OVERHEAD HOLDERS OR STOPS MUST BE INSTALLED BEFORE CLOSERS

1. A. DETERMINE THE MOUNTING BEING USED FROM ILLUSTRATION BELOW.
   B. SELECT MOUNTING GROUP NUMBER FROM THE CHART BELOW. MOST CONTINUOUS HINGES ARE
   GROUPED WITH 4 1/2" WIDE BUTT OR 4 1/2" SWING CLEAR HINGE.
   C. USING THE MOUNTING GROUP NUMBER AND THE OVERHEAD HOLDER OR STOP SIZE AND THE
   DEGREE OF OPENING DESIRED, FIND "A", "B", "C", "D", AND "E" DIMENSIONS FROM CHARTS
   ON PAGE 3 THRU 6. FOR DEAD STOP ADD 9/16" (14) TO THE "A" DIMENSION FROM THE CHART.
   SEE NOTE D FOR INFORMATION ABOUT DEAD STOP.

NOTES:
A. HOLLOW METAL FRAMES SHOULD BE PROPERLY REINFORCED
   WITH A 3/16" (5) MINIMUM THICKNESS BY 12" (305)
   MINIMUM LENGTH PLATE.
B. HOLLOW METAL DOORS SHOULD BE PROPERLY REINFORCED
   WITH A 3/16" (5) MINIMUM THICKNESS PLATE.
C. STOP ONLY UNITS ARE PERMITTED ON MANY FIRE DOOR
   APPLICATIONS. HOWEVER, MECHANICAL HOLD-OPEN DEVICES
   THAT REQUIRE MANUAL RELEASE ARE NOT PERMITTED FOR USE
   ON ANY FIRE DOOR AS OUTLINED ON NFPA 80 OR NFPA 101®
   CONTACT GLYNN-JOHNSON OR YOUR LOCAL REPRESENTATIVE
   FOR ASSISTANCE.
D. DEAD STOP (DS) TEMPLATING MAY BE USED ON HOLD OPEN,
   FRICITION AND STOP ONLY MODELS, BUT SHOULD NOT BE USED
   ON "SE" MODELS. THE DS POSITION IS REACHED WHEN THE
   SMD SPRING IS FULLY COMPRESSED, WHEN DS TEMPLATING
   IS USED, THE INITIAL DEGREE OF STOP WILL BE 5'-7" LESS
   THAN THE DS OPENING. FOR USE ON DOORS OPENING
   BACK-TO-BACK AGAINST A WALL OR OBSTRUCTION.

410 ADJUSTMENTS:
HOLD-OPEN TENSION ADJUSTMENT (HOLD-OPEN UNIT ONLY)
USING A 5/32" BALL END ALLEN WRENCH, TURN SCREW INSIDE
"LONG" END OF THE CAM CLOCKWISE TO DECREASE HOLD-OPEN
TENSON AND COUNTERCLOCKWISE TO INCREASE HOLD-OPEN
TENSION SET TO MINIMUM AT FACTORY.

FRICITION TENSION ADJUSTMENT (FRICITION UNIT ONLY)
USING A 3/32" ALLEN WRENCH, TURN SCREW SHOWN
CLOCKWISE TO INCREASE THE FRICITION TENSION
AND TURN COUNTERCLOCKWISE TO DECREASE THE
FRICITION TENSION.

DIMENSIONS IN ( ) ARE IN MILLIMETERS

<table>
<thead>
<tr>
<th>DOOR</th>
<th>WOOD</th>
<th>METAL</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>#10 x 1 1/2&quot; FPHMS</td>
<td>10-32 x 1 1/2&quot; FPHMS</td>
</tr>
<tr>
<td>JAMB</td>
<td>#10 x 1 1/2&quot; FPHMS</td>
<td>10-32 x 1 1/2&quot; FPHMS</td>
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</table>
2. A. LOCATE "B" DIMENSION ON THE FRAME. NOTE THAT THE "B" DIMENSION IS MEASURED FROM THE CENTERLINE OF THE HINGE AS SHOWN.

B. MORTISE FOR THE JAMBR BRACKET AS SHOWN. REFER TO LEFT AND RIGHT HAND PLAN VIEWS FOR APPROPRIATE HOLE PATTERN.

C. FOR METAL FRAMES, USE A #21 DRILL AND A 10-32 TAP IN 4 PLACES. FOR WOOD FRAMES, DRILL A 1/16" PILOT HOLE IN 4 PLACES.

REFER TO ILLUSTRATION BELOW AND ON SHT 1 FOR THE FOLLOWING NOTES:


B. MORTISE FOR THE CHANNEL AS SHOWN IF REQUIRED.

C. LOCATE "C" AND "E" DIMENSIONS ON THE TOP OF THE DOOR. NOTE THAT THE "C" DIMENSION IS MEASURED FROM THE CENTERLINE OF THE HINGE AS SHOWN.

D. MORTISE FOR ARM CUTOUT AS SHOWN.

E. FOR METAL DOORS, USE A #21 DRILL AND 10-32 TAP IN 2 PLACES. FOR WOOD DOORS, DRILL 1/8" PILOT HOLES IN 2 PLACES.

MOUNTING HOLES SHOULD BE PREPARED IN THE FIELD.

4. A. INSTALL THE CHANNEL IN THE DOOR WITH THE SHOCK SPRING TOWARDS THE HINGE EDGE OF DOOR.

B. INSTALL JAMBR BRACKET IN FRAME.

DIMENSIONS IN ( ) ARE MILLIMETERS.