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## **Common Jamb Construction for Rolling Fire Doors: Masonry Construction - Bolted and Welded Guides**

### **Introduction:**

Rolling fire doors are tested by being mounted to a furnace which is in compliance with Underwriters Laboratories requirements. The doors are mounted on the jambs of a masonry wall intended to replicate field construction. The fire door guides must remain securely fastened to the jambs at the end of fire test. This DASMA Technical Data Sheet includes a representation of jamb construction and guide attachment details. Guide configurations and approved jamb construction will vary with individual fire door manufacturer's listings. Consult with individual manufacturers for specific guide details and their approved jamb constructions.

### **Objectives:**

The objectives of preparing the set of standard details are as follows:

1. To show how fire door guide assemblies are located on the jamb for face of wall mounting and between jamb mounting.
2. To provide recommendations for rebar locations in jambs.
3. To help architects, engineers and others involved with building specifications understand the relationship between the rolling steel fire door guides and the jamb/wall design.
4. To help door dealers and distributors know the limitations for welding guide angles to steel jambs.
5. To have the details included in applicable reference documents used by architects, engineers, specifiers and code officials.

### **Special Notations:**

1. UL has approved the welded guide details ONLY AS SHOWN.
2. FM does not allow guides to be welded to steel jambs.

See the following pages for a list of standard jamb construction details.

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## DASMA Recommended

### Standard Jamb Construction:

### Rolling Fire Doors On Masonry Walls

## Bolted and Welded Guides

#### General Notes:

1. Existing and new wall construction covered
2. Details are for general information only
3. Consult a structural engineer for actual wall construction
4. Details are attachments to TDS-261

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**TECHNICAL DATA SHEET**  
**#261**

**List of Standard Jamb Construction Details**  
**(Rolling Fire Doors: Masonry Construction - Bolted and Welded Guides)**

- Figure 1. [Preferred CMU Reinforcement Detail](#)
- Figure 2. [Preferred Brick/Concrete Reinforcement Detail](#)
- Figure 3. [Face-mounted “Z” guide configuration; bolted connection; hollow block](#)
- Figure 4. [Face-mounted “Z” guide configuration; bolted connection; filled block](#)
- Figure 5. [Face-mounted “Z” guide configuration; bolted connection; brick or poured concrete](#)
- Figure 6. [Face-mounted “E” guide configuration; fastened or welded connection; steel bent plate at jamb; brick or poured concrete](#)
- Figure 7. [Face-mounted “E” guide configuration; fastened or welded connection; steel angle at jamb; brick or poured concrete](#)
- Figure 8. [Face-mounted “E” guide configuration; fastened or welded connection; structural steel channel at jamb; brick or poured concrete](#)
- Figure 9. [Face-mounted “E” guide configuration; fastened or welded connection; steel angle at jamb; filled block](#)
- Figure 10. [Jamb-mounted “Z” guide configuration; bolted connection; filled block](#)
- Figure 11. [Jamb-mounted “Z” guide configuration; bolted connection; brick or poured concrete](#)
- Figure 12. [Jamb-mounted “Z” guide configuration; fastened or welded connection; structural steel channel at jamb; brick or poured concrete](#)
- Figure 13. [Jamb-mounted “Z” guide configuration; fastened or welded connection; steel bent plate at jamb; brick or poured concrete](#)
- Figure 14. [Section view, face-mounted welded guide wall angle](#)
- Figure 15. [Section view, jamb-mounted welded guide wall angle](#)

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## DASMA Recommended Common Jamb Construction for Rolling Fire Doors For Maximum 4 Hour Rating

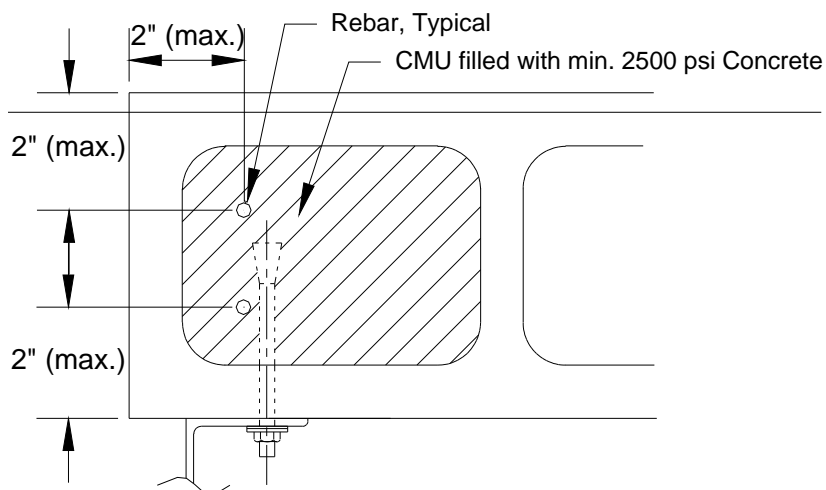


Figure 1  
Preferred CMU Reinforcement Detail

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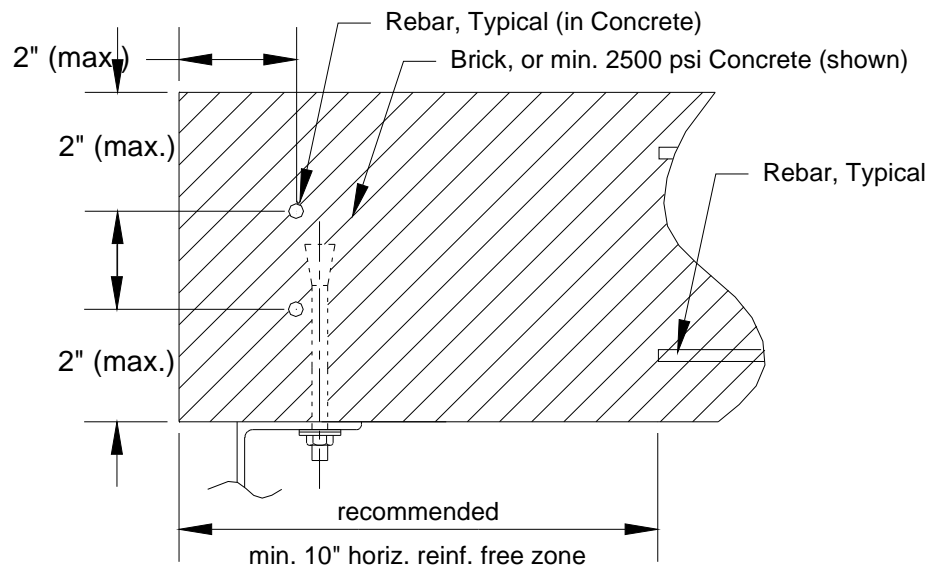
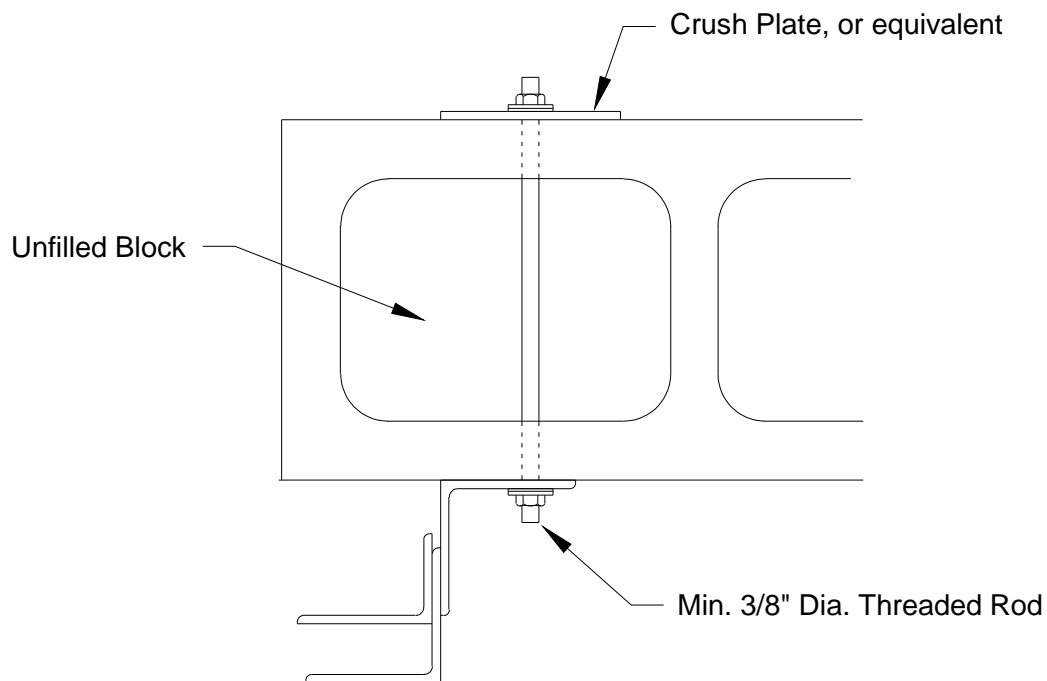


Figure 2  
Preferred Brick/Concrete Reinforcement Detail

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**Figure 3**  
**Face-mounted "Z" configuration;**  
**bolted connection; hollow block**

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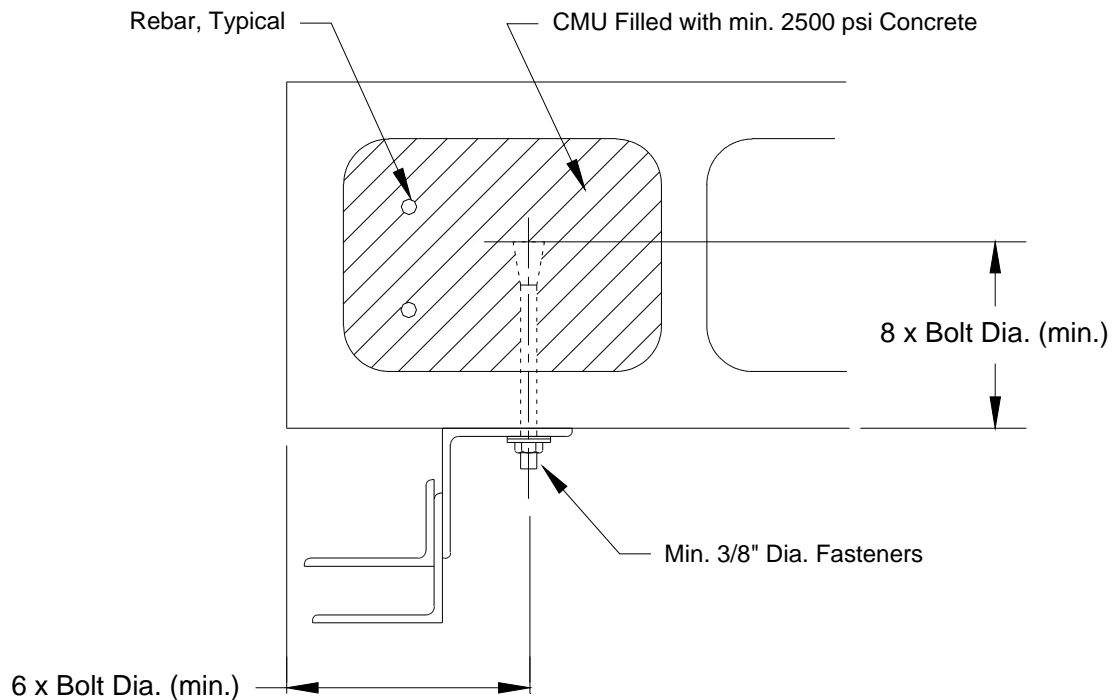
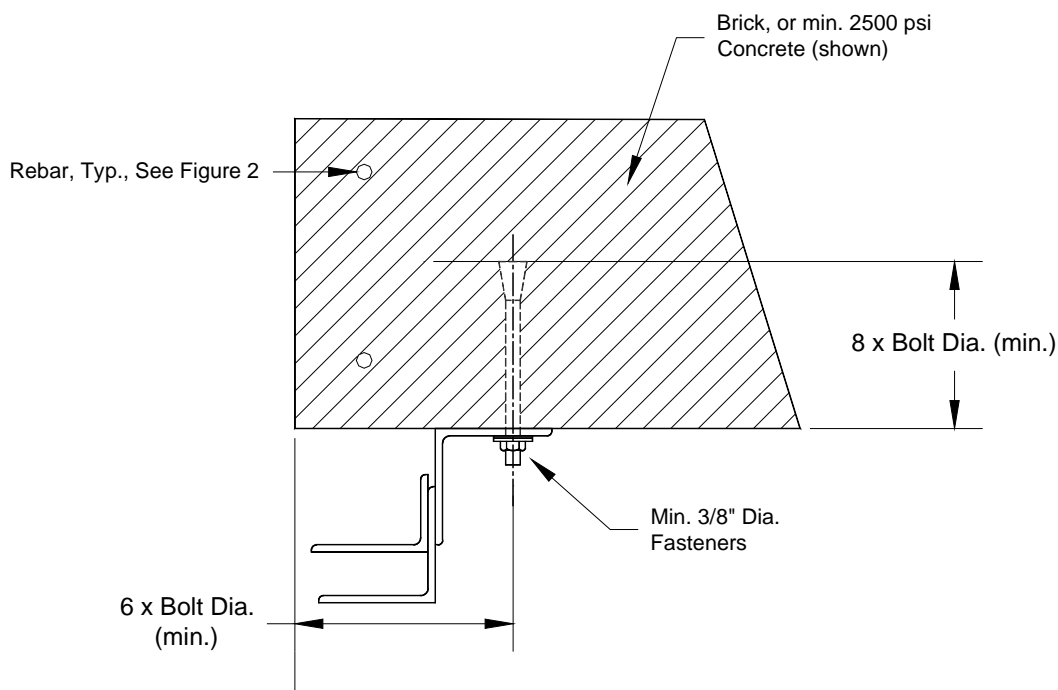


Figure 4  
Face-mounted "Z" configuration;  
bolted connection; filled block

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**Figure 5**  
Face-mounted "Z" configuration;  
bolted connection; brick or concrete

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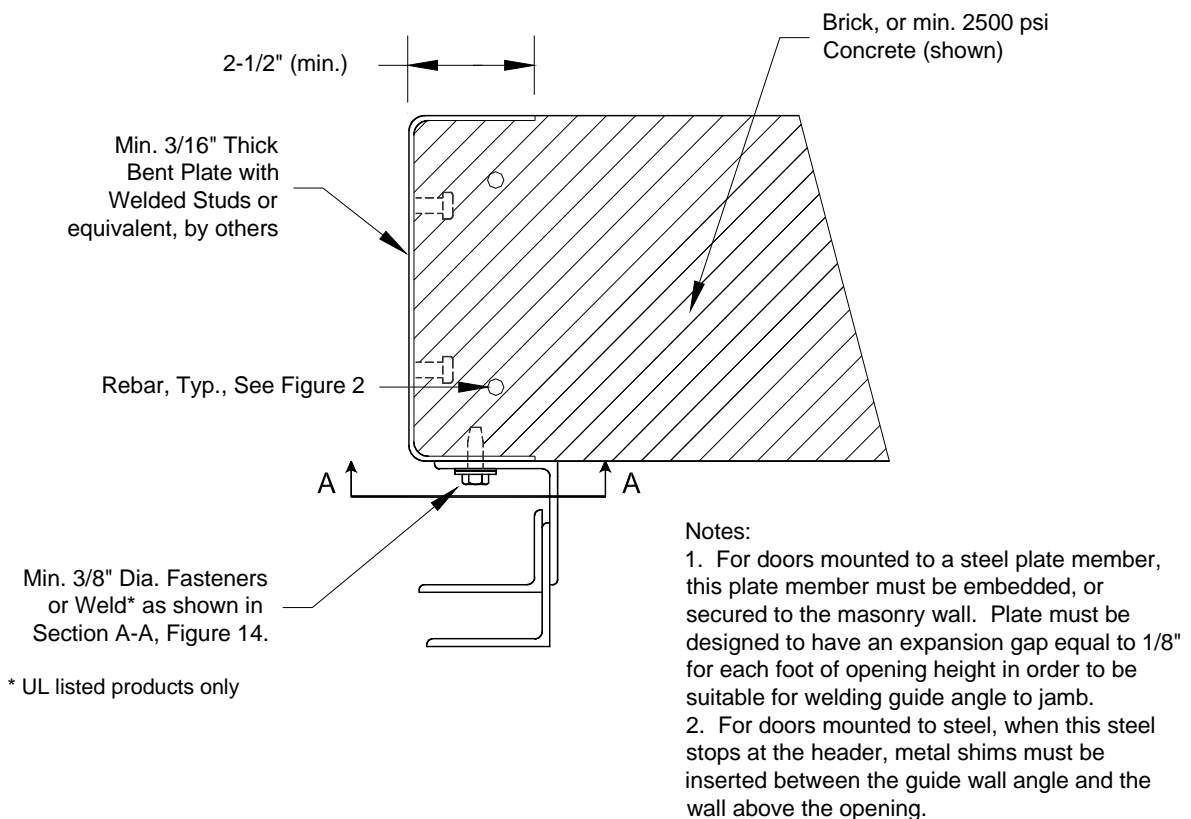


Figure 6  
Face-mounted "E" configuration;  
fastened or welded connection; steel bent plate at jamb;  
brick or concrete

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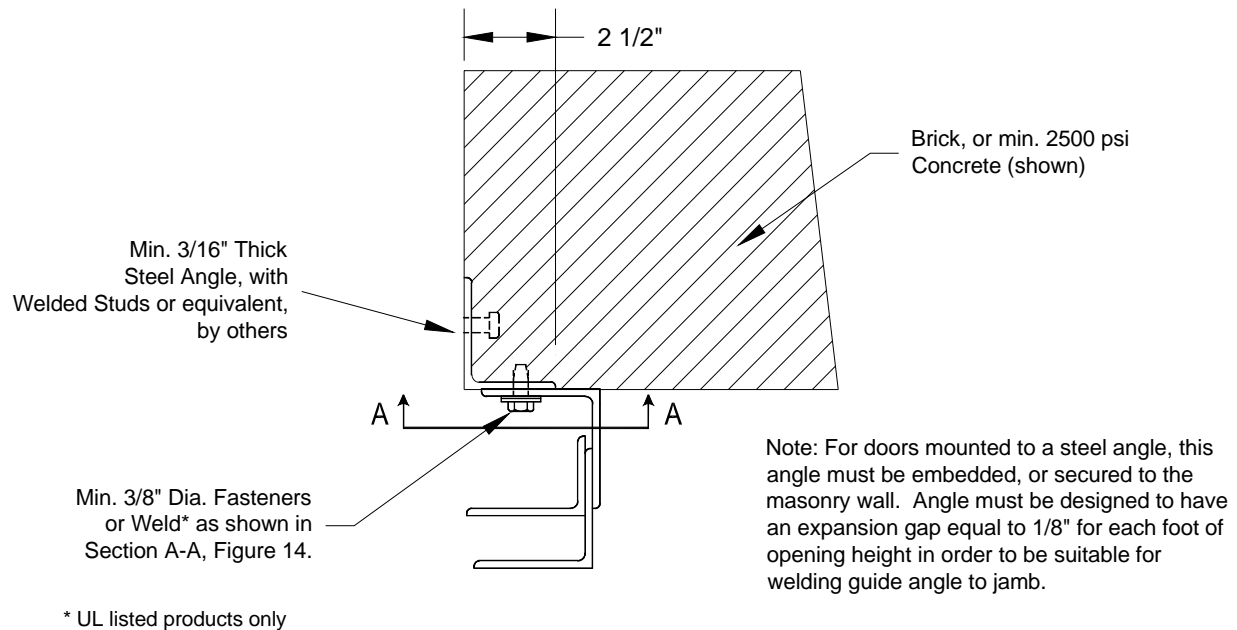
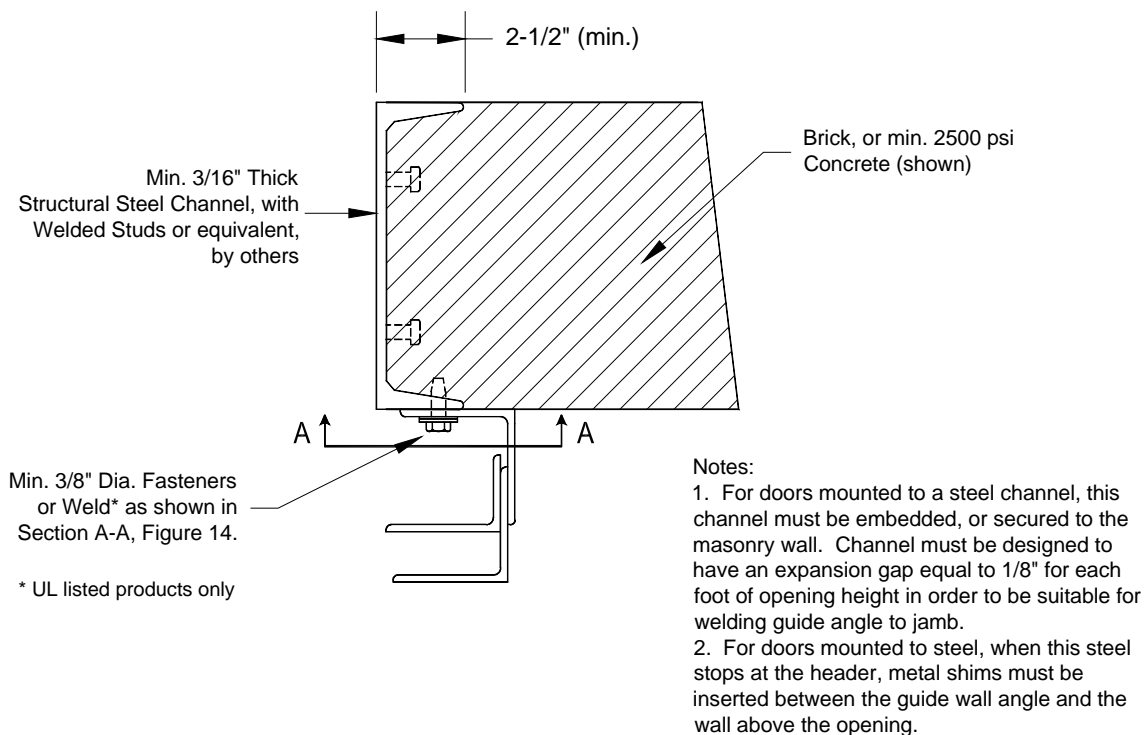


Figure 7  
Face-mounted "E" configuration;  
fastened or welded connection; steel angle at jamb;  
brick or concrete

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**Figure 8**  
Face-mounted "E" configuration;  
fastened or welded connection; structural steel channel at jamb;  
brick or concrete

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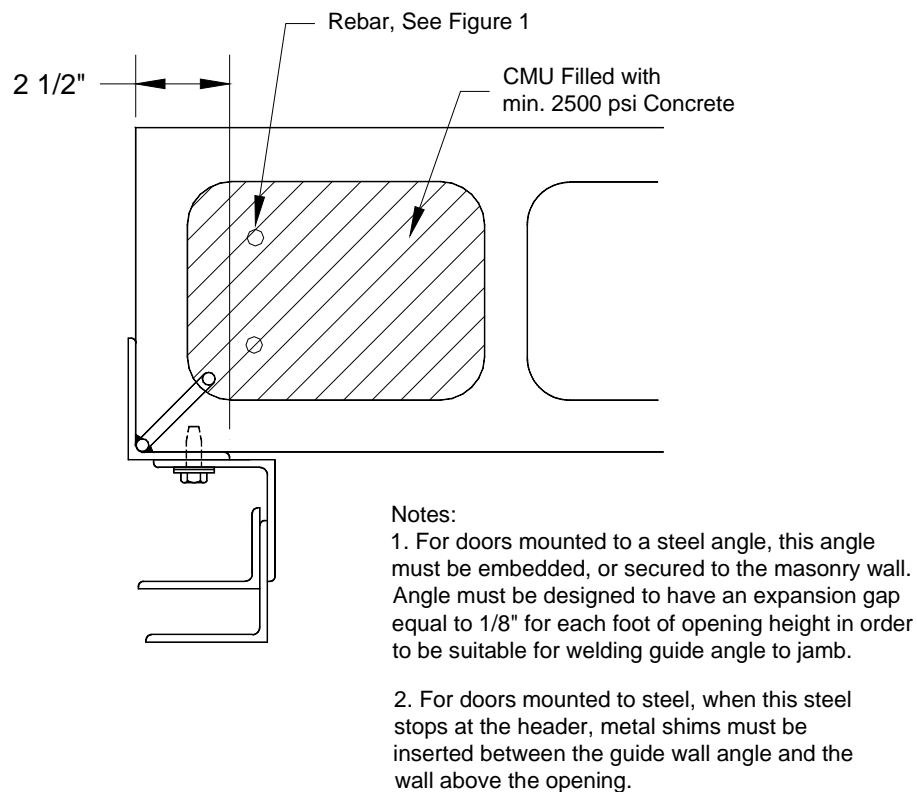


Figure 9  
Face-mounted "E" configuration;  
fastened or welded connection; steel angle at jamb; filled block

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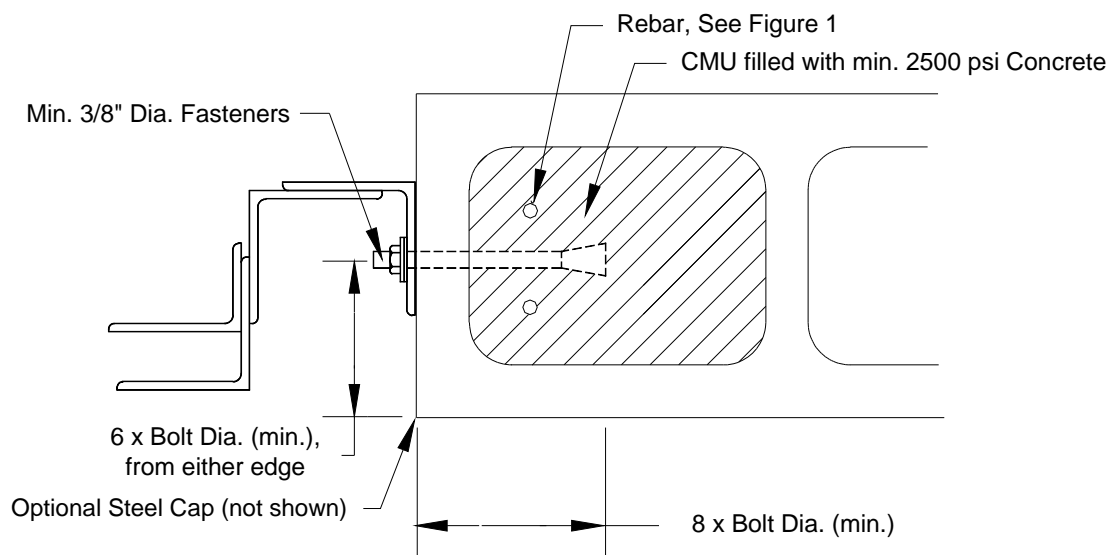


Figure 10  
Jamb-mounted "Z" configuration;  
bolted connection; filled block

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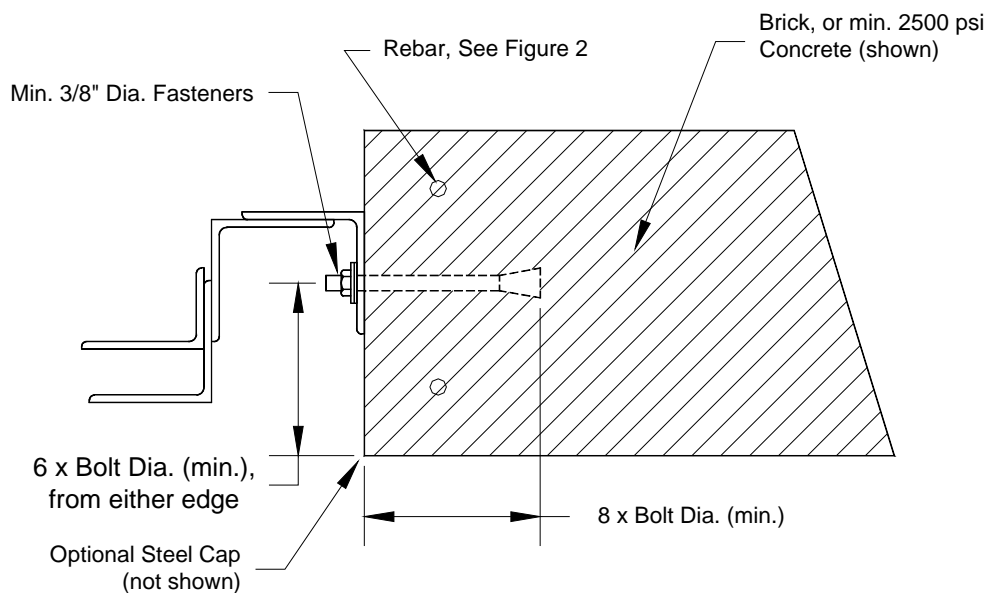


Figure 11  
Jamb-mounted "Z" configuration;  
bolted connection; brick or concrete

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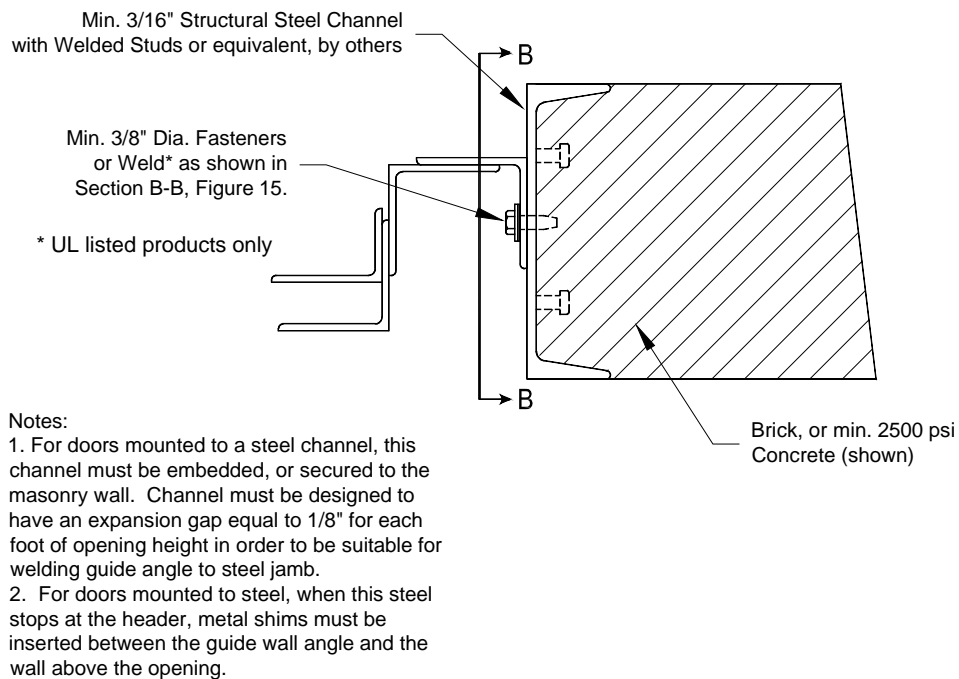


Figure 12  
Jamb-mounted "Z" configuration;  
fastened or welded connection; structural steel channel at jamb;  
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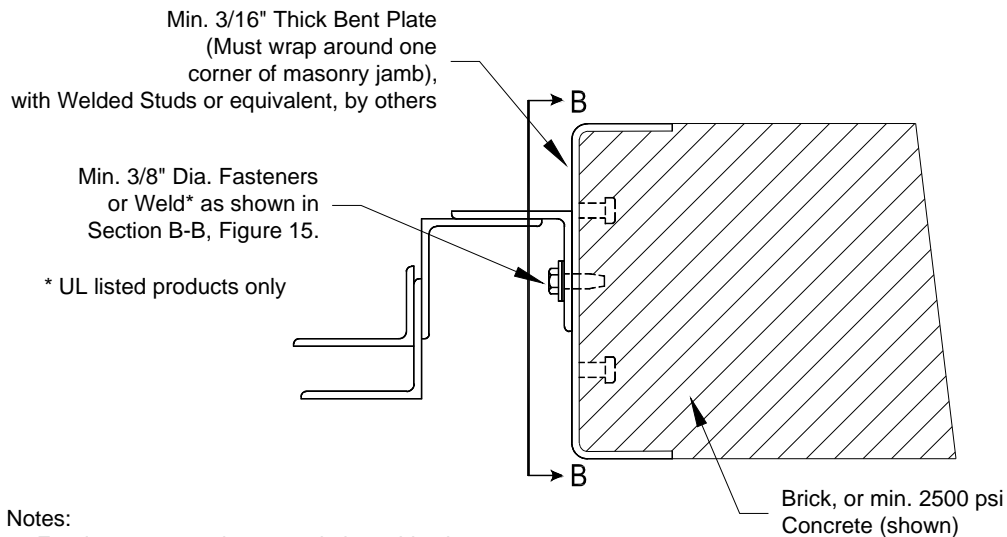


Figure 13  
Jamb-mounted "Z" configuration;  
fastened or welded connection; steel bent plate at jamb;  
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**#261**

**DASMA Recommended**  
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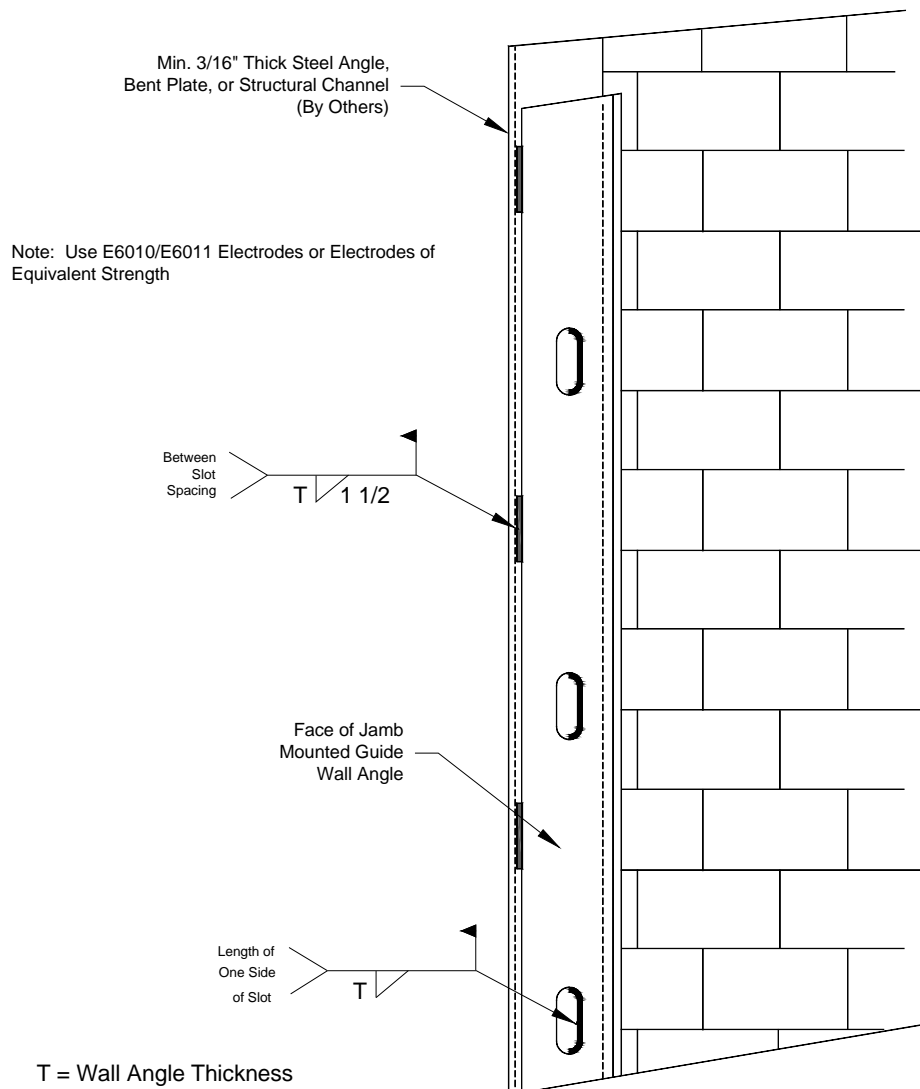


Figure 14  
 (Section A-A)  
 Face of Jamb Welded Guide Wall Angle (UL listed products only)

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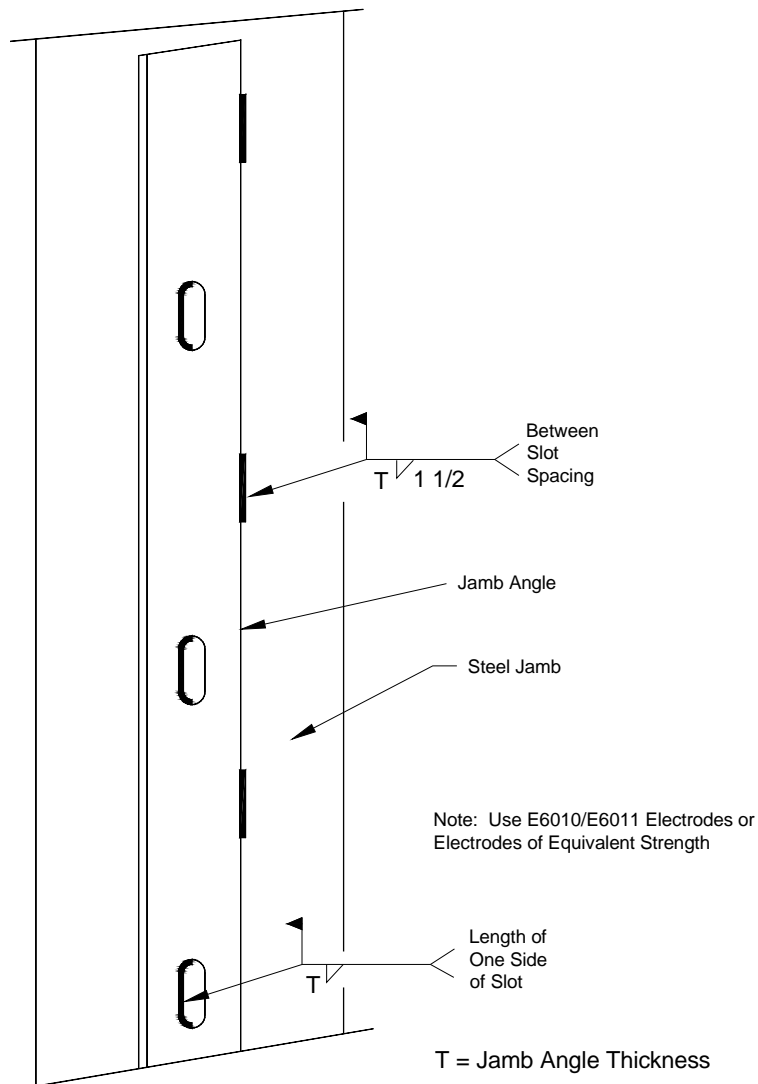


Figure 15  
(Section B-B)  
Between Jamb Welded Guide Wall Angle (UL listed products only)

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