GENERAL

a. Revolving doors, gates and turnstiles shall not be part of an accessible route.

b. **Width:** 32" clear min. (Opening more than 24" deep shall be 36" clear min.)

c. **Thresholds:** ½" max height

d. **Hardware:**
   - Operable parts shall be operable with one hand and shall not require tight grasping, pinching or twisting of wrist.
   - The CBC references *State Fire Marshall Standard 12-10-2* which contains specific requirements for egress door hardware.
   - Located 34" – 44" above finish floor

e. **Opening Force:**
   - Interior and Exterior hinged doors, sliding or folding doors: 5 lb. max.
   - Fire doors: 15 lb. max.

f. **Kick Plate:** Bottom 10" high smooth surface on the push side of door or gate.

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**DOOR HARDWARE AND MOUNTING HEIGHT**

**MINIMUM DOOR CLEAR WIDTH**
TYPICAL LOCATION AND INFORMATION FOR DOOR HARDWARE

- Door Closers Shall Be Adjusted So That From An Open Position Of 90° The Time Required To Move The Door To A Position Of 12° From The Latch Is 5 Seconds Minimum.
- Door Spring Hinges Shall Be Adjusted So That From The Open Position Of 70°, The Door Or Gate Shall Move To The Closed Position In 1.5 Seconds Minimum.
- Interior & Exterior Door Opening Force: 5 lbs Max
- Fire Door Shall Have a Opening Force of 15 lbs Max
- 60° Below FF For Standard Door Viewer
- 43° Below FF For ADA Door Viewer
- Operable Parts Shall Be Operable With One Hand And Shall Not Require Tight Grasping, Pinching, Or Twisting Of The Wrist. The Force Required To Activate Operable Parts Shall Be 5 Lbs Maximum.
- Surface Within 10" On The Push Side Are Required To Be Smooth -1/16" Of The Same Plane As The Other. Tempered Glass Doors Without Stiles And Having A Bottom Rail Or Shoe With The Top Leading Edge Tapered At 60° Minimum From The Horizontal Shall Not Be Required To Meet The 10" Bottom Smooth Surface Height Requirement.
- On the push side of swinging doors, the bottom surface of the door shall be smooth for the full width.
# Maneuvering Clearance at Swinging Doors and Gates

**Table 11B-404.2.4.1**

<table>
<thead>
<tr>
<th>Approach direction</th>
<th>Door or gate side</th>
<th>Minimum Maneuvering Clearance (Perpendicular to doorway)</th>
<th>Minimum Maneuvering Clearance (Parallel to doorway)</th>
</tr>
</thead>
<tbody>
<tr>
<td>From front</td>
<td>Pull</td>
<td>60 inches (1524 mm)</td>
<td>18 inches (457 mm)</td>
</tr>
<tr>
<td>From front</td>
<td>Push</td>
<td>48 inches (1219 mm)</td>
<td>0 inches (0 mm)</td>
</tr>
<tr>
<td>From hinge side</td>
<td>Pull</td>
<td>60 inches (1524 mm)</td>
<td>36 inches (914 mm)</td>
</tr>
<tr>
<td>From hinge side</td>
<td>Push</td>
<td>44 inches (1118 mm)</td>
<td>22 inches (559 mm)</td>
</tr>
<tr>
<td>From latch side</td>
<td>Pull</td>
<td>60 inches (1524 mm)</td>
<td>24 inches (610 mm)</td>
</tr>
<tr>
<td>From latch side</td>
<td>Push</td>
<td>44 inches (1118 mm)</td>
<td>24 inches (610 mm)</td>
</tr>
</tbody>
</table>

**Front Approach**

- Provide additional space if door is equipped with both a latch and a closer.
- Minimum clearances:
  - Pull side: 24" min.
  - Push side: 18" min.

**Hinge Approach**

- Minimum clearances:
  - Pull side: 36" min.
  - Push side: 54" min.
- Note: 48" minimum if door has both a latch and a closer.

**Latch Approach**

- Minimum clearances:
  - Pull side: 24" min.
  - Push side: 48" min.
- Note: 45" minimum if door has a closer.

**Door Located in a Recess or Alcove**

- Minimum clearances:
  - Push side: 8" min.

**Notes:**
1. Add 12 inches (305 mm) if closer and latch are provided.
2. Add 4 inches (102 mm) if closer and latch are provided.
4. Add 4 inches (102 mm) if closer is provided.
5. Add 5 inches (127 mm) at exterior side of exterior doors.

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2019 California Building Code - Section 11B-404
General Requirements for Doors and Landings
MANEUVERING CLEARANCE AT DOORWAY WITHOUT DOORS OR GATES.
MANUAL SLIDING DOORS AND MANUAL FOLDING DOORS

### TABLE 11B-404.2.4.2
MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS OR GATES, MANUAL SLIDING DOORS, AND MANUAL FOLDING DOORS

<table>
<thead>
<tr>
<th>Approach direction</th>
<th>Perpendicular to doorway</th>
<th>Parallel to doorway (beyond stop/latch side unless noted)</th>
</tr>
</thead>
<tbody>
<tr>
<td>From front</td>
<td>48 inches (1219 mm)</td>
<td>0 inches (0 mm)</td>
</tr>
<tr>
<td>From side 1</td>
<td>42 inches (1067 mm)</td>
<td>0 inches (0 mm)</td>
</tr>
<tr>
<td>From pocket/hinge side</td>
<td>42 inches (1067 mm)</td>
<td>22 inches (559 mm)</td>
</tr>
<tr>
<td>From stop/latch side</td>
<td>42 inches (1067 mm)</td>
<td>24 inches (610 mm)</td>
</tr>
</tbody>
</table>

1. Doorway with no door only.
2. Beyond pocket/hinge side.

**FIGURE 11B-404.2.4.2**
MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS
POWER-ASSISTED DOORS (CBC 11B-404.3)

a. **Control**: Sensing devices, push plates or vertical actuation bars shall be placed on both the interior and exterior sides of the doors (CBC 11B-404.2.9 Exception C).

b. **Height of Push Plate**: Two push plates shall be provided at each location.
   - Low Push Plate: centerline of plate shall be 7”-8” AFF
   - High Push Plate: centerline of plate shall be 30”-44” AFF

c. **Size of Push Plate**: 4” diameter min OR 4”x4” square plate with International Symbol of Accessibility.

d. **Maneuvering Clearance**: Shall comply with Section 11B-404.2.4

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THE MINIMUM CLEAR WIDTH FOR AUTOMATIC DOOR SYSTEMS IN A DOORWAY SHALL PROMOTE A CLEAR, UNOBSSTRUCTED OPENING OF 32” WITH ONE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.

1. **Exterior Powered Doors** shall be controlled on both the interior and exterior sides of the doors by sensing devices, push plates, vertical actuation bars or other similar operating devices complying with turning space, clear floor space, and reach ranges.
2. **Where push plates, vertical actuation bars or other similar operating devices are provided**, they shall be placed in a conspicuous location.
3. **See CBC and BHMA Standards for additional requirements**.

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EXAMPLE: EXTERIOR POWERED DOOR