



| Door Opening Angle |           | Dimensions              |        |               |        |
|--------------------|-----------|-------------------------|--------|---------------|--------|
| Hold Open ★        | Dead Stop | Butts and Offset Pivots |        | Center Pivots |        |
|                    |           | A                       | B      | A             | B      |
| 85°                | 90°       | 5-1/8                   | 10-3/8 | 5-3/4         | 11     |
| 90°                | 95°       | 4-1/2                   | 9-3/4  | 5-1/8         | 10-3/8 |
| 95°                | 100°      | 4                       | 9-1/4  | 4-5/8         | 9-7/8  |
| 100°               | 105°      | 3-5/8                   | 8-7/8  | 4-1/4         | 9-1/2  |
| 105°               | 110°      | 3-1/4                   | 8-1/2  | 3-7/8         | 9-1/8  |
| 110°               | 115°      | 2-7/8                   | 8-1/8  | 3-5/8         | 8-7/8  |

★ Door must be free to swing 5° beyond hold-open position.

**Notes:**

Do not scale drawing.

Left hand door shown.

Dimensions are in inches.

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm).

Follow Conversion Chart for metric dimensions.

| Preparation for Fasteners                |                              |                   |  |
|--|------------------------------|-------------------|--|
| Fasteners                                | Application                  | Door or Frame     | Drill Sizes  |
| Sex nuts and bolts                       | Closer Drop Plate            | Hollow Metal      | 9/32" (7.00mm) through<br>3/8" (9.50mm) door face<br>opposite to closer                          |
|  |                              | Alluminum or Wood | 3/8" (9.50mm) through  |
| #14 x 1-1/4" (32mm) type "A" S.M. screws | Soffit plate<br>6190 Bracket | Wood              | 3/16" (4.30mm)   |
|  |                              | Metal             | drill: #7 (.201") tap: 1/4-20  |
| 1/4-20 machine screw                     |                              |                   |  |
| Through bolts and grommet nuts           | Optional                     | All               | 9/32" (7.00mm) through<br>3/8" (9.50mm) dia. x 3/8" (10mm) deep,<br>door face opposite to closer |

| inches | mm.  | inches | mm.   | inches | mm.   |
|--------|------|--------|-------|--------|-------|
| 5/16   | 8    | 3-1/4  | 82.5  | 8-1/2  | 216   |
| 3/8    | 9.5  | 3-5/8  | 92    | 8-7/8  | 225.5 |
| 7/16   | 11   | 3-7/8  | 98.5  | 9-1/8  | 232   |
| 3/4    | 19   | 4      | 101.5 | 9-1/4  | 235   |
| 1-1/8  | 28.5 | 4-1/4  | 108   | 9-1/2  | 241.5 |
| 1-1/4  | 31.5 | 4-1/2  | 114   | 9-3/4  | 247.5 |
| 2      | 51   | 4-5/8  | 117.5 | 9-7/8  | 251   |
| 2-3/4  | 70   | 5-1/8  | 130   | 10-3/8 | 263.5 |
| 2-7/8  | 73   | 5-3/4  | 146   | 11     | 279.5 |
| 3      | 76   | 8-1/8  | 206   | 12     | 305   |

**Unitrol® Standard Application**  
**Series UNI-8300, UNI-8301,**  
**UNI-8500, UNI-8501**  
**Doors 28" - 32" (0.70-0.80m) Wide**

**Parallel Arm Installation Template**  
**Stop Only or Hold Open Unitrol®**  
**Backcheck or Delayed Action Door Closer**  
**With or Without 8148 Drop Plate**



**ASSA ABLOY**

|                  |          |              |
|------------------|----------|--------------|
| TEMPLATE NUMBER  | REV      | DATE         |
| <b>7380-1351</b> | <b>3</b> | <b>12/21</b> |