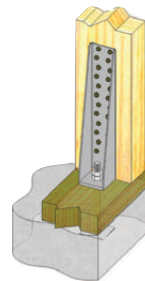


Engineered for high capacity with minimum deflection and low eccentricity.

Materials: See chart
Finish: USP primer
Codes: ER-0200



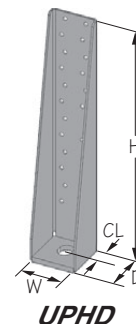
Typical UPHD installation

Installation:

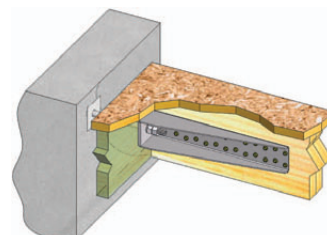
- Use all specified fasteners. See Product Notes, page 11.
- Place holdown over anchor bolt and drive screws into post.
- Tighten anchor bolt nuts finger tight snug to base, plus 1/3 to 1/2 additional turns with a wrench. To prevent loosening of the anchor nut during critical loading, use a locking nut or tighten a second nut over the first to lock nuts in place.
- Holdown may be installed off of the plate with no load reduction.
- Post may be shimmed provided the shim acts as a single unit with the post. Holdown fasteners specified shall not be considered to attach shim to post. Shim shall be a structural material equal or better than the post material. Consult a designer or an engineer of record for appropriate fastening of shim.

Alternate installations:

- Drill hole in concrete or masonry and insert retrofit anchor (i.e. epoxy anchor) capable of resisting uplift and lateral loading.
- Place holdown over anchor bolt and drive screws into post.
- Tighten anchor bolt nuts finger tight snug to base, plus 2-3 additional turns with a wrench. To prevent loosening of the anchor nut during critical loading, use a locking nut or tighten a second nut over the first to lock nuts in place.
- Post may be shimmed provided the shim acts as a single unit with the post. Holdown fasteners specified shall not be considered to attach shim to post. Shim shall be a structural material equal or better than the post material. Consult a designer or an engineer of record for appropriate fastening of shim.



UPHD



Typical UPHD concrete wall installation

| USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | Fastener Schedule | | Allowable Tension Loads (Lbs.) ^{1,5,7} | | | Code Ref. |
|---------------|-----------------------------|-------------|------------|--------|-------|-------|-------------------------------|----------------------------------|---|-------------------------------|-------|-----------|
| | | | W | H | D | CL | Anchor Bolt Dia. ² | WS3 Wood Screws ⁶ Qty | DF-L / SP | | S-P-F | |
| | | | | | | | | | 160% | Δ (in) at 160% ^{3,5} | 160% | |
| UPHD8 | HDQ8-SDS3 | 10 | 3-1/4 | 17-1/4 | 3-1/8 | 1-3/8 | 7/8 | 24 | 9165 | 0.075 | 7695 | 20 |
| UPHD9 | HDU11-SDS2.5 | 10 | 3-1/4 | 17-1/4 | 3-1/2 | 1-1/2 | 1 | 24 | 11270 | 0.057 | 9465 | |
| UPHD11 | HHDQ11-SDS2.5 | 7 | 3 | 15-1/8 | 3-1/2 | 1-1/2 | 1 | 24 | 14395 | 0.077 | 12090 | |
| UPHD14 | HDU14-SDS2.5, HHDQ14-SDS2.5 | 7 | 3 | 18-3/4 | 3-1/2 | 1-1/2 | 1 | 30 | 16695 | 0.082 | 14020 | |

1) Allowable loads have been increased 60% for wind and seismic loads; no further increase shall be permitted.
2) The designer must specify anchor bolt type, length, and embedment.
3) Deflections are derived from static, monotonic load tests of devices connected to DF-L wood members with specified fasteners.
4) The designer shall consider the effect of compression, bearing, tension, and combined bending due to device eccentricity when applicable.
5) The UPHD may be elevated off the sill.
6) WS3 wood screws are 1/4" x 3" and are included with UPHD models.
7) Minimum post thickness is 3" or greater. Consult USP for installations less than 3".
New products or updated product information are designated in **bold font**.