

**Standard Steel Doors  
and Frames**  
*for*  
**Modular Masonry Construction**



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**STEEL DOOR INSTITUTE**

30200 DETROIT ROAD • CLEVELAND, OHIO 44145

## **Standard Steel Doors and Frames for Modular Masonry Construction**

### **The Module**

#### **Definition:**

The size of any individual part, taken as a unit of measure for regular proportion. A basic unit of measure adopted by the building industry as 4 inches.

#### **Concept:**

The use of a standard modular dimension common to building products such as masonry improves finished buildings and structures in the following ways:

- Increased accuracy, legibility, and simplicity of contract documents.
- Added aesthetic flexibility induced by small unit standardization, allowing freedom of architectural design.
- Increased flexibility of finished structure through lower modification, addition, and renovation costs.
- Reduced overall material and labor costs by facilitating the use of standard practices and definable operating procedures.
- Interchangeability of materials is facilitated by the ability to substitute modular components.
- Estimating and takeoff simplified.
- Detailing and drawing coordination between trades and specialties simplified by small size standard grid.

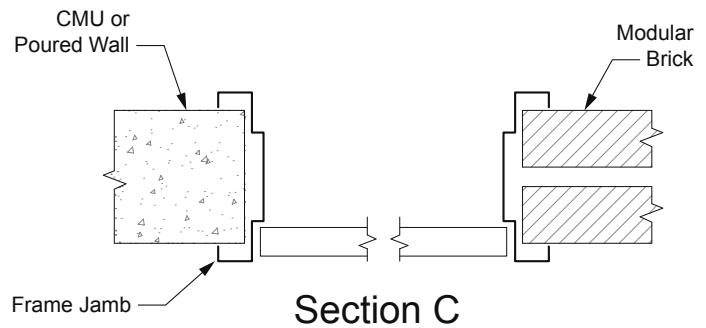
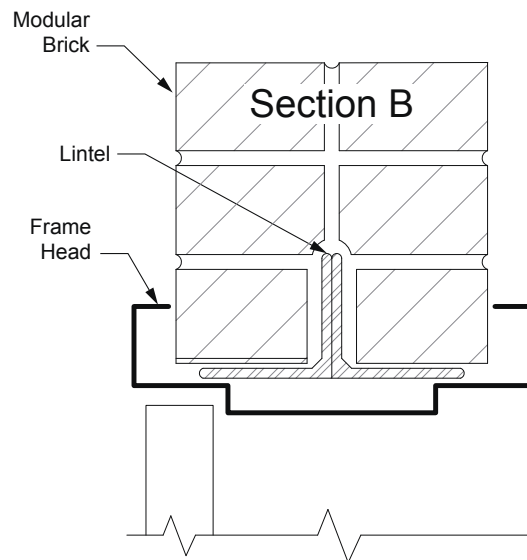
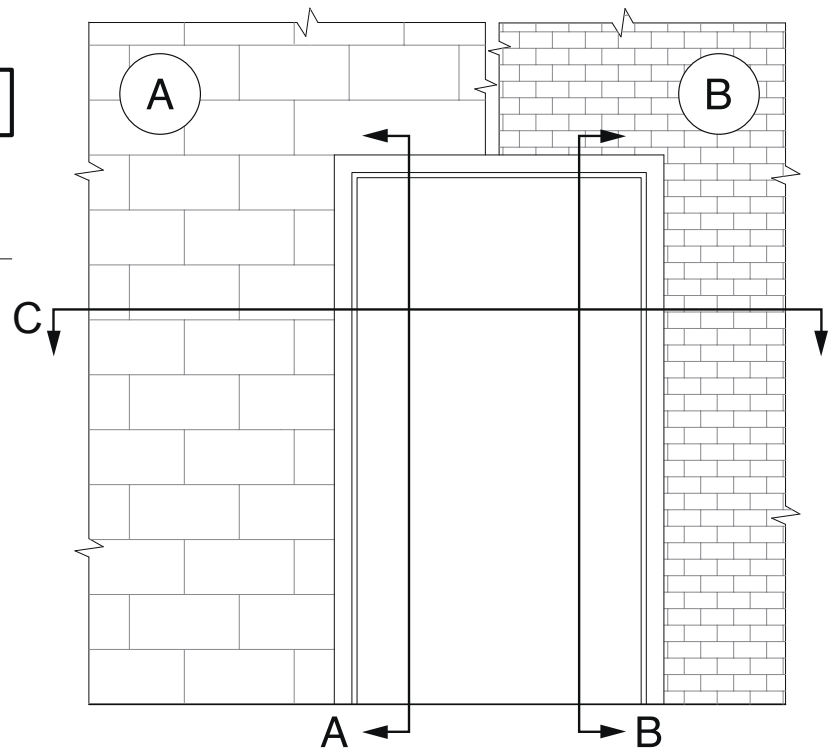
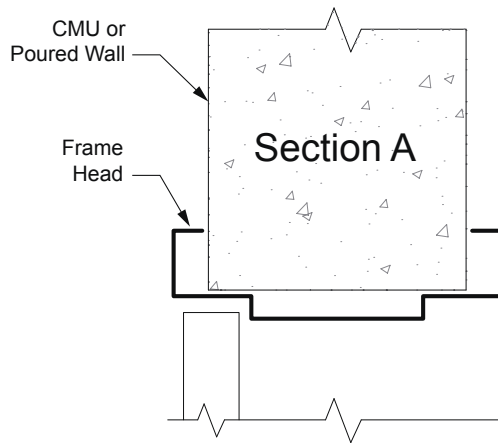
#### **Dimensions:**

Concrete masonry units (CMU) have been standardized to a nominal 8" high and 16" long module.

Modular bricks have been standardized to a nominal  $2\frac{2}{3}$ " high and 8" long module, therefore 6 bricks correspond to the modular size of CMU. This relationship is clearly shown on the following pages.

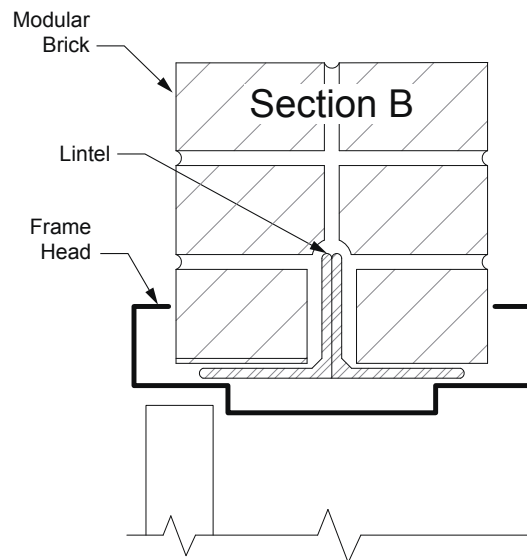
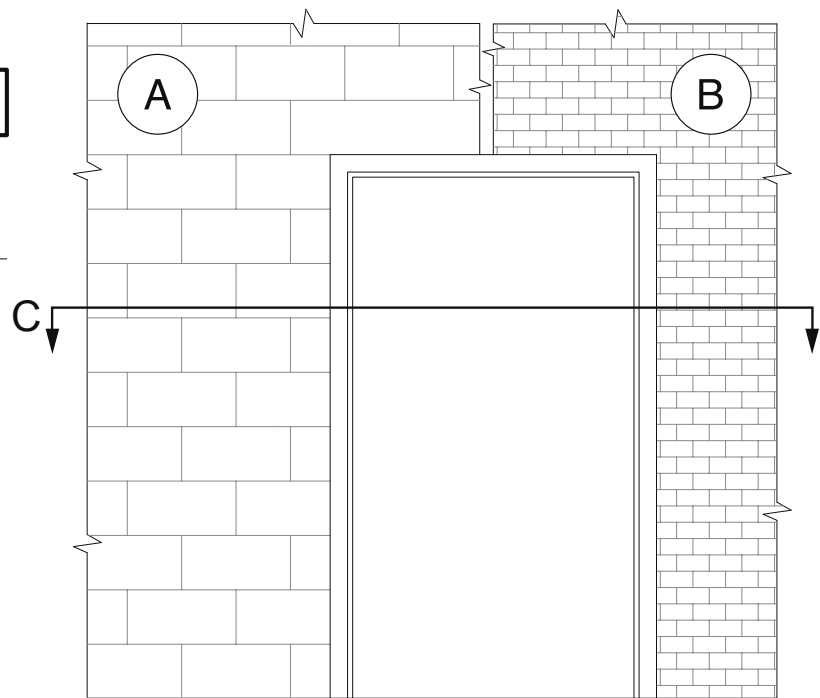
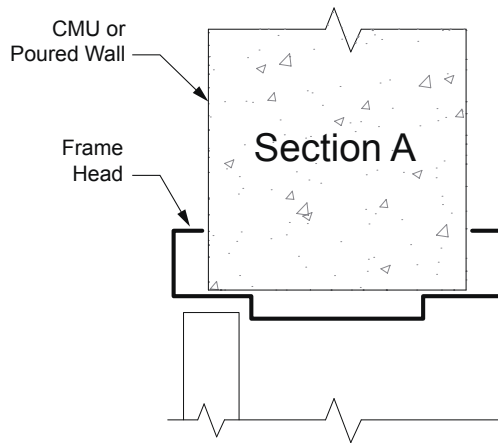
# Wrap Around Frame

6' 8" or 8' 0" Door

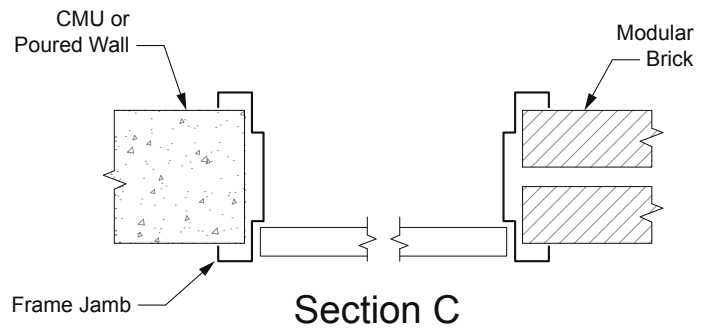


# Wrap Around Frame

## 7' 0" Door

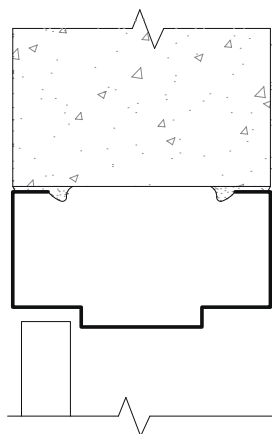
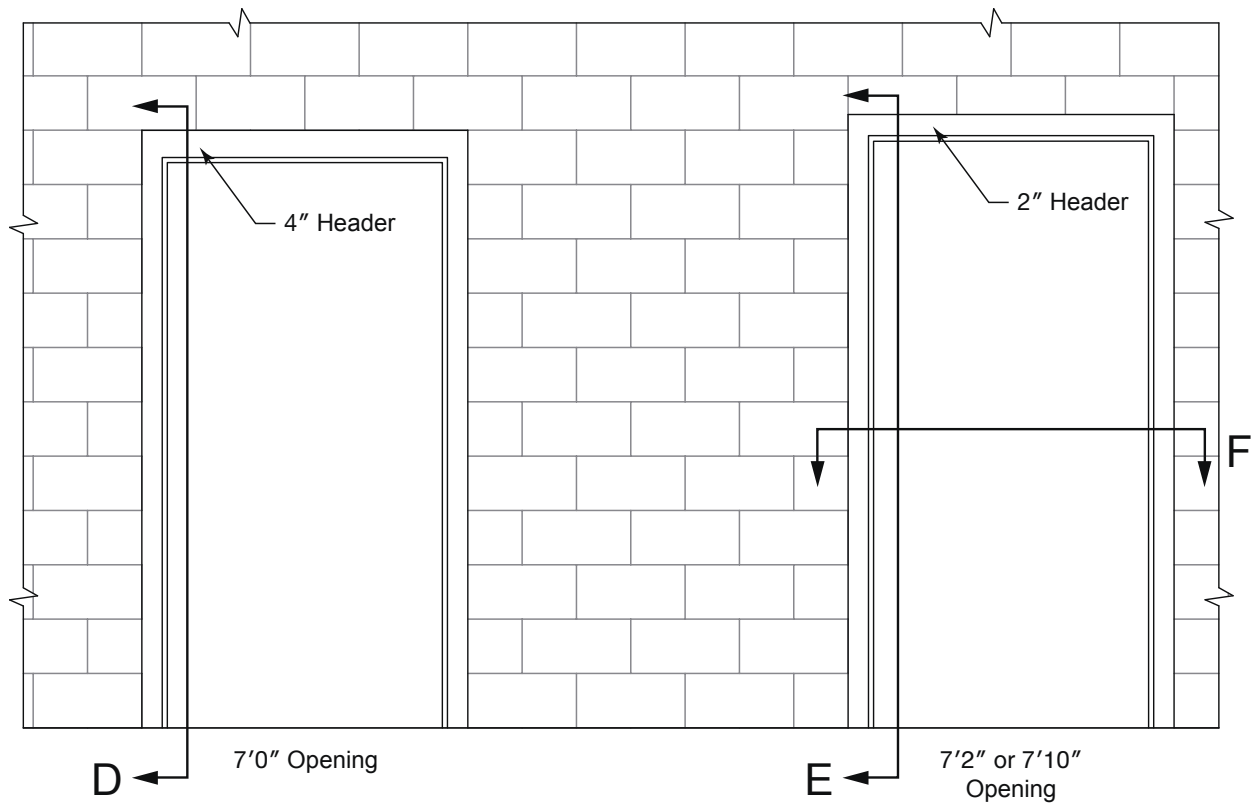


**Note:** A starter course of 4" modular masonry may be used to create alignment of the frame head with the masonry joints.

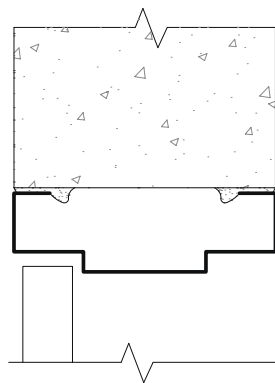


# Butt Type Frame

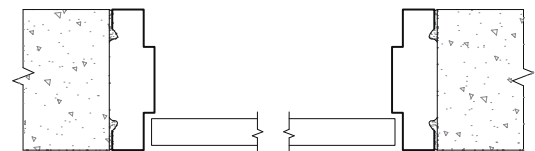
**7' 0" Door with 4" Header or  
7' 2" and 7' 10" Doors with 2" Header**



Section D



Section E



Section F

## AVAILABLE PUBLICATIONS

### Specifications

- ANSI/SDI A250.6** Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames
- ANSI/SDI A250.8** Specifications for Standard Steel Doors and Frames (SDI-100)
- SDI-108** Recommended Selection & Usage Guide for Standard Steel Doors
- SDI-118** Basic Fire Door, Fire Door Frame, Transom/Sidelight Frame, and Window Frame Requirements
- SDI-128** Guidelines for Acoustical Performance of Standard Steel Doors and Frames
- SDI-129** Hinge and Strike Spacing
- SDI-133** Guideline for Specifying Steel Doors & Frames for Blast Resistance
- SDI-136** Guideline for Specifying Windstorm Products

### Test Procedures

- ANSI/SDI A250.3** Test Procedure & Acceptance Criteria for Factory Applied Finish Coatings for Steel Doors and Frames
- ANSI/SDI A250.4** Test Procedure & Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors
- ANSI/SDI A250.10** Test Procedure & Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames
- ANSI/SDI A250.13** Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies for Protection of Building Envelopes (Not applicable for FEMA 320/361 or ICC-500 Shelters)
- SDI-113** Standard Practice for Determining the Steady-State Thermal Transmittance of Steel Door and Frame Assemblies
- SDI-131** Accelerated Physical Endurance Test Procedure for Steel Doors

### Construction Details

- ANSI/SDI A250.11** Recommended Erection Instructions for Steel Frames
- SDI-110** Standard Steel Doors & Frames for Modular Masonry Construction
- SDI-111** Recommended Details for Standard Steel Doors, Frames, Accessories and Related Components
- SDI-122** Installation Troubleshooting Guide for Standard Steel Doors & Frames

### Miscellaneous Documents

- SDI-112** Zinc-Coated (Galvanized/Galvannealed) Standard Steel Doors and Frames
- SDI-117** Manufacturing Tolerances for Standard Steel Doors and Frames
- SDI-124** Maintenance of Standard Steel Doors & Frames
- SDI-127** Industry Alert Series (A-L)
- SDI-130** Electronic Hinge Preparations
- SDI-134** Glossary of Terms for Hollow Metal Doors and Frames
- SDI-135** Guidelines to Measure for Replacement Doors in Existing Frame Openings

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**AN ASSA ABLOY DOOR GROUP COMPANY**  
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(731) 686-8345  
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### **MESKER DOOR**

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## STEEL DOOR INSTITUTE

30200 DETROIT ROAD • CLEVELAND, OHIO 44145  
440.899.0010 • [www.steeldoor.org](http://www.steeldoor.org)