NOTES:
1) DO NOT SCALE THIS DRAWING
2) DIMENSIONS ARE IN INCHES [MM]
3) RIGHT HAND DOOR IS SHOWN
4) CAUTION: SEX NUTS ARE REQUIRED FOR ATTACHMENT OF COMPONENTS TO UNREINFORCED DOORS AND TO WOOD OR PLASTIC FACE COMPOSITE TYPE FIRE DOORS. UNLESS AN ALTERNATIVE METHOD IS IDENTIFIED IN THE INDIVIDUAL DOOR MANUFACTURER’S LISTINGS.
5) OPTIONAL DPK FASTENERS (DPK89) FOR STEEL DOOR & FRAME ONLY.

FOR 1/4-20 MACHINE SCREWS, USE 13/64" OR #7 DRILL & TAP
FOR NO.14 WOOD SCREWS, USE 5/32" DRILL
FOR DPK FASTENERS, USE 1/8" DRILL
TWO (2) HOLES IN FRAME ARE FOR ARM SHOE (SHOWN)

"B"
BOTTOM OF FRAME 2-1/8" [54] 1-1/8" [29] 5" [127]

Hinge or pivot

CEILING HEIGHT 2-1/4" MIN. [57]

FOR 1/4-20 MACHINE SCREWS, USE 13/64" OR #7 DRILL & TAP
FOR NO.14 WOOD SCREWS, USE 5/32" DRILL
FOR DPK FASTENERS, USE 1/8" DRILL
FOR SEX NUTS, USE 3/8" DRILL
FOUR (4) HOLES IN DOOR ARE FOR CLOSER (SHOWN)
**NOTES:**

1. DO NOT SCALE THIS DRAWING
2. DIMENSIONS ARE IN INCHES / [MM]
3. RIGHT HAND DOOR IS SHOWN
4. CAUTION: SEED NUTS ARE REQUIRED FOR ATTACHMENT OF COMPONENTS TO UNREINFORCED DOORS AND TO WOOD OR PLASTIC FACE COMPOSITES TYPE FIRE DOORS, UNLESS AN ALTERNATIVE METHOD IS IDENTIFIED IN THE INDIVIDUAL DOOR MANUFACTURER'S LISTINGS.
5. OPTIONAL DPK FASTENERS (DPK89) FOR STEEL DOOR & FRAME ONLY.

<table>
<thead>
<tr>
<th>ANGLE OF HOLD OPEN</th>
<th>ANGLE OF CUSHION</th>
<th>DIMENSION &quot;A&quot; (BACK PLATE)</th>
<th>DIMENSION &quot;B&quot; (ARM SHOE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°</td>
<td>91° - 93°</td>
<td>9-3/4&quot; [248]</td>
<td>12-3/4&quot; [324]</td>
</tr>
<tr>
<td>95°</td>
<td>96° - 98°</td>
<td>9-1/4&quot; [235]</td>
<td>12-3/8&quot; [314]</td>
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<tr>
<td>100°</td>
<td>101° - 103°</td>
<td>8-7/8&quot; [225]</td>
<td>11-7/8&quot; [302]</td>
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<tr>
<td>105°</td>
<td>106° - 108°</td>
<td>8-1/2&quot; [216]</td>
<td>11-1/2&quot; [292]</td>
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<tr>
<td>110°</td>
<td>111° - 113°</td>
<td>8-1/8&quot; [206]</td>
<td>11-1/8&quot; [383]</td>
</tr>
</tbody>
</table>

FOR 1/4-20 MACHINE SCREWS, USE 13/64" OR #7 DRILL & TAP
FOR No.14 WOOD SCREWS, USE 5/32" DRILL
FOR DPK FASTENERS, USE 1/8" DRILL
TWO (2) HOLES IN FRAME ARE FOR ARM SHOE (SHOWN)


CEILING HEIGHT 2-1/4" MIN. [57]

DOOR CLOSER MODELS: 8916 & 8956 ISH
REGULAR INSTALLATION (PULL SIDE MOUNT) WITH BACK PLATE BP89
INTEGRA CUSHION ARM

DORMA Architectural Hardware
Reamstown, PA 17567