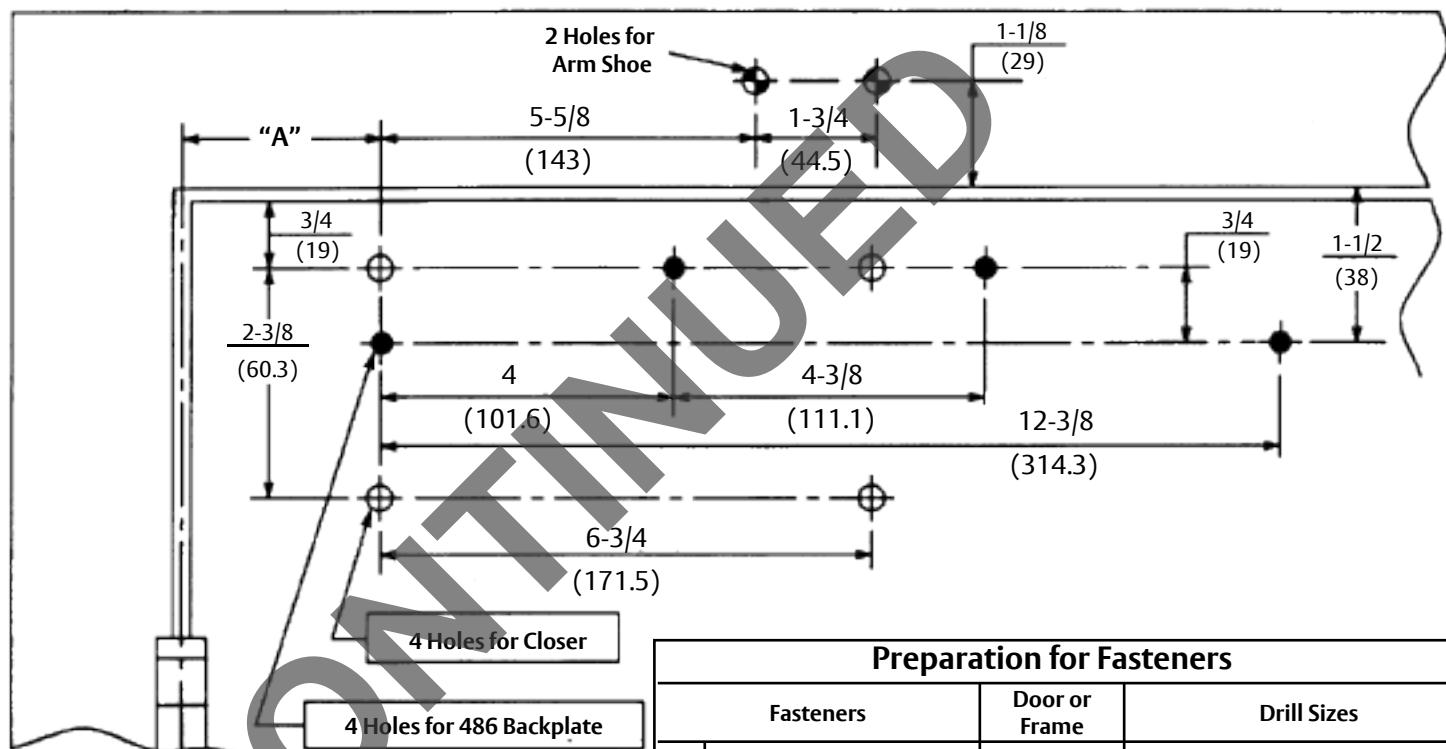


| Opening     | Dim. "A"    |
|-------------|-------------|
| To 100°     | 7-5/8 (194) |
| 100 to 120° | 6-5/8 (168) |
| 120 to 150° | 4-5/8 (117) |
| 150 to 180° | 4-1/8 (105) |

**Caution:** Door swing may be limited by door, frame, wall or hardware conditions (including closer projection).

#### Notes

1. Do not scale drawing.
2. Right hand door shown.
3. Dimensions are in inches (mm).
4. Hollow metal doors require channel or box type reinforcement when thru bolt mount is specified.
5. Sex bolts may be required for wood or plastic faced fire door mounting.
6. Minimum thickness recommended for reinforcements in hollow metal doors and frames: 01046" (2.66mm) unless otherwise noted.



#### Preparation for Fasteners

|          | Fasteners  | Door or Frame    | Drill Sizes   |
|----------|--|------------------|---|
| Standard | #14 type "A" S.M. Screw<br>Arm: 1-1/4" (32mm)<br>Closer: 2-3/4" (70mm) | Wood             | 7/32" (5.5 mm)  |
|          |  | Aluminum         |   |
| Optional | 1/4-20 machine screw   | Metal            | drill: #7 (.201")<br>tap: 1/4-20  |
|          | Sex nuts and bolts   | Hollow Metal     | 9/32" (7.00mm) thru;<br>3/8" (9.50mm) on door or transom face opposite to closer                            |
|          |  | Aluminum or Wood | 3/8" (9.50mm.) thru   |
|          | Thru bolts and grommet nuts  | All              | 9/32" (7.00mm) thru;<br>3/8" (9.50mm) dia. x<br>3/8" (10mm) deep on door or transom face opposite to closer |

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400 Series Door Closers-Sized 2 thru 6  
4400 Series Door Closers-Multi-Size 1 to 6  
With or Without 486 Backplate  
Regular Non-Hold Open Arm Application

Template Number:  
7344-0101  
Sheet: 1 of 1  
Date: 12/23

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