Architectural Door Accessories

McKinney 80 Concealed Hinge 3D Adjustable

Hinge Arrangement

Two Hinges

Three Hinges

Four Hinges

“H” Min. = 80”

Load Capacity

See chart for minimum number of hinges required based on correct adjustment (all hinges carrying load), door width and door weight.

Door height minimum is 80”.

Door thickness minimum is 1-3/8”.

Note: Hinge spacing does not effect load capacity. The first door should always be checked before preparing more doors, if any. When installing with a door closer, at least 3 hinges are required, and reduce maximum door weight in chart by 30%.

<table>
<thead>
<tr>
<th>Hinges</th>
<th>Door Width</th>
<th>32&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>185 lb</td>
<td>176 lb</td>
<td>143 lb</td>
<td>132 lb</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>211 lb</td>
<td>198 lb</td>
<td>160 lb</td>
<td>149 lb</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>233 lb</td>
<td>220 lb</td>
<td>171 lb</td>
<td>158 lb</td>
<td></td>
</tr>
</tbody>
</table>

Hinge Dimensions (millimeters)

Milling Dimensions (millimeters)
**Installation**

1. Insert each hinge section marked “door” into door sockets created in milling. Hinges should be flush against door edge surface.

2. Secure hinge sections with two (2) M5-0.8x20mm metal screws or 35mm PHWS wood screws provided in screw packet.

3. Set door on frame by inserting each loose hinge section into socket created in milling.

4. Secure each hinge with two (2) M5-0.8x20mm metal screws or 35mm PHWS wood screws provided in screw packet.

5. Make adjustments.

**Adjustment**

Adjustments to hinge are made with a 4mm Allen wrench. All hinges should carry load for proper installation.

**A. Vertical Adjustment** adjusts door up and down in frame (range +/-2mm): Ensure top adjustment screw (1a) is even with front surface of hinge. If not, unscrew it to this position. Adjust hinge by turning bottom adjustment screw (1b). After adjusted, tighten top adjustment screw (1a).

**B. Depth Adjustment** adjusts door in and out of frame (range +/-1mm): Depth adjustment and horizontal adjustment take place simultaneously. Adjust hinge by alternately turning both screws (2).

**C. Horizontal Adjustment** adjusts door left and right in frame (range +/-2mm): Depth adjustment and horizontal adjustment take place simultaneously. Adjust hinge by alternately turning both screws (2).