Post Anchors are used to secure wood posts to concrete footings. These post anchors also provide moisture damage protection and feature a 1" stand-off plate to elevate wood posts above concrete surfaces as required by building code.

**PAE** – 2-sided post anchors with high uplift and bearing capacity

**PA** – High capacity utilizing 4-sided design

**PAU** – Higher uplift resistance and optional bolt fastening to post

**Materials:** See chart

**Finish:** G90 galvanizing, PA66ER-TZ - G-185 galvanizing

**Options:** See chart for Corrosion Finish Options

**Codes:** See chart for code references

IRC R317.1.4, IBC 2304.12.2.2,
IRC R407.3, IBC 2304.10.7

**Installation:**
- Use all specified fasteners. Install with supplied washer.
  See Product Notes, page 18.
- Anchor bolts and nails are not furnished.
- Not recommended for fence posts or other unrestrained (not fixed or fastened at top) applications. These anchors are not designed to resist overturning (moment) loads.
- Anchor bolt installation – place specified diameter anchor bolt at desired location with minimum 4" embedment into minimum 2,500 psi concrete. A minimum 2" edge distance from the outermost edge of the post base to the edge of the concrete is required to achieve allowable loads.
- For cured concrete or retrofit installations – use specified diameter threaded rod with MiTek’s CIA-EA or CIA-GEL 7000-C adhesive epoxy, following installation instructions. Contact MiTek Engineering for further information on selecting the proper epoxy.
## PA / PAE / PAU Post Anchors

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<tr>
<th>Post/Column Size</th>
<th>MiTek USP Stock No.</th>
<th>Ref. No.</th>
<th>Base</th>
<th>Stand-off Plate</th>
<th>W</th>
<th>H</th>
<th>L</th>
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<th>Uplift</th>
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</table>

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
2) All bolts shall meet or exceed the specifications of ASTM A 307.
3) Allowable loads are based on the use of either nails or bolts; nail and bolt values cannot be combined.
4) NAILS: 16d nails are 0.162" dia. x 3-1/2" long.

New products or updated product information are designated in blue font.

**Corrosion Finish**
- Stainless Steel
- Gold Coat
- HDG
- Triple Zinc

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RPB-TZ Retrofit Post Base

RPB-TZ post base attaches 4x4 or larger wood posts to concrete or wood surfaces after the post is in place. Can be installed with 1 or 2 RPB-TZs (single or double). Post may also be installed on our CPB composite post base product which provides a 1” stand off as required in untreated wood installations. Installs with concrete screws, so no more mis-installed, mis-located anchor bolts!

Materials: 12 gauge
Finish: G-185 galvanizing

Installation:
• MiTek’s WS structural wood screws and screw anchors are not included with RPB bases.
• Not recommended for fence posts or other unrestrained (not fixed or fastened at top) applications. These anchors are not designed to resist overturning (moment) loads.

• Concrete Installation:
  1. Place RPB-TZ over one corner of post flush to both concrete and post surfaces and mark hole locations in concrete. Place aside.
  2. Drill holes for concrete screws using appropriate bit and hammer drill.
  3. Place RPB-TZ in position and install with specified screw anchors as listed in table below.
  4. Repeat for RPB-TZ on other side of post for double installations.

• Wood-to-Wood Installation:
  1. Place RPB-TZ over one corner of post flush to wood base and post surfaces.
  2. Install all specified MiTek WS structural wood screws as listed in the table below.
  3. Repeat for RPB-TZ on other side of post for double installations.

<table>
<thead>
<tr>
<th>Steel Code</th>
<th>Qty of RPBs</th>
<th>Wood Screw</th>
<th>Screw Anchor</th>
<th>DF/SP Allowable Loads (Lbs.)</th>
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<td>WS3</td>
<td>Tapper+</td>
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<td>1</td>
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<td>Tapper+</td>
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<td>WS15 or WS3</td>
<td>Tapper+</td>
<td>1470 (160%) 710 (160%) 495 (160%)</td>
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<td></td>
<td>2</td>
<td>WS15 or WS3</td>
<td>Tapper+</td>
<td>2295 (160%) 990 (160%) 990 (160%)</td>
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</tbody>
</table>

1) Allowable loads are for DF/SP 4x4, 6x6, or larger posts. For SPF/HF loads, multiply the allowable load by 0.86.
2) Use DeWalt 3/8” x 2-1/2” Screw-Bolt™+ screw anchor; or equal, installed in accordance with manufacturer’s specification. Screw anchors are not supplied.
3) Use Powers 1/4” x 1-3/4” Tapper+ concrete screw anchor (not supplied); or equal, installed in accordance with manufacturer’s specification.
4) When installing connectors in pairs, the post must be a minimum of 2-1/2” from the edge of the concrete.
5) Allowable loads have been increased 60% for wind and seismic loads; no further increase shall be permitted.
6) Concrete compressive strength shall be 2,500 psi or greater at 28 days.
7) SP framing base shall be at least 1-1/2” thick.
8) MiTek’s WS structural wood screws and DeWalt screw anchors should be used only in exterior dry and non-corrosive environments.
9) Allowable uplift for single RPB-TZ using WS3 structural wood screws with Screw-Bolt™+ screw anchors for concrete base with post 2-1/2” from concrete edge is 1,525 lbs.
10) MiTek’s WS structural wood screws and DeWalt screw anchors should be used only in interior dry and non-corrosive environments.
11) Use MiTek’s WS15-EXT or WS3-EXT structural wood screws when installing to treated wood.
**WAS / WE Wet Post Anchors**

**WAS** – A formed base providing a 1" stand-off with high bearing capacity.

**WE** – A formed, one-piece design. Includes embossing for additional lateral strength.

**Materials:** See chart

**Finish:** G90 galvanizing

**Options:** See chart for Corrosion Finish Options

**Codes:** IBC, FL, LA

IRC R317.1.4, IBC 2304.12.2.2,

IRC R407.3, IBC 2304.10.7

**Installation:**
- Use all specified fasteners. See Product Notes, page 18.
- Insert into wet concrete after the pour. For the **WE**, embed the anchor so that the base plate is flush with the surface of the concrete. For the **WAS**, embed the anchor until the concrete surface meets the bottom edge of the stand-off base legs. This will provide a 1" stand-off where required.
- Not recommended for fence posts or other unrestrained (not fixed or fastened at top) applications. These anchors are not designed to resist overturning (moment) loads.

### Typical WAS installation

- **Post Size**: 4 x 4, 4 x 6, 6 x 6, 6 x 6 Rough
- **Steel Gauge**: WB
- **Dimensions (in)**: W1, W2, H1, H2
- **Fastener Schedule**: 16d
- **Allowable Loads (Lbs.)**: UNF/SP1, 160%, F1, 160%, F2, 160%
- **Corrosion Finish**: HDG, Triple Zinc, Stainless Steel, Gold Coat

### Typical WE installation

- **Post Size**: 4 x 4, 4 x 6, 6 x 6, 6 x 6 Rough
- **Steel Gauge**: WE
- **Dimensions (in)**: W1, W2, H1, H2
- **Fastener Schedule**: 16d
- **Allowable Loads (Lbs.)**: UNF/SP1, 160%, F1, 160%, F2, 160%
- **Corrosion Finish**: HDG, Triple Zinc, Stainless Steel, Gold Coat

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1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

2) Allowable loads are based on the use of either nails or bolts; nail and bolt values cannot be combined.

3) H2 is minimum embedment length of anchor into concrete.

4) Minimum concrete strength fc = 2,500 psi.

5) All bolts shall meet or exceed the specifications of ASTM A 307.

6) **NAILS:** 16d nails are 0.162" dia. x 3-1/2" long.
D Post Anchors

Secures nominal sized posts to wood surfaces for light-duty applications.

**Materials:** 18 gauge

**Finish:** G90 galvanizing; D44-TZ & D46R-TZ - G-185 galvanizing

**Options:** See chart for Corrosion Finish Options

**Codes:** IBC, FL, LA

**Installation:**

- Use all specified fasteners. See Product Notes, page 18.
- **Not recommended for fence posts or other unrestrained** (not fixed or fastened at top) **applications. These anchors are not designed to resist overturning (moment) loads.**
- While D series post anchors offer lateral and uplift resistance, they are not recommended as a primary means of anchorage for posts in railings.

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1) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

2) **NAILS:** 16d nails are 0.162” dia. x 3-1/2” long.

New products or updated product information are designated in **blue font**.

**Corrosion Finish**

- Stainless Steel
- Gold Coat
- HDG
- Triple Zinc