due to higher lime content). Its use as part of the seismic force-resisting system is permitted in SOCs A, B, and C only (TMS 402 Section 7.4.4.2.3).

Mortars are specified by proportion specifications (see ASTM C270 Table 1) or property specifications (see ASTM C270 Table 2). Mortar mixed on the jobsite should be specified by proportion.

Mortars can be made from Portland cement/lime, mortar cement, or masonry cement. Masonry cement mortar is prohibited in partially grouted walls that are part of the seismic force-resisting system in SOC D and higher (TMS 402 Section 7.4.4.2.3).

**SECRETS OF THE CODEMASTER:** A good rule of thumb is to use the lowest strength mortar that performs adequately, not the strongest, because workability and serviceability is improved with lower strength mortar.

3. **Grout.** IBC Section 2105.3 requires grout to conform to Article 2.2 of TMS 602. That article requires grout to comply with ASTM C476. ASTM C476 permits grout to be specified by proportion requirements or property requirements, as in the case of mortar. In reinforced masonry, all reinforced cells or cavities need to be completely filled with grout (see TMS 602 Article 3.5.5). Grout must be consolidated (vibrated), and reconsolidated, to completely fill voids and bond to the masonry surfaces as required by TMS 602 Article 3.5.5.E. Acceptable admixtures, as required by TMS 602 Article 2.2.C, may be added for purposes such as increasing the flow of grout or reducing shrinkage.

**SECRETS OF THE CODEMASTER:** For grouting, a high water content resulting in a slump range of 9 to 11 in. is used, as masonry units will absorb water from the grout. After absorption of some water, the water-to-cement ratio is at the appropriate level to allow for normal curing and strength gain.

4. **Reinforcement.** Reinforcing steel is normally deformed bars of Grade 40, 50, or 60 conforming to ASTM A615, ASTM A616, A617, A776, or A796 (see IBC Section 2105.4, which references Article 2.4 of TMS 602). Joint reinforcement is usually steel wire type, small enough in diameter to fit into the horizontal mortar joint and needs to conform to ASTM A951.

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## **Table of Contents Codemaster Package Entire 2012 Ibc Set**

1. Understanding the eBook Codemaster Package Entire 2012 Ibc Set
  - The Rise of Digital Reading Codemaster Package Entire 2012 Ibc Set
  - Advantages of eBooks Over Traditional Books
2. Identifying Codemaster Package Entire 2012 Ibc Set
  - 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 Codemaster Package Entire 2012 Ibc Set
  - User-Friendly Interface
4. Exploring eBook Recommendations from Codemaster Package Entire 2012 Ibc Set
  - Personalized Recommendations
  - Codemaster Package Entire 2012 Ibc Set User Reviews and Ratings
  - Codemaster Package Entire 2012 Ibc Set and Bestseller Lists
5. Accessing Codemaster Package Entire 2012 Ibc Set Free and Paid eBooks
  - Codemaster Package Entire 2012 Ibc Set Public Domain eBooks
  - Codemaster Package Entire 2012 Ibc Set eBook Subscription Services
  - Codemaster Package Entire 2012 Ibc Set Budget-Friendly Options

6. Navigating Codemaster Package Entire 2012 Ibc Set eBook Formats
  - ePub, PDF, MOBI, and More
  - Codemaster Package Entire 2012 Ibc Set Compatibility with Devices
  - Codemaster Package Entire 2012 Ibc Set Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Codemaster Package Entire 2012 Ibc Set
  - Highlighting and Note-Taking Codemaster Package Entire 2012 Ibc Set
  - Interactive Elements Codemaster Package Entire 2012 Ibc Set
8. Staying Engaged with Codemaster Package Entire 2012 Ibc Set
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Codemaster Package Entire 2012 Ibc Set
9. Balancing eBooks and Physical Books Codemaster Package Entire 2012 Ibc Set
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Codemaster Package Entire 2012 Ibc Set
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Codemaster Package Entire 2012 Ibc Set
  - Setting Reading Goals Codemaster Package Entire 2012 Ibc Set
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Codemaster Package Entire 2012 Ibc Set
  - Fact-Checking eBook Content of Codemaster Package Entire 2012 Ibc Set
  - 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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