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

Introduction:

Rolling steel 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 Steel 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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List of Standard Jamb Construction Details (Masonry, 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 Steel Fire Doors For Maximum 4 Hour Rating

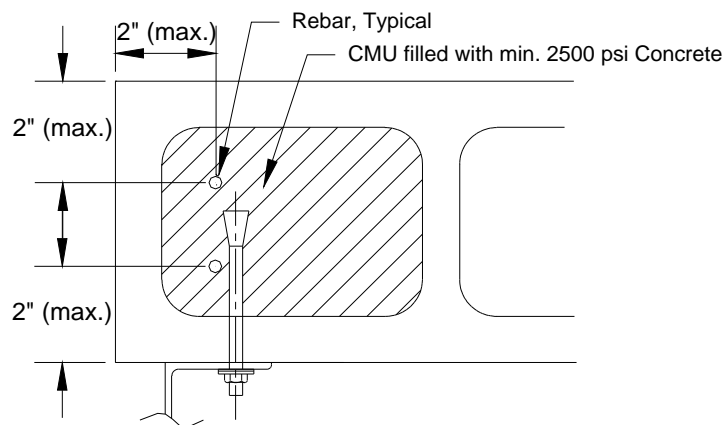


Figure 1
Preferred CMU Reinforcement Detail

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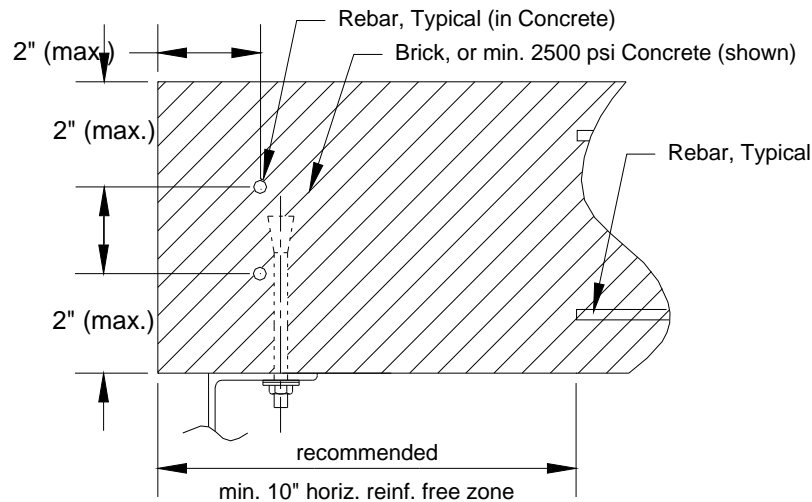


Figure 2
Preferred Brick/Concrete Reinforcement Detail

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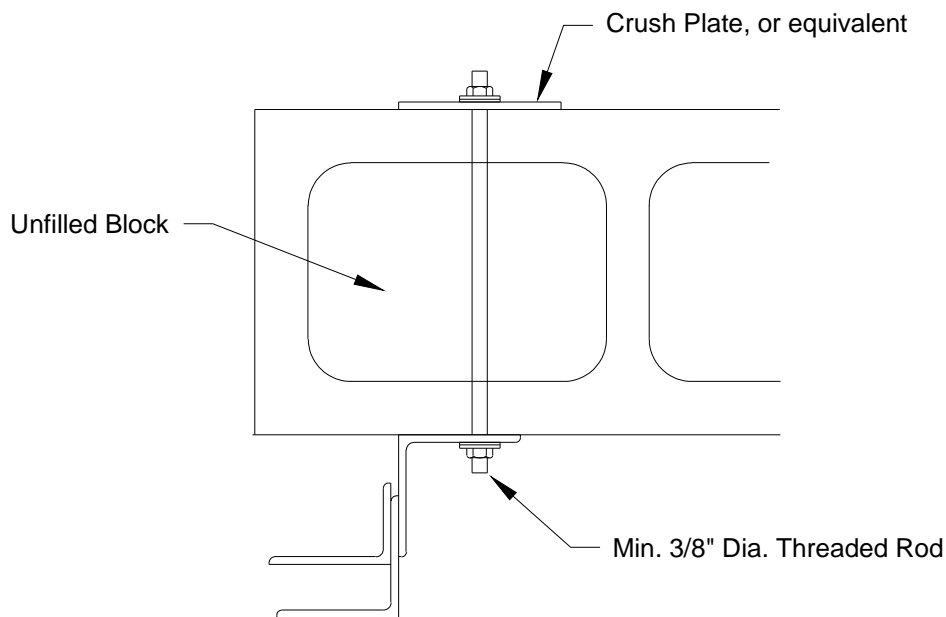


Figure 3
Face-mounted "Z" configuration;
bolted connection; hollow block

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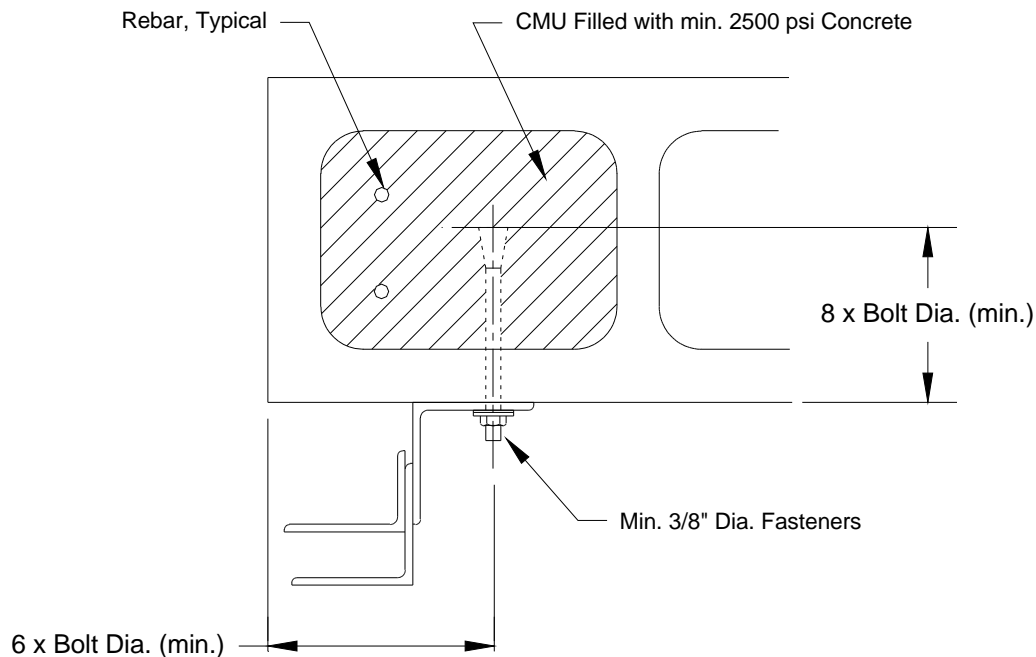


Figure 4
Face-mounted "Z" configuration;
bolted connection; filled block

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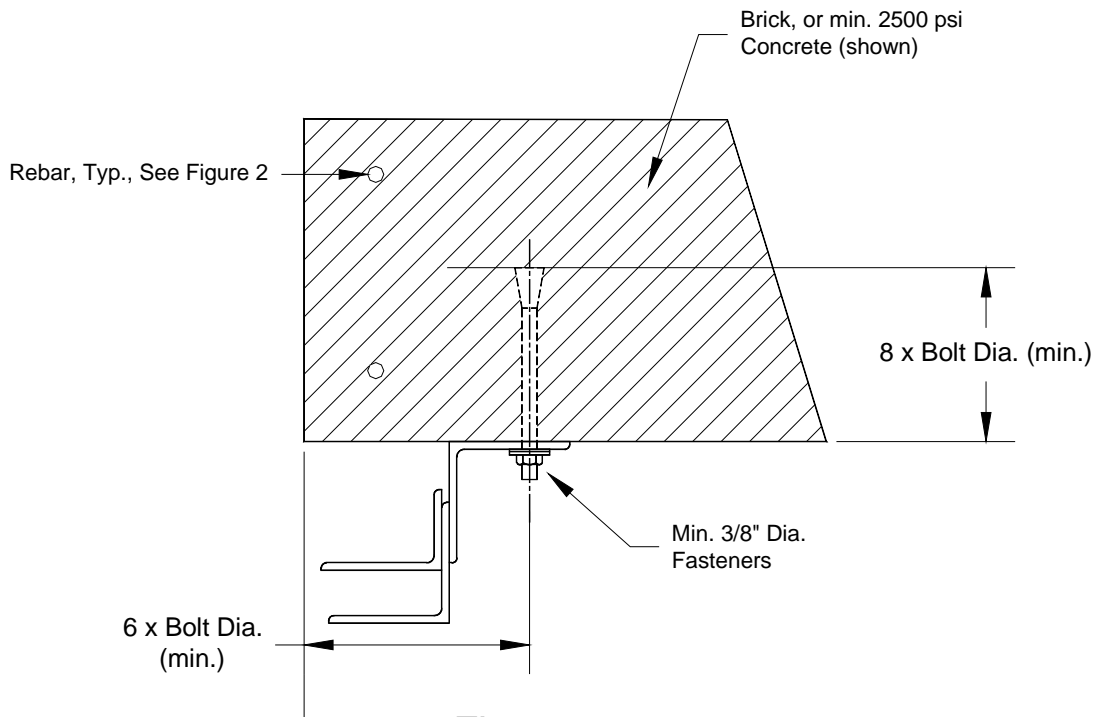


Figure 5
Face-mounted "Z" configuration;
bolted connection; brick or concrete

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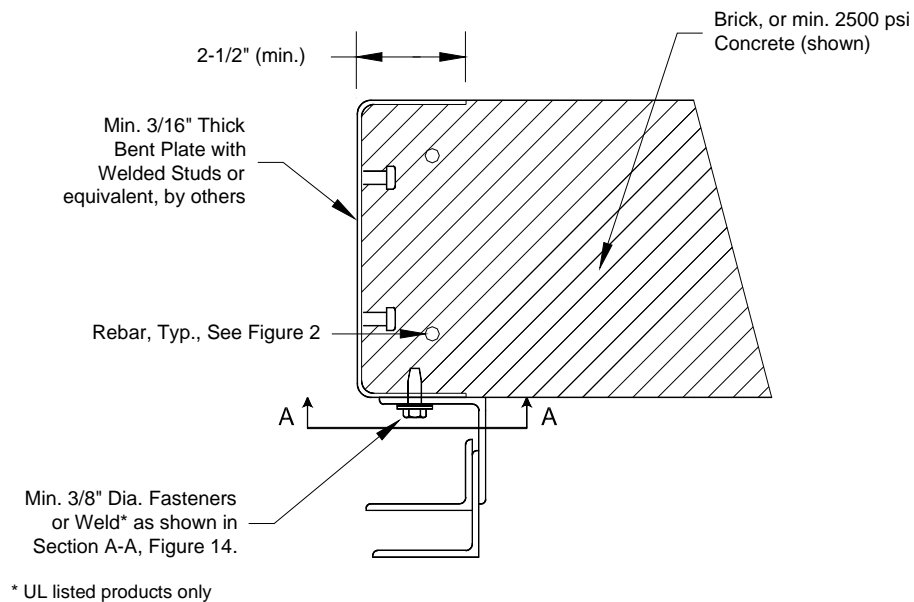


Figure 6
Face-mounted "E" configuration;
fastened or welded connection; steel bent plate at jamb;
brick or concrete

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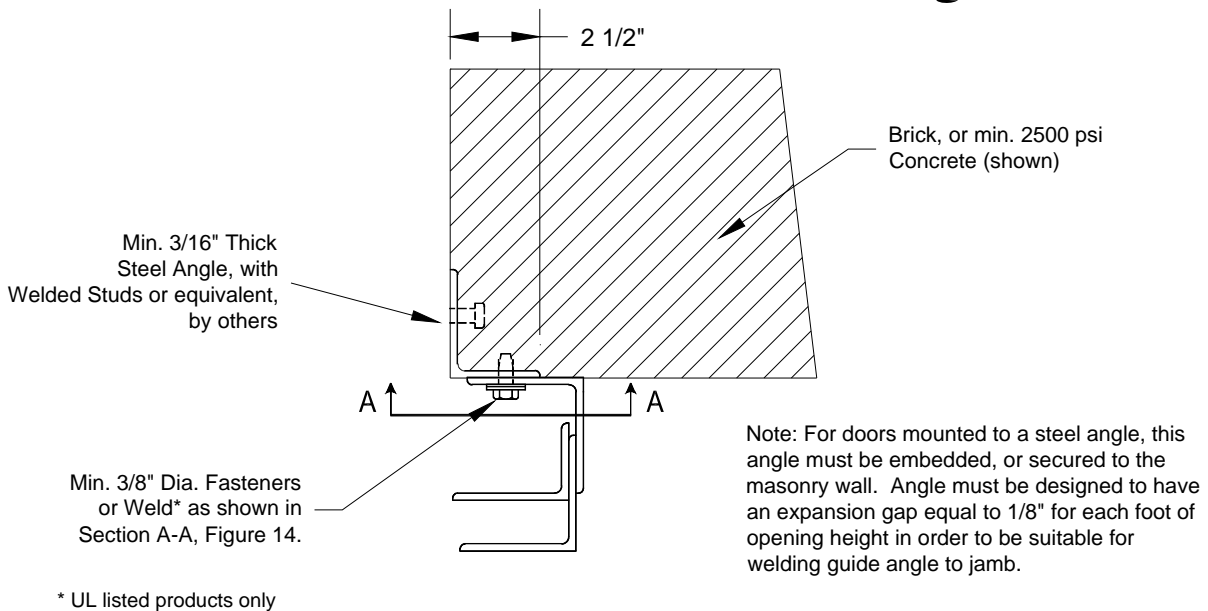


Figure 7
Face-mounted "E" configuration;
fastened or welded connection; steel angle at jamb;
brick or concrete

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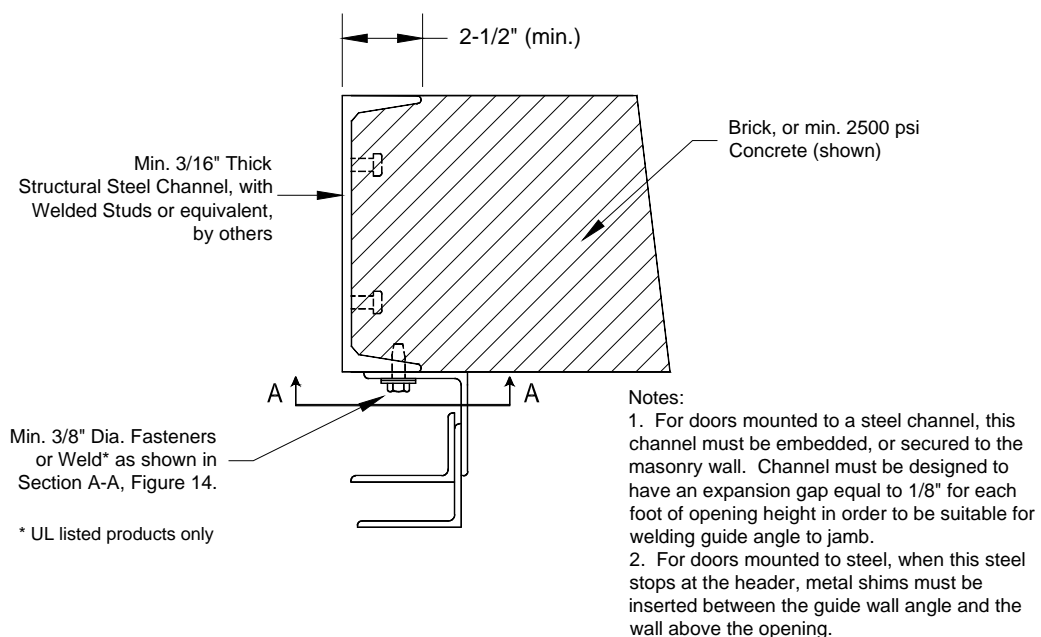
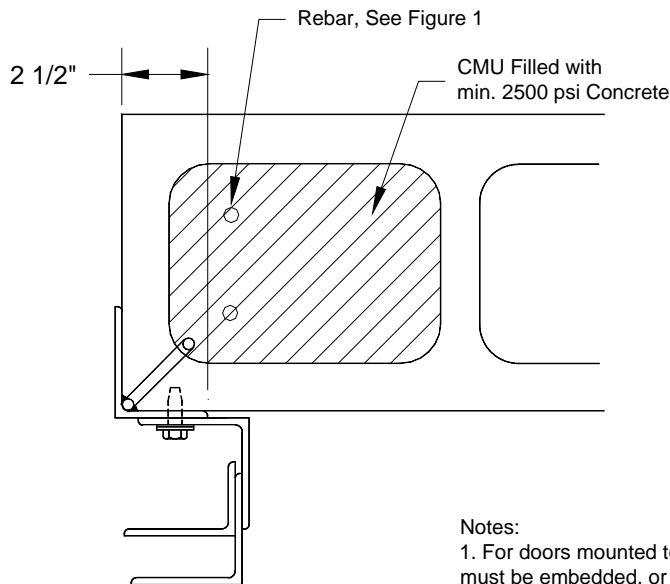


Figure 8
Face-mounted "E" configuration;
fastened or welded connection; structural steel channel at jamb;
brick or concrete

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Notes:

1. For doors mounted to a steel angle, this angle must be embedded, or secured to the masonry wall. Angle must be designed to have an expansion gap equal to 1/8" for each foot of opening height in order to be suitable for welding guide angle to jamb.
2. For doors mounted to steel, when this steel stops at the header, metal shims must be inserted between the guide wall angle and the wall above the opening.

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

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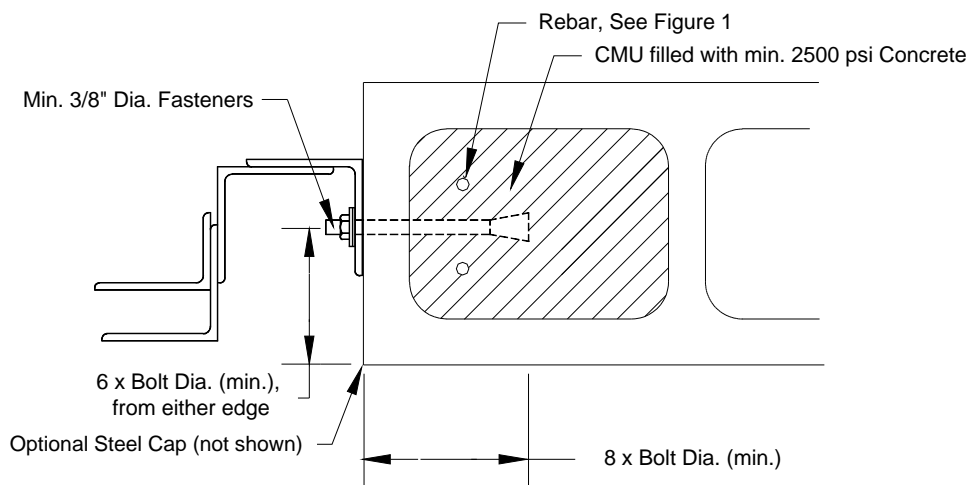


Figure 10
Jamb-mounted "Z" configuration;
bolted connection; filled block

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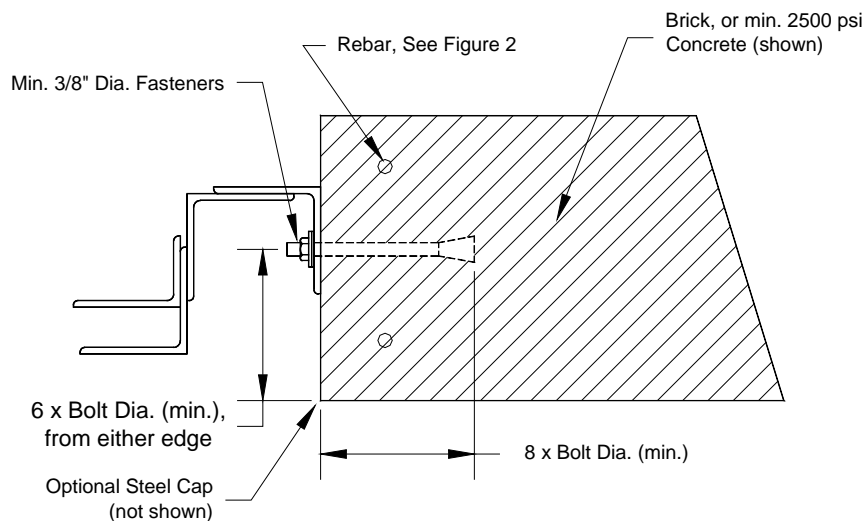


Figure 11
Jamb-mounted "Z" configuration;
bolted connection; brick or concrete

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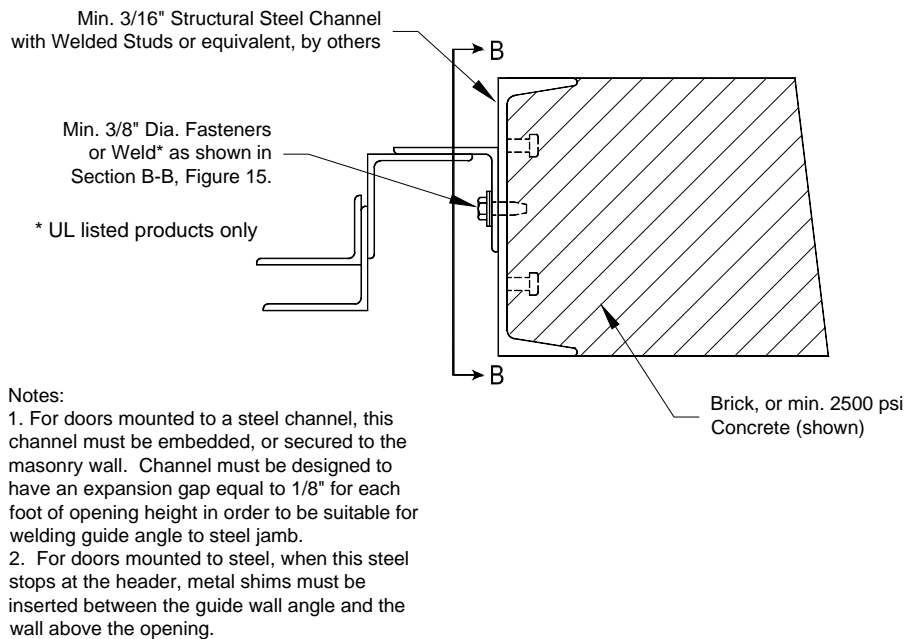


Figure 12
Jamb-mounted "Z" configuration;
fastened or welded connection; structural steel channel at jamb;
brick or concrete

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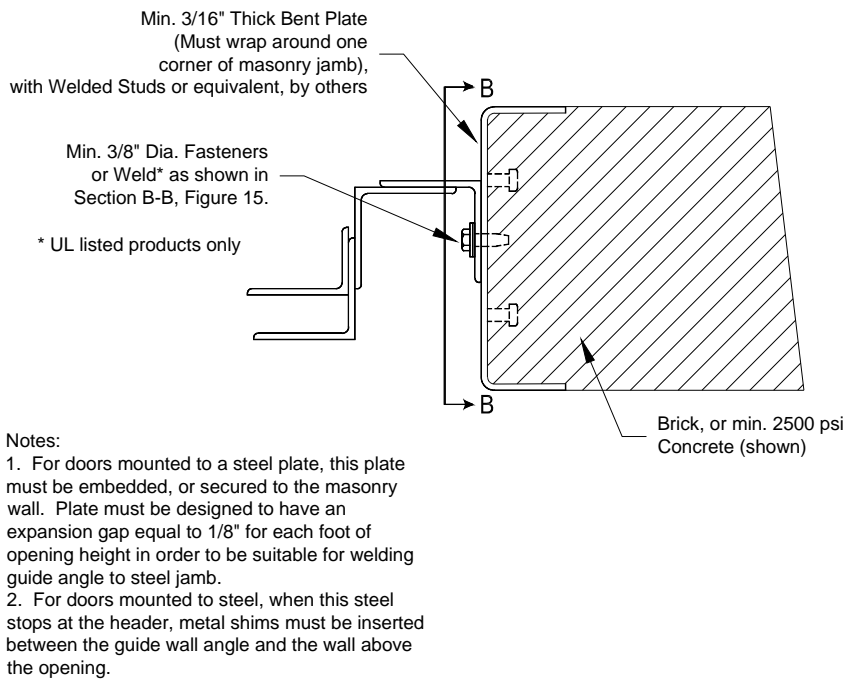


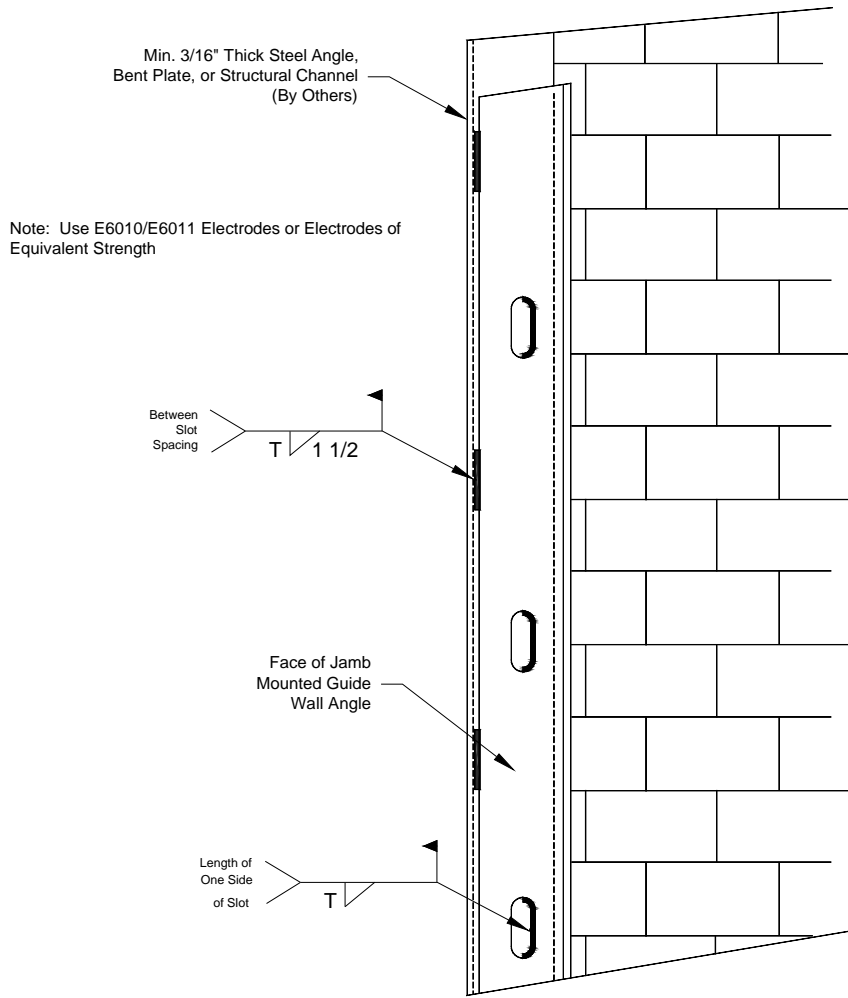
Figure 13
Jamb-mounted "Z" configuration;
fastened or welded connection; steel bent plate at jamb;
brick or concrete

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T = Wall Angle Thickness

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

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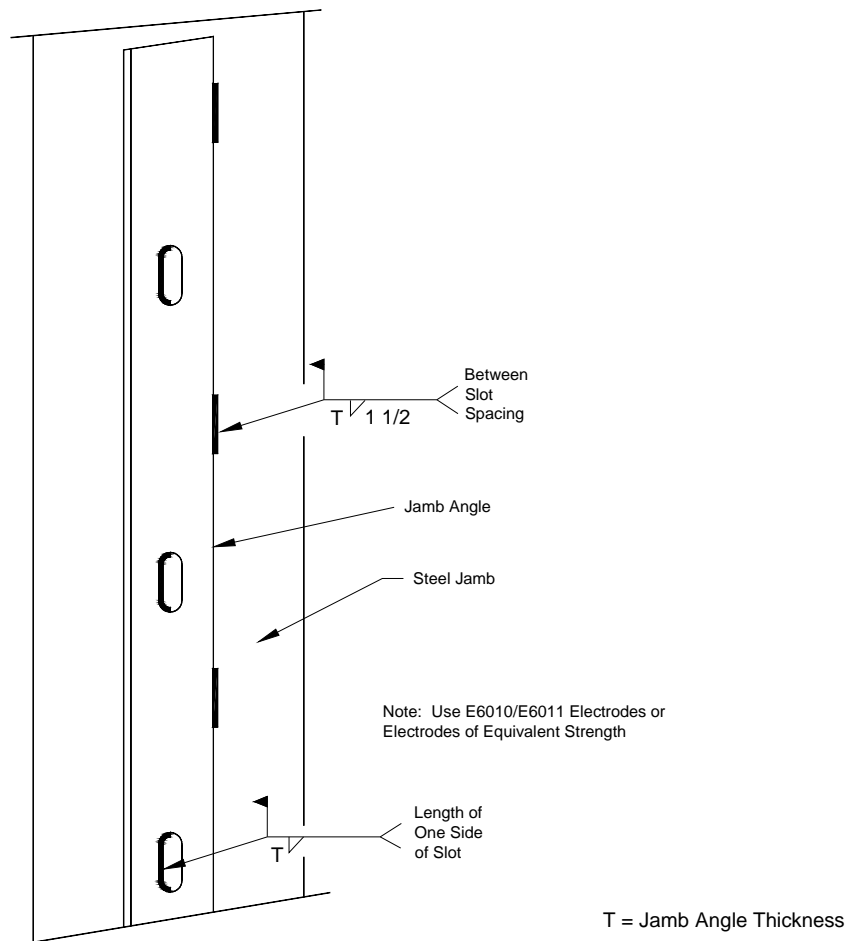


Figure 15
(Section B-B)
Between Jamb Welded Guide Wall Angle (UL listed products only)

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