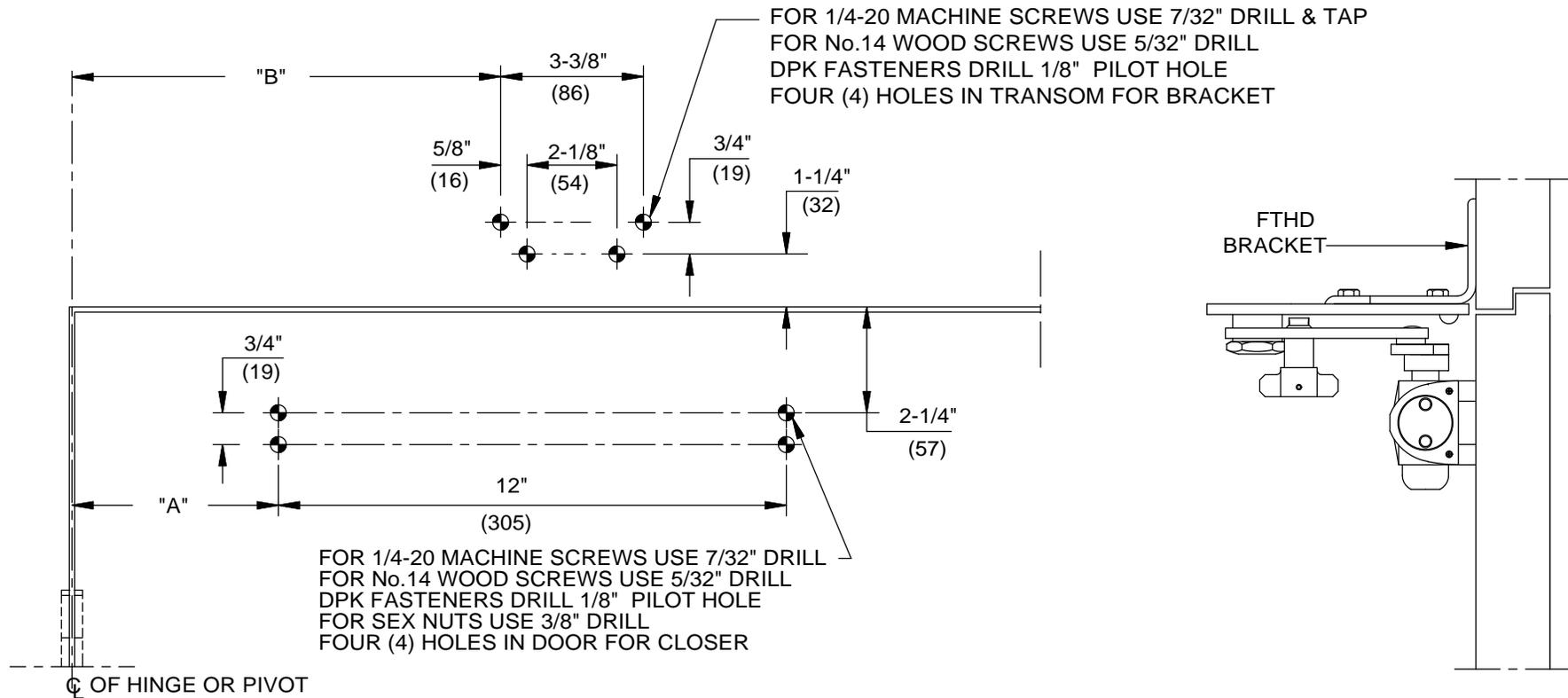


**NOTES:**

1. DO NOT SCALE DRAWING.
2. DIMENSIONS ARE IN INCHES/(MM).
3. LEFT HAND DOOR SHOWN.
4. CAUTION: SEX NUTS ARE REQUIRED FOR ATTACHMENT OF COMPONENTS TO UNREINFORCED DOORS AND TO WOOD OR PLASTIC FACED COMPOSITE TYPE FIRE DOORS, UNLESS AN ALTERNATIVE METHOD IS IDENTIFIED IN THE INDIVIDUAL DOOR MANUFACTURER'S LISTINGS.
5. MINIMUM DOOR WIDTH 26"
6. TEMPLATING BASED ON 4-1/2" x 2-1/2" BUTT HINGES.
7. DPK FASTENERS (DPK86) FOR STEEL DOOR & FRAME ONLY.

| ANGLE OF OPENING HOLD OPEN | DIM. "A" CLOSER | DIM. "B" FTHD BRACKET |
|----------------------------|-----------------|-----------------------|
| TO 100°<br>H.O. 90°        | 4-7/8<br>(124)  | 10-1/8<br>(257)       |
| TO 180°<br>H.O. 123°       | 1-1/4<br>(32)   | 6-1/2<br>(165)        |



DOOR CLOSER MODELS: 8616 SPA, SPAT, SPAK, x FTHD  
 SUPER PARALLEL ARM FLUSH TRANSOM INSTALLATION (PUSH SIDE MOUNT)

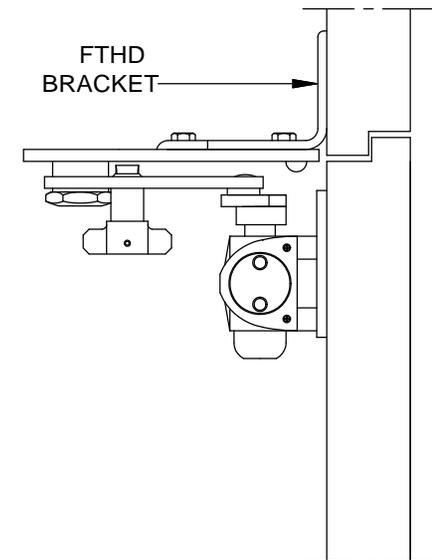
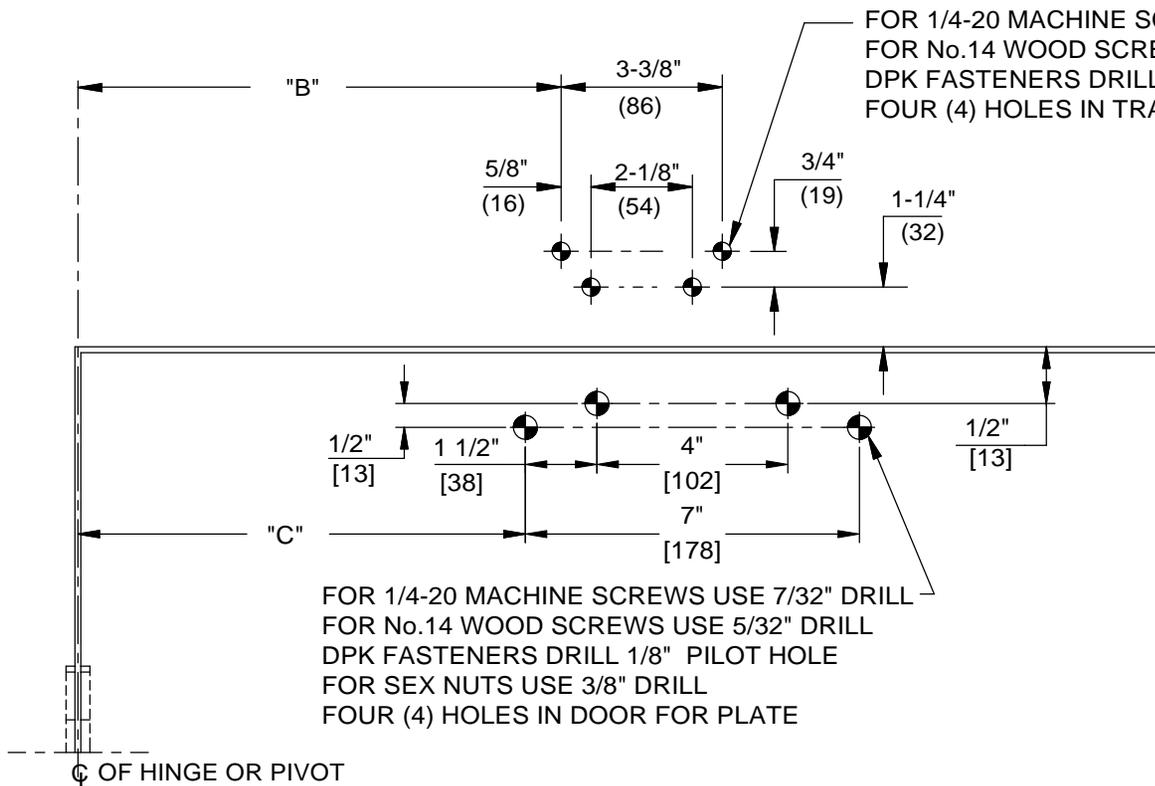


DORMA Architectural Hardware  
 Reamstown, PA 17567

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5. MINIMUM DOOR WIDTH 26"
6. TEMPLATING BASED ON 4-1/2" x 2-1/2" BUTT HINGES.
7. DPK FASTENERS (DPK86) FOR STEEL DOOR & FRAME ONLY.

| ANGLE OF OPENING HOLD OPEN | DIM. "C" PLATE | DIM. "B" FTHD BRACKET |
|----------------------------|----------------|-----------------------|
| TO 100°<br>H.O. 90°        | 9-3/8<br>(238) | 10-1/8<br>(257)       |
| TO 180°<br>H.O. 123°       | 5-3/4<br>(146) | 6-1/2<br>(165)        |



DOOR CLOSER MODELS: 8616 SPA, SPAT, SPAK, x FTHD  
 SUPER PARALLEL ARM FLUSH TRANSOM INSTALLATION (PUSH SIDE MOUNT)  
 WITH PLATES DP86, DP86FC



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