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Reference numbers shown throughout the charts in this catalog are part numbers which may be more familiar to customers in various regions of the United States. These are included for the convenience of our new customers who have recently switched from a competitor's product line to USP.

The reference numbers in this catalog are for general application comparison only and should not be used as a substitution tool. The user is responsible to compare specific load values, fastener schedules, material specifications, and other factors to determine suitability of use for any particular product.

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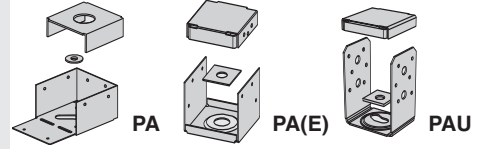
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## POST ANCHORS..... PAGE 55

- **PA, PA(E), & PAU Series**

Adjustable wood to concrete post base with 1" stand-off fastens with anchor bolt.



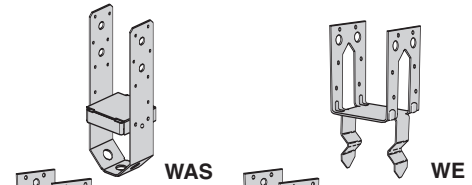
## WET POST ANCHORS..... PAGE 56

- **WAS Series**

Wood-to-concrete post base with 1" stand-off installs in wet concrete.

- **WE Series**

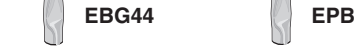
Wood-to-concrete post base installs in wet concrete.



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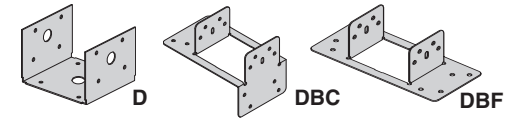
Elevated post bases with tube support allowing for up to 1" clearance.



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- **D Series**

Light capacity post anchor nails to post and base.



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- **CBSQ Series**

High capacity column base with 1" stand-off fastens to column with WS Wood Screws.

- **CBS Series**

High capacity column base with 1" stand-off bolts to column.

- **KCBQ Series**

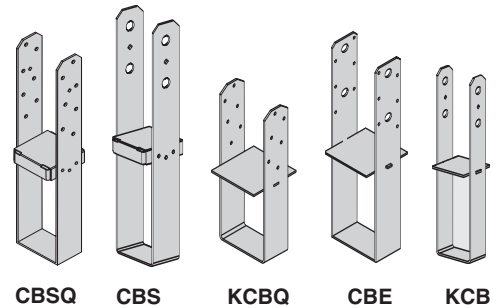
High capacity column base fastens to column with WS Wood Screws.

- **CBE Series**

Light capacity column base bolts or nails to column.

- **KCB Series**

High capacity column base bolts to column.



## POST CAPS ..... PAGES 61-63

- **EPCM & PCM Series**

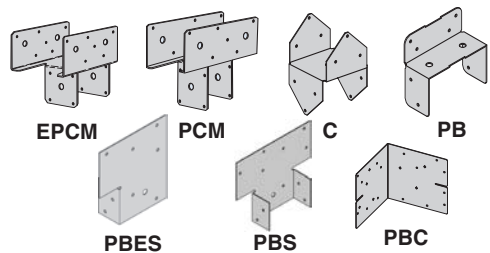
Medium-capacity post to beam connector.

- **C, PB, PBES, & PBS Series**

Light-capacity post to beam connector.

- **PBC Series**

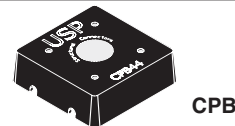
Light-capacity corner post to beam connector.



## COMPOSITE POST BASES ..... PAGE 63

- **CPB Series**

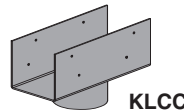
Elevated post base to avoid moisture from ground contact.



## LALLY COLUMN CAPS ..... PAGE 63-64

- **KLCC Series**

Connects lally columns to beams.



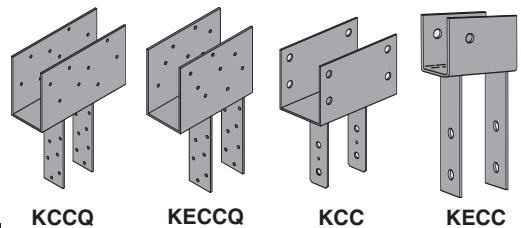
## COLUMN CAPS ..... PAGES 64-66

- **KCCQ & KECCQ Series**

Heavy-capacity column to beam connector fastens to column and beam with WS Wood Screws.

- **KCC & KECC Series**

Heavy-capacity column to beam connector bolts to column and beam.



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.

**PA(E)** – 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, PA\_E-GC models - Gold Coat

**Options:** PA44, PA46, PA66, PA44E, PA46E, PA66E, PAU44, PAU46, PAU66 & **PAU88** are available in Triple Zinc. To order, add TZ to stock number, as in **PA44-TZ**.

**Codes:** ICC-ES ESR-1178, NER 530 & NER 608, FL569R-1, FL821, FL822, L.A. City RR 25337 & RR 25357, Dade County, FL 03-0508.05 — PAU44 & PAU66

AVAILABLE IN  
**GOLD  
COAT**

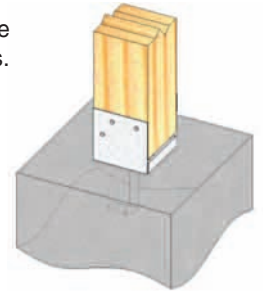
**Installation:**

- Use all specified fasteners. Install with supplied washer. See Product Notes, page 16.
- 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** – position 5/8" diameter anchor bolt at desired location with minimum 4" embedment into 2000 psi concrete. A minimum 2" edge distance is required to achieve allowable loads.
- **For hardened concrete or retrofit installations** – use 5/8" diameter threaded rod with USP's CIA-EA or CIA-GEL 7000 adhesive, follow installation instructions.

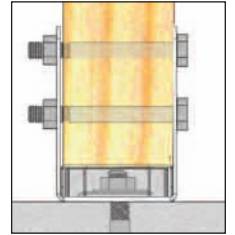
The codes specify that non decay resistant columns exposed to weather or located in basements or cellars must be supported by piers or metal pedestals projecting 1-inch above floor or finished grade. **IRC R319.1.4, IBC 2304.11.2.6, UBC 2306.5**

The codes specify that structural columns shall be fastened to resist net induced uplift forces and prevent lateral displacement at the bottom end. **IRC R407.3, IBC 2304.9.7, UBC 2314**

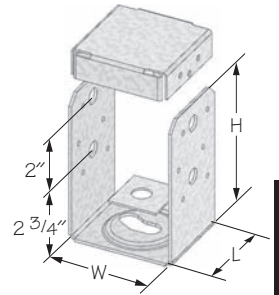
**Bolts must be ordered separately. See page 26 for available sizes.**



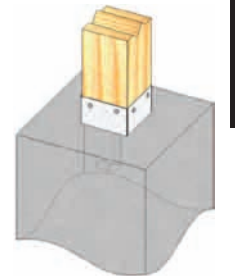
Typical PA44E installation



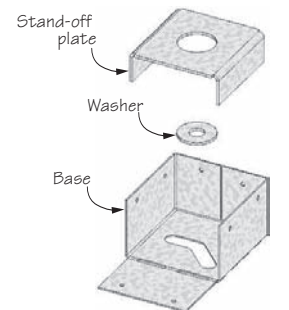
PAU cross-section



PAU



Typical PA installation



PA

Post/ Column Size	USP Stock No.	Ref. No.	Steel Gauge		Dimensions			Fastener Schedule <sup>2,3</sup>			Allowable Loads (Lbs.) <sup>4</sup>				
			Base	Stand-off Plate	W	H	L	Anchor Bolt	Post		DF-L / SP				
									Nails	Bolts	Bearing	Uplift <sup>1</sup>			
												Nails	Bolts	100%	133%
4 x 4	PA44	AB44	18	12	3-9/16	2-1/8	3-1/2	(1) 1/2	(8) 16d	---	5135	380	380	---	---
4 x 4 Rough	PA44R	AB44R	18	12	4-1/16	3-1/2	4	(1) 1/2	(12) 16d	---	5135	380	380	---	---
4 x 6	PA46	AB46	18	12	3-9/16	3-1/2	5-1/2	(1) 1/2	(14) 16d	---	6285	505	505	---	---
4 x 6 Rough	PA46R	AB46R	18	10	4-1/16	3-1/2	6	(1) 1/2	(14) 16d	---	6285	505	505	---	---
6 x 6	PA66	AB66	18	12	5-9/16	3-1/2	5-1/2	(1) 1/2	(16) 16d	---	6950	470	470	---	---
6 x 6 Rough	PA66R	AB66R	18	12	6-1/16	3-1/4	6-1/16	(1) 1/2	(16) 16d	---	6950	470	470	---	---
7-1/4 x 7-1/4	<b>PA725</b>	---	16	12	7-5/16	4	7-5/16	(1) 1/2	(16) 16d	---	6950	555	555	---	---
8 x 8	PA88	---	18	12	7-9/16	3-5/8	7-3/8	(1) 1/2	(16) 16d	---	7540	650	650	---	---
8 x 8 Rough	PA88R	---	18	12	8-1/16	3-5/8	8	(1) 1/2	(16) 16d	---	7540	650	650	---	---
4 x 4	PA44E	ABE44	18	16	3-9/16	3-1/2	3-1/2	(1) 1/2	(6) 16d	---	6775	990	990	---	---
	<b>PA44E-GC</b>	---							(6) N16C-GC						
4 x 6	PA46E	ABE46	18	12	3-9/16	3-1/2	5-1/2	(1) 5/8	(8) 16d	---	13815	825	825	---	---
	<b>PA46E-GC</b>	---							(8) N16C-GC						
6 x 6	PA66E	ABE66	14	12	5-1/2	3-1/2	5-1/2	(1) 5/8	(8) 16d	---	16005	1060	1060	---	---
	<b>PA66E-GC</b>	---							(8) N16C-GC						
4 x 4	PAU44	ABU44	12	16	3-9/16	5-7/16	3	(1) 5/8	(12) 16d	(2) 1/2	6775	2350	2535	2265	2265
4 x 6	PAU46	ABU46	10	12	3-9/16	6	5	(1) 5/8	(12) 16d	(2) 1/2	13815	2350	2535	2265	2265
6 x 6	PAU66	ABU66	10	12	5-1/2	6	5	(1) 5/8	(12) 16d	(2) 1/2	16005	2380	2380	2265	2265
8 x 8	PAU88	ABU88	12	12	7-1/2	7-3/16	7-1/16	(2) 5/8	(14) 16d	---	24900	2780	3185	---	---
8 x 8 Rough	PAU88R	ABU88R	12	12	8-1/16	6-15/16	7-1/16	(2) 5/8	(14) 16d	---	24900	2780	3185	---	---

1) Uplift loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.  
 2) Minimum nail embedment shall be 1-5/8" for 16d nails and N16C-GC.  
 3) All bolts shall meet or exceed the specifications of ASTM A 307.  
 4) Allowable loads are based on the use of either nails or bolts; nail and bolt values cannot be combined.

New products or updated product information are designated in red.

**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

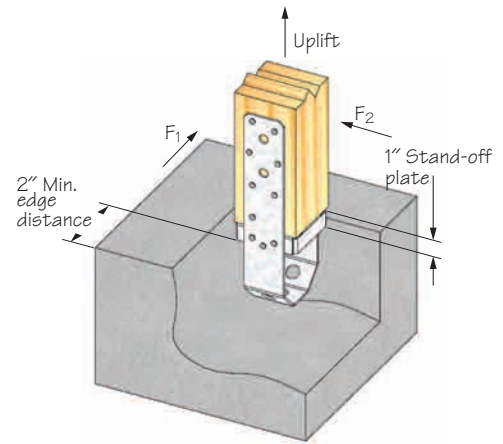
**Options:** WAS44, WAS46, WAS66, WE44, WE46, & WE66 are available in Triple Zinc. To order, add TZ to stock number, as in **WAS44-TZ**.

**Codes:** NER 530 & NER 608, ICBO 2039, FL821, FL822, L.A. City RR 23888 & RR 25337

**Installation:**

- Use all specified fasteners. See Product Notes, page 16.
- 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.

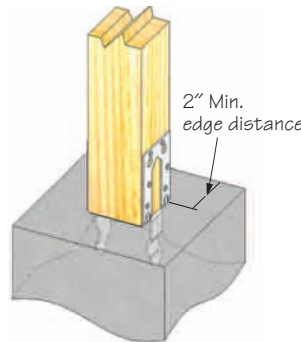
**• Not recommended for fence posts or other unrestrained (not fixed or fastened at top) applications. These anchors are not designed to resist overturning (moment) loads.**



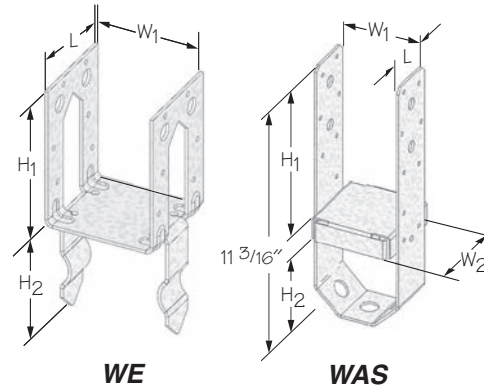
**Typical WAS installation**

The codes specify that non decay resistant columns exposed to weather or located in basements or cellars must be supported by piers or metal pedestals projecting 1-inch above floor or finished grade.  
**IRC R319.1.4, IBC 2304.11.2.6, UBC 2306.5**

The codes specify that structural columns shall be fastened to resist net induced uplift forces and prevent lateral displacement at the bottom end.  
**IRC R407.3, IBC 2304.9.7, UBC 2314**



**Typical WE installation**



**WE**

**WAS**

Post Size	USP Stock No.	Ref. No.	Steel Gauge		Dimensions					Fastener Schedule		Allowable Loads (Lbs.) <sup>2</sup>												
			Base	Strap	W1	W2	H1	H2 <sup>3</sup>	L	Nails <sup>4</sup>	Bolts <sup>6</sup>	DF-L / SP						Uplift <sup>1</sup>						
												F1		F2		Bearing	Uplift <sup>1</sup>							
												Nails	Bolts	Nails	Bolts		100%	Nails		Bolts				
133%	160%	133%	160%	133%	160%	133%	160%	100%	133%	160%	133%	160%												
4 x 4	WE44	PB44	12	12	3-1/2	---	4-3/4	3-3/8	3-1/4	(12) 16d	(2) 1/2	1180	1180	1020	1020	1135	1135	910	910	---	1405	1405	1430	1430
4 x 4 Rough	WE44R	PB44R	12	12	4	---	5	3-5/8	3-3/8	(12) 16d	---	1180	1180	---	---	1135	1135	---	---	---	1405	1405	---	---
4 x 6	WE46	PB46	12	12	5-1/2	---	4-3/4	3-3/8	3-1/4	(12) 16d	(2) 1/2	1180	1180	1020	1020	1135	1135	910	910	---	1405	1405	1430	1430
4 x 6 Rough	WE46R	---	12	12	6	---	5	3-5/8	3-3/8	(12) 16d	---	1180	1180	---	---	1135	1135	---	---	---	1405	1405	---	---
6 x 6	WE66	PB66	12	12	5-1/2	---	5	3-5/8	5-3/8	(12) 16d	---	---	---	---	2385	2860	---	---	---	2100	2100	---	---	
6 x 6 Rough	WE66R	PB66R	12	12	6	---	5	3-5/8	5-3/8	(12) 16d	---	---	---	---	2385	2860	---	---	---	2100	2100	---	---	
4 x 4	WAS44	PBS44A	16	14	3-9/16	3-1/2	6-3/4	3-1/2	2-1/4	(14) 16d	(2) 1/2	1405	1405	1415	1415	1300	1300	1300	1300	6775	2600	2600	2600	2600
4 x 6	WAS46	PBS46	12	14	3-9/16	5-1/2	6-3/4	3-1/2	2-1/4	(14) 16d	(2) 1/2	1405	1405	1485	1485	1300	1300	1300	1300	13815	2600	2600	2600	2600
6 x 6	WAS66	PBS66	12	12	5-1/2	5-1/2	6-3/4	5	2-1/4	(14) 16d	(2) 1/2	2100	2100	2165	2165	1540	1540	1540	1540	16005	2745	3295	3640	4370

1) Uplift loads have been increased 33-1/3% or 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 nail embedment shall be 1-5/8" for 16d nails.  
 5) Minimum concrete compressive strength shall be 2,000 psi at 28 days.  
 6) All bolts shall meet or exceed the specifications of ASTM A 307.

**Bolts must be ordered separately. See page 26 for available sizes.**

These post bases allow installers to pre-align posts and preset post heights above concrete floors or footings. By eliminating post-to-concrete contact, moisture damage is reduced.

**EPB** – Welded and primed.

**EBG44** – Galvanized for added corrosion resistance.

**Materials:** EPB – 14 gauge tube; 14 gauge steel U-bracket  
EBG44 – 14 gauge tube; 16 gauge steel U-bracket

**Finish:** EPB – USP primer;  
EBG44 – G90 galvanizing

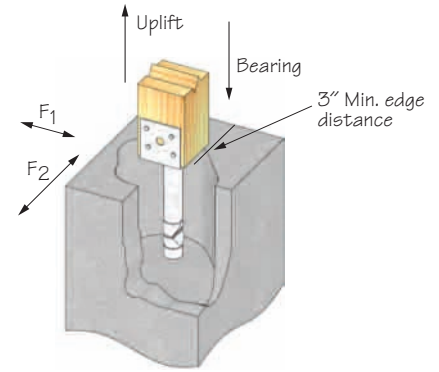
**Options:** EBG44 is available in Triple Zinc. To order, add **TZ** to stock number, as in **EBG44-TZ**. EPB4408 is available in Hot-dip galvanized. To order, add **HDG** to stock number, as in **EPB4408-HDG**.

**Codes:** NER 505, L.A. City RR 25303, FL816

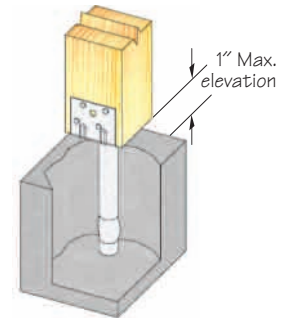
**Patents:** #5,456,441— **EBG44**

**Installation:**

- Use all specified fasteners. See Product Notes, page 16.
- These post bases allow installers to pre-align posts and preset post heights above concrete floors or footings. By eliminating post-to-concrete contact, moisture damage is reduced.



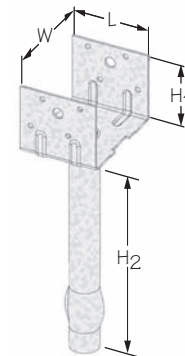
**Typical EPB installation**



**Typical EBG44 installation**

The codes specify that non decay resistant columns exposed to weather or located in basements or cellars must be supported by piers or metal pedestals projecting 1-inch above floor or finished grade. **IRC R319.1.4, IBC 2304.11.2.6, UBC 2306.5**

The codes specify that structural columns shall be fastened to resist net induced uplift forces and prevent lateral displacement at the bottom end. **IRC R407.3, IBC 2304.9.7, UBC 2314**



**EBG/EPB similar**

Post Size	USP Stock No.	Ref. No.	Dimensions				Fastener Schedule <sup>3</sup>	Allowable Loads (Lbs.)						
			W	L	H1	H2		DF-L / SP						
								F1 <sup>1</sup>		F2 <sup>1</sup>		Bearing	Uplift <sup>2</sup>	
								133%	160%	133%	160%		100%	133%
4 x 4	EPB4408	EPB44	3-9/16	3	3	8	(8) 16d	1115	1115	1075	1075	3045	1140	1140
4 x 4	EPB4412	EPB44-12	3-9/16	3	3	12	(8) 16d	1115	1115	1075	1075	3045	1140	1140
4 x 6	EPB4608	EPB46	3-9/16	5	3	8	(12) 16d	2270	2330	1695	1695	3045	1560	1560
4 x 6	EPB4612	EPB46-12	3-9/16	5	3	12	(12) 16d	2270	2330	1695	1695	3045	1560	1560
6 x 6	EPB6608	EPB66	5-9/16	5	3-3/16	8	(12) 16d	2270	2330	1695	1695	4665	1560	1560
6 x 6	EPB6612	EPB66-12	5-9/16	5	3-3/16	12	(12) 16d	2270	2330	1695	1695	4665	1560	1560
4 x 4	EBG44	EPB44A	3-9/16	2-3/4	2-3/8	7-1/2	(8) 16d	1100	1100	1180	1180	2485	1085	1085

1) Lateral loads (F1 and F2) are for conditions where pipe extends no more than 1" above the concrete surface.  
2) Uplift Loads have been increased 33-1/3% or 60% for wind and seismic loads; no further increase shall be permitted.  
3) Minimum nail embedment shall be 1-5/8" for 16d nails.

**D series** – Secures nominal sized posts to wood surfaces for light-duty applications.

**DBC44** – Secures 4 x 4 nominal corner posts.

**DBF44** – Secures 4 x 4 nominal posts in flush applications to decking.

**Materials:** 18 gauge

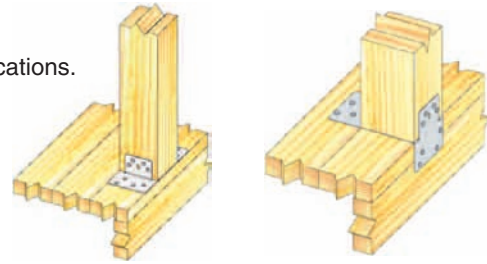
**Finish:** G90 galvanizing

**Options:** D44, D46, & D66 are available in Triple Zinc.  
To order, add TZ to stock number, as in **D44-TZ**.

**Codes:** ICBO 2039, L.A. City RR 23888

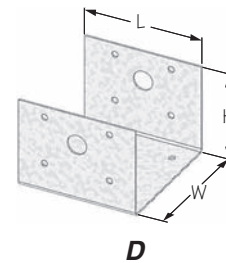
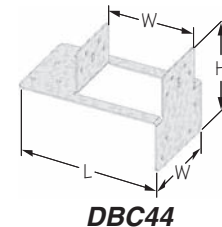
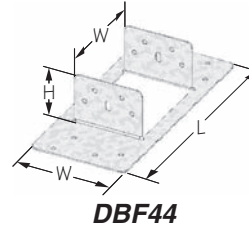
**Installation:**

- Use all specified fasteners. See Product Notes, page 16.
- **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 some lateral and uplift resistance, they are not recommended as a primary means of anchorage for posts in railings. They may be used only for intermediate posts between fully anchored corner / end posts in rail systems.



Typical **DBF44** installation

Typical **DBC44** installation



Post Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule <sup>1</sup>		Allowable Loads (Lbs.)					
				W	H	L	Post	Base	DF-L / SP					
									F1		F2		Uplift	
133%	160%	133%	160%	133%	160%									
4 x 4	DBC44	---	18	3-5/8	3-7/8	5-3/4	(8) 10d	(8) 10d	---	---	---	---	---	---
4 x 4	DBF44	---	18	3-9/16	1-7/8	7-3/4	(8) 10d	(8) 10d	---	---	---	---	---	---
4 x 4	D44	BC40	18	3-9/16	2-1/2	3-3/8	(8) 16d	(4) 16d	730	875	730	875	730	875
4 x 4 Rough	D44R	BC40R	18	4	3	3-3/4	(8) 16d	(4) 16d	730	875	730	875	730	875
4 x 6	D46	BC460	18	3-9/16	3	5-3/8	(10) 16d	(5) 16d	910	1020	910	1095	910	1095
4 x 6 Rough	D46R	---	18	4	3	5-3/8	(10) 16d	(5) 16d	910	1020	910	1095	910	1095
6 x 6	D66	BC60	18	5-1/2	3	5-3/8	(10) 16d	(5) 16d	910	1020	910	1095	910	1095
6 x 6 Rough	D66R	BC60R	18	6	3	5-3/8	(10) 16d	(5) 16d	910	1020	910	1095	910	1095
8 x 8	D88	---	18	7-1/2	3	7-3/8	(12) 16d	(5) 16d	910	1020	910	1095	910	1095
8 x 8 Rough	D88R	---	18	8	3	7-3/8	(12) 16d	(5) 16d	910	1020	910	1095	910	1095

1) Minimum nail embedment shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.

## COLUMN BASES – CBSQ SERIES

These column bases install using USP's WS2-HDG Wood Screws, reducing installation time and cost. Designed for high uplift in high wind or seismic applications. Includes a stand-off plate to protect the wood from ground contact moisture.

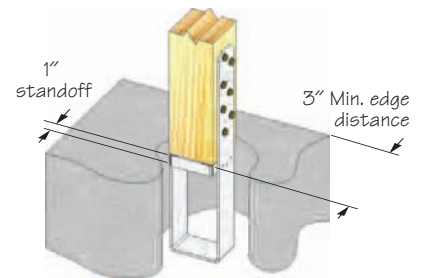
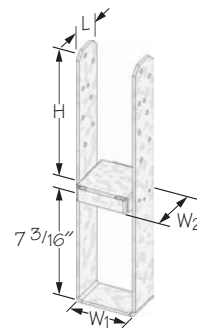
**Materials:** See chart

**Finish:** G-185 galvanizing

**Installation:**

- Use all specified fasteners. See Product Notes, page 16.
- WS2-HDG Wood Screws, 1/4" dia. x 2" long, are supplied with CBSQ Bases.
- All models require a minimum edge distance of 3".
- Embed the column base until the concrete surface meets the bottom edge of the stand-off plate.

**• Not recommended for fence posts or other unrestrained (not fixed or fastened at top) applications. These bases are not designed to resist overturning (moment) loads.**



**CBSQ44-TZ**

Typical **CBSQ44-TZ** installation

Column Size	USP Stock No.	Ref. No.	Steel Gauge		Dimensions				Fastener Schedule <sup>3,4</sup>	Allowable Loads (Lbs.) <sup>1</sup>		
			Strap	Base	W1	W2	H	L		DF-L / SP		
										Uplift <sup>2</sup>		
100%	133%	160%										
4 x 4	CBSQ44-TZ	CBSQ44-SDS2	10	16	3-9/16	3-1/2	8-3/4	2-1/4	(14) WS2-HDG	6775	5710	6855
4 x 6	CBSQ46-TZ	CBSQ46-SDS2	10	12	3-9/16	5-7/16	8-3/4	2-1/4	(14) WS2-HDG	13815	5710	6855
6 x 6	CBSQ66-TZ	CBSQ66-SDS2	10	12	5-1/2	5-7/16	8-3/4	3	(14) WS2-HDG	16005	5710	6855

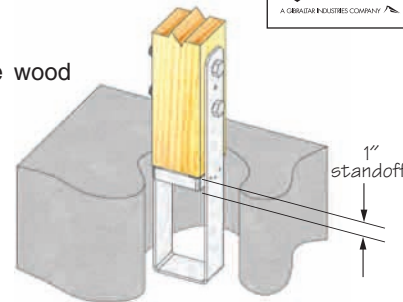
The codes specify that non decay resistant columns exposed to weather or located in basements or cellars must be supported by piers or metal pedestals projecting 1-inch above floor or finished grade. **IRC R319.1.4, IBC 2304.11.2.6, UBC 2306.5**

The codes specify that structural columns shall be fastened to resist net induced uplift forces and prevent lateral displacement at the bottom end. **IRC R407.3, IBC 2304.9.7, UBC 2314**

1) Allowable loads are based on 1997 NDS®.  
2) Uplift Loads have been increased 33-1/3% or 60% for wind and seismic loads, no further increase shall be permitted.  
3) WS2-HDG Wood Screws are 1/4" x 2" and are included with CBSQ Column Bases.  
4) Concrete compressive strength shall be 2,000 psi or greater at 28 days.

A heavy, riveted design, the CBS Column Bases include a stand-off plate to protect the wood column from ground contact moisture.

- Materials:** See chart
- Finish:** G90 galvanizing
- Options:** CBS44 & CBS66 are available in Hot-dip galvanized. To order, add *HDG* to stock number, as in **CBS44-HDG**.
- Codes:** NER 608, ICBO 2039, FL821



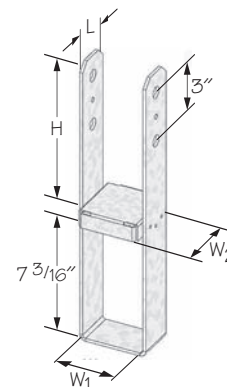
Typical CBS installation

**Installation:**

- Use all specified fasteners. See Product Notes, page 16.
- **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.**
- All models require a minimum edge distance of 3".
- Bolted models feature diamond holes for temporary nail fastening to facilitate drilling and bolting.
- Embed the column base until the concrete surface meets the bottom edge of the stand off plate.

The codes specify that non decay resistant columns exposed to weather or located in basements or cellars must be supported by piers or metal pedestals projecting 1-inch above floor or finished grade. **IRC R319.1.4, IBC 2304.11.2.6, UBC 2306.5**

The codes specify that structural columns shall be fastened to resist net induced uplift forces and prevent lateral displacement at the bottom end. **IRC R407.3, IBC 2304.9.7, UBC 2314**



CBS

**Bolts must be ordered separately. See page 26 for available sizes.**

Column Size	USP Stock No.	Ref. No.	Steel Gauge		Dimensions				Fastener Schedule <sup>2,3</sup>	Allowable Loads (Lbs.)		
			Strap	Base	W1	W2	H	L		DF-L / SP		
										Bearing	Uplift <sup>1</sup>	
4 x 4	CBS44	CBS44	10	16	3-9/16	3-1/2	8-3/4	2-1/4	(2) 5/8	6775	5525	5525
4 x 6	CBS46	CBS46	10	12	3-9/16	5-7/16	8-3/4	2-1/4	(2) 5/8	13815	5525	5525
6 x 6	CBS66	CBS66	10	12	5-1/2	5-1/2	8-3/4	3	(2) 5/8	16005	5605	6700

1) Uplift Loads have been increased 33-1/3% or 60% for wind and seismic loads, no further increase shall be permitted.  
 2) Bolts shall conform to ASTM A 307 or better.  
 3) Concrete compressive strength shall be 2,000 psi or greater at 28 days.

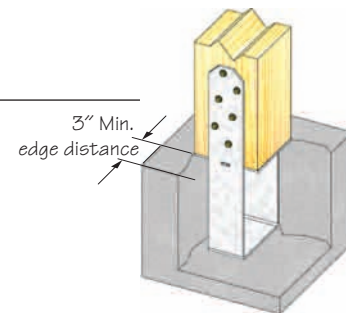
## COLUMN BASES – KCBQ SERIES

These column bases install using USP's WS Wood Screws, reducing installation time and cost. Wood screws provide a lower profile than bolts and maintain the wood cross section of the post. Designed for high uplift in high wind or seismic applications.

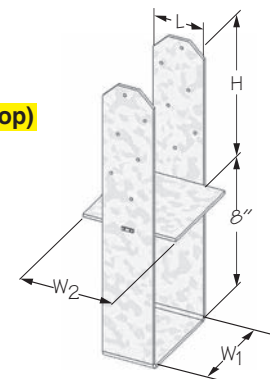
- Materials:** 7 gauge
- Finish:** G90 galvanizing
- Codes:** NER 532, ICBO 2725, FL819, L.A. City RR 25104

**Installation:**

- Use all specified fasteners. See Product Notes, page 16.
- WS2 Wood Screws, 1/4" dia. x 2" long, are supplied with KCBQ Column Bases.
- **Not recommended for fence posts or other unrestrained (not fixed or fastened at top) applications. These bases are not designed to resist overturning (moment) loads.**
- All models require a minimum edge distance of 3".
- Embed column base with bottom of base plate flush to concrete.



Typical KCBQ66 installation



KCBQ66

Column Size	USP Stock No.	Ref. No.	Steel Gauge		Dimensions				Fastener Schedule <sup>3,4</sup>	Allowable Loads (Lbs.) <sup>1</sup>	
			Strap	Base	W1	W2	H	L		DF-L / SP	
										Uplift <sup>2</sup>	
4 x 4	KCBQ44	CBQ44-SDS2	7	7	3-9/16	3-1/2	8-5/8	2	(12) WS2	5010	5535
4 x 6	KCBQ46	CBQ46-SDS2	7	7	3-9/16	5-1/2	8-5/8	2	(12) WS2	5010	5535
6 x 6	KCBQ66	CBQ66-SDS2	7	7	5-1/2	5-1/2	8-5/8	3	(12) WS2	5010	5535

1) Allowable loads are based on the 1997 NDS®.  
 2) Uplift loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.  
 3) WS2 Wood Screws are 1/4" dia. x 2" long and are included with KCBQ Column Bases.  
 4) Concrete compressive strength shall be 2,000 psi or greater at 28 days.

The codes specify that structural columns shall be fastened to resist net induced uplift forces and prevent lateral displacement at the bottom end. **IRC R407.3, IBC 2304.9.7, UBC 2314**

**CBE** – 12 gauge base for carports, patios, or other residential framing.

**KCB** – Provides high structural capacity and rugged performance.

**Materials:** See chart

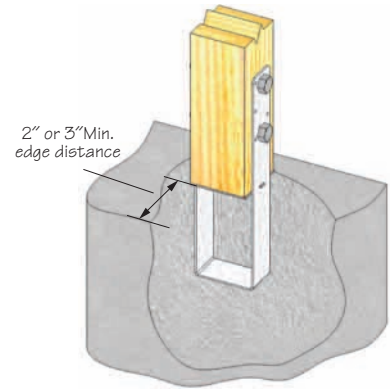
**Finish:** CBE & KCB (5/8" bolt models) – G90 galvanizing;  
KCB (3/4" bolt models) – USP primer

**Options:** KCB models available in rough/full sizes.  
KCB44, KCB46, KCB48, KCB66, KCB68, KCB88, KCB1010, &  
KCB1012 are available in Hot-dip galvanized. To order, add  
HDG to stock number, as in **KCB44-HDG**.

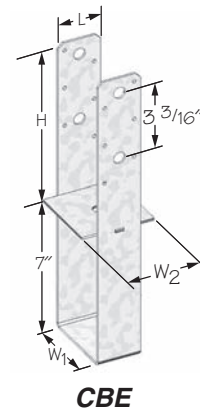
**Codes:** NER 530, FL822, LA City RR 25337

**Installation:**

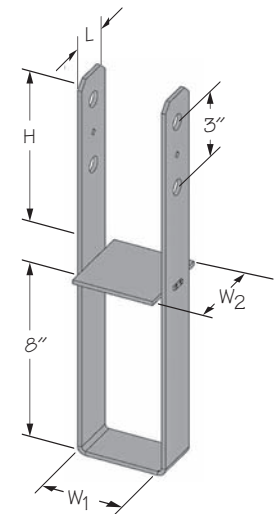
- Use all specified fasteners. See Product Notes, page 16.
- **Not recommended for fence posts or other unrestrained (not fixed or fastened at top) applications. These bases are not designed to resist overturning (moment) loads.**
- All models require a minimum edge distance of 3".
- Bolted models feature diamond holes for temporary nail fastening to facilitate drilling and bolting.
- Embed column base with bottom of base plate flush to concrete.



**Typical CBE installation**



**CBE**



**KCB**

Column Size	USP Stock No.	Ref. No.	Steel Gauge		Dimensions				Fastener Schedule <sup>2,3,4</sup>		Allowable Loads (Lbs.) <sup>5</sup>			
			Strap	Base	W1	W2	H	L	Bolts	Nails	DF-L / SP Uplift <sup>1</sup>			
											Bolts		Nails	
			133%	160%	133%	160%								
4 x 4	CBE44	LCB44	12	12	3-9/16	3-1/2	7-1/2	2	(2) 1/2	(12) 16d	3650	4380	2350	2820
4 x 4 Rough	CBE44R	LCB44R	12	12	4-1/16	3-1/2	7-1/2	2	(2) 1/2	(12) 16d	3645	4375	2350	2820
4 x 6	CBE46	LCB46	12	12	3-9/16	5-1/2	7-1/2	2	(2) 1/2	(12) 16d	3640	4370	2350	2820
6 x 6	CBE66	LCB66	12	12	5-1/2	5-1/2	7-1/2	2	(2) 1/2	(12) 16d	3635	4360	2350	2820
6 x 6 Rough	CBE66R	LCB66R	12	12	6	6	7-1/2	2	(2) 1/2	(12) 16d	3635	4360	2350	2820
4 x 4	KCB44	CB44	7	7	3-9/16	3-9/16	8-7/8	2	(2) 5/8	---	5910	7090	---	---
3-1/2 x 5-1/4	KCB45	---	7	7	3-9/16	5-3/8	8-7/8	2	(2) 5/8	---	5905	7085	---	---
4 x 6	KCB46	CB46	7	7	3-9/16	5-1/2	8-7/8	2	(2) 5/8	---	5900	7080	---	---
4 x 8	KCB48	CB48	7	7	3-9/16	7-1/2	8-7/8	2	(2) 5/8	---	5890	7070	---	---
5-1/4 x 5-1/4	KCB55	---	7	7	5-3/8	5-3/8	8-7/8	3	(2) 5/8	---	5910	7090	---	---
5-1/4 x 7	KCB57	---	7	7	5-3/8	7	8-7/8	3	(2) 5/8	---	5900	7080	---	---
6 x 4	KCB64	CB64	7	7	5-1/2	3-1/2	8-7/8	3	(2) 5/8	---	5915	7095	---	---
6 x 6	KCB66	CB66	7	7	5-1/2	5-1/2	8-7/8	3	(2) 5/8	---	5905	7085	---	---
6 x 8	KCB68	CB68	7	7	5-1/2	7-1/2	8-7/8	3	(2) 5/8	---	5900	7080	---	---
6 x 10	KCB610	CB610	7	7	5-1/2	9-1/2	8-7/8	3	(2) 5/8	---	5895	7075	---	---
6 x 12	KCB612	CB612	7	7	5-1/2	11-1/2	8-7/8	3	(2) 5/8	---	5890	7070	---	---
7 x 3-1/2	KCB74	CB7-1/8-4	3	7	7-1/8	3-1/2	9-3/4	3	(2) 3/4	---	8185	8185	---	---
7 x 5-1/2	KCB76	CB7-1/8-6	3	7	7-1/8	5-1/2	9-3/4	3	(2) 3/4	---	8185	8185	---	---
7 x 7	KCB77	CB7-1/8-7	3	7	7-1/8	7-1/8	9-3/4	3	(2) 3/4	---	8185	8185	---	---
8 x 6	KCB86	CB86	3	7	7-1/2	5-1/2	9-3/4	3	(2) 3/4	---	8185	8185	---	---
8 x 8	KCB88	CB88	3	7	7-1/2	7-1/2	9-3/4	3	(2) 3/4	---	8185	8185	---	---
8 x 10	KCB810	CB810	3	7	7-1/2	9-1/2	9-3/4	3	(2) 3/4	---	8185	8185	---	---
8 x 12	KCB812	CB812	3	7	7-1/2	11-1/2	9-3/4	3	(2) 3/4	---	8185	8185	---	---
10 x 10	KCB1010	CB1010	3	7	9-1/2	9-1/2	9-3/4	3	(2) 3/4	---	8185	8185	---	---
10 x 12	KCB1012	CB1012	3	7	9-1/2	11-1/2	9-3/4	3	(2) 3/4	---	8185	8185	---	---
12 x 12	KCB1212	CB1212	3	7	11-1/2	11-1/2	9-3/4	3	(2) 3/4	---	8155	8185	---	---
<b>Glulam Sizes</b>														
5-1/8 glulam	KCB5	---	3	7	5-1/4	specify	9-3/4	3	(2) 3/4	---	8185	8185	---	---
6-3/4 glulam	KCB7	---	3	7	6-7/8	specify	9-3/4	3	(2) 3/4	---	8185	8185	---	---
8-3/4 glulam	KCB9	---	3	7	8-7/8	specify	9-3/4	3	(2) 3/4	---	8185	8185	---	---

1) Uplift Loads have been increased 33-1/3% or 60% for wind and seismic loads, no further increase shall be permitted.  
2) All bolts shall meet or exceed the specifications of ASTM A 307.  
3) Minimum nail embedment shall be 1-5/8" for 16d nails.  
4) Concrete compressive strength shall be 2,000 psi or greater at 28 days.  
5) Allowable loads are based on the use of either nails or bolts; nail and bolt values cannot be combined.

**Bolts must be ordered separately. See page 26 for available sizes.**

The codes specify that structural columns shall be fastened to resist net induced uplift forces and prevent lateral displacement at the bottom end. **IRC R407.3, IBC 2304.9.7, UBC 2314**

**PCM** – Provides a positive connection for medium-duty, post-to-beam applications.

**EPCM** – End column caps.

**Materials:** See chart

**Finish:** G90 galvanizing

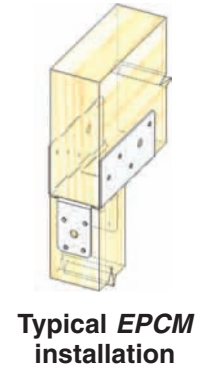
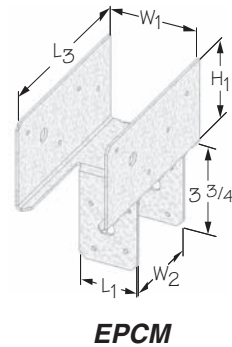
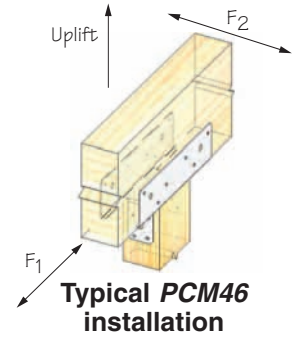
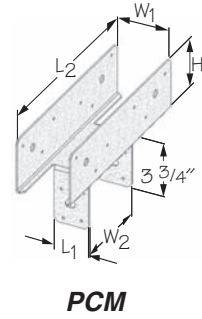
**Options:** PCM44, PCM4416, PCM46, PCM4616, PCM66, PCM6616, EPCM4416, & EPCM4616 are available in Triple Zinc. To order, add TZ to stock number, as in **PCM44-TZ**.

To order for end post applications, add E to the beginning of the part number, as in **EPCM4416**.

**Codes:** NER 505, L.A. City RR 25303, FL816

**Installation:**

- Use all specified fasteners. See Product Notes, page 16.
- PCM<sub>16</sub> post caps should not be substituted for PCM<sub>12</sub> post caps unless approved by the Engineer of Record.



USP Series	Ref. Series	Steel Gauge	Fastener Schedule <sup>1</sup>	
			Post	Beam
PCM <sub>16</sub>	PC <sub>16</sub>	16	(8) 16d	(12) 16d
PCM	PC	12	(8) 16d	(12) 16d
EPCM <sub>16</sub>	EPC <sub>16</sub>	16	(8) 16d	(8) 16d
EPCM	EPC	12	(8) 16d	(8) 16d

1) Minimum nail embedment shall be 1-5/8" for 16d nails.

USP Stock No.	Ref. No.	Beam	Post	Dimensions						Allowable Loads (Lbs.)											
				W1	W2	H1	L1	PCM L2	EPCM L3	DF-L / SP											
										F1				F2				Uplift <sup>1</sup>			
										PCM		EPCM		PCM		EPCM		PCM		EPCM	
PCM4416	PC44-16	4x	4x	3-9/16	3-9/16	3-9/16	2-7/16	11	7-1/4	1300	1300	1300	1300	1470	1480	1470	1480	1100	1100	1100	1100
PCM44	PC44	4x	4x	3-9/16	3-9/16	3-9/16	2-7/16	11	7-1/4	1750	1750	1570	1750	1570	1850	1570	1850	1570	1880	1570	1880
PCM46	PC46	4x	6x	3-9/16	5-9/16	3-9/16	2-7/16	13	9-1/4	1750	1750	1570	1750	1570	1850	1570	1850	1570	1880	1570	1880
PCM4516	---	3-1/2	5-1/4	3-9/16	5-5/16	3-9/16	2-7/16	12-3/4	9	1300	1300	1300	1300	1470	1480	1470	1480	1100	1100	1100	1100
PCM4616	PC46-16	4x	6x	3-9/16	5-9/16	3-9/16	2-7/16	13	9-1/4	1300	1300	1300	1300	1470	1480	1470	1480	1100	1100	1100	1100
PCM4716	---	3-1/2	7x	3-9/16	7-1/8	3-9/16	2-7/16	14-9/16	10-13/16	1300	1300	1300	1300	1470	1480	1470	1480	1100	1100	1100	1100
PCM4816	PC48-16	4x	8x	3-9/16	7-9/16	3-9/16	2-7/16	15	11-1/4	1300	1300	1300	1300	1470	1480	1470	1480	1100	1100	1100	1100
PCM48	PC48	4x	8x	3-9/16	7-9/16	3-9/16	2-7/16	15	11-1/4	1750	1750	1570	1750	1570	1850	1570	1850	1570	1880	1570	1880
PCM5416	---	5-1/4	3-1/2	5-5/16	3-9/16	3-5/8	3-13/16	11	7-1/4	1300	1300	1300	1300	1470	1480	1470	1480	1100	1100	1100	1100
PCM5516	---	5-1/4	5-1/4	5-5/16	5-5/16	3-5/8	3-13/16	12-3/4	9	1300	1300	1300	1300	1470	1480	1470	1480	1100	1100	1100	1100
PCM6416	PC64-16	6x	4x	5-1/2	3-9/16	3-1/2	3-13/16	11	7-1/4	1765	1765	1470	1765	1470	1765	1470	1765	1090	1090	1090	1090
PCM64	PC64	6x	4x	5-1/2	3-9/16	3-1/2	3-13/16	11	7-1/4	2115	2115	1570	1880	1570	1805	1570	1805	1570	1795	1570	1795
PCM6616	PC66-16	6x	6x	5-1/2	5-9/16	3-1/2	3-13/16	13	9-1/4	1765	1765	1470	1765	1470	1765	1470	1765	1090	1090	1090	1090
PCM66	PC66	6x	6x	5-1/2	5-9/16	3-1/2	3-13/16	13	9-1/4	2115	2115	1570	1880	1570	1805	1570	1805	1570	1795	1570	1795
PCM6816	---	6x	8x	5-1/2	7-9/16	3-1/2	3-13/16	15	11-1/4	1765	1765	1470	1765	1470	1765	1470	1765	1090	1090	1090	1090
PCM68	PC68	6x	8x	5-1/2	7-9/16	3-1/2	3-13/16	15	11-1/4	2115	2115	1570	1880	1570	1805	1570	1805	1570	1795	1570	1795
PCM75	---	7-1/8	5-1/4	7-1/8	5-5/16	3-11/16	5-5/8	12-3/4	10	2115	2115	1570	1880	1570	1805	1570	1805	1570	1795	1570	1795
PCM77	---	7-1/8	7-1/8	7-1/8	7-1/8	3-11/16	5-5/8	14-9/16	10-13/16	2115	2115	1570	1880	1570	1805	1570	1805	1570	1795	1570	1795
PCM8416	---	8x	4x	7-1/2	3-9/16	3-1/2	5-5/8	11	7-1/4	1765	1765	1470	1765	1470	1765	1470	1765	1090	1090	1090	1090
PCM84	PC84	8x	4x	7-1/2	3-9/16	3-1/2	5-5/8	11	7-1/4	2115	2115	1570	1880	1570	1805	1570	1805	1570	1795	1570	1795
PCM8616	---	8x	6x	7-1/2	5-9/16	3-3/8	5-5/8	13	9-1/4	1765	1765	1470	1765	1470	1765	1470	1765	1090	1090	1090	1090
PCM86	PC86	8x	6x	7-1/2	5-9/16	3-1/2	5-5/8	13	9-1/4	2115	2115	1570	1880	1570	1805	1570	1805	1570	1795	1570	1795
PCM8816	---	8x	8x	7-1/2	7-9/16	3-1/2	5-5/8	15	11-1/4	1765	1765	1470	1765	1470	1765	1470	1765	1090	1090	1090	1090
PCM88	PC88	8x	8x	7-1/2	7-9/16	3-1/2	5-5/8	15	11-1/4	2115	2115	1570	1880	1570	1805	1570	1805	1570	1795	1570	1795

1) Allowable loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.

**C** – One-piece design.

**PB** – Two-piece design.

**PBES & PBS** – Two-piece design with extended side plates and wrap around post design. Easy retrofit installations.

**Materials:** 18 gauge

**Finish:** G90 galvanizing, PB44-GC & PB66-6GC – Gold Coat

**Options:** C44, C46, C66, PB44-6, PB66-6, PBS44, PBS66, PBES44, & PBES66 are available in Triple Zinc. To order, add TZ to stock number, as in **PBS44-TZ**.

**Codes:** NER 505, ICBO 2039, L.A. City RR 23888 & RR 25303, FL569-R1, FL816, Dade County, FL 03-0508.05 — C44, C46, C66, & C88

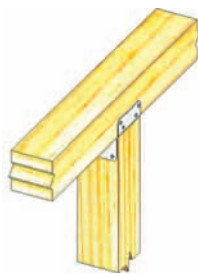
AVAILABLE IN  
**GOLD  
COAT**

**Installation:**

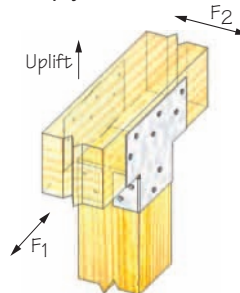
- Use all specified fasteners. See Product Notes, page 16.
- These products are designed to work with single, solid-sawn beams, but can be used with built-up beams. When installed to multiple beams made up of 2x lumber and shims, fasten the plies and shims together to act as a unit.



Typical C44 installation



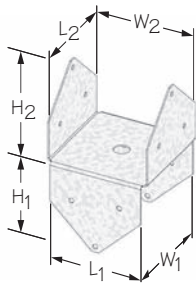
Typical PB installation



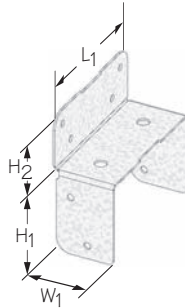
Typical PBS installation



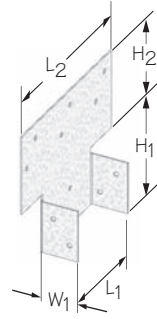
Typical PBES installation



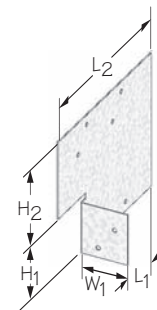
**C44**



**PB44-6**



**PBS**



**PBES**

Caps & Bases

Post Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions						Fastener Schedule <sup>2</sup>		Allowable Loads (Lbs.) <sup>1</sup>					
				W1	W2	H1	H2	L1	L2	Post	Beam	DF-L / SP					
												F1		F2		Uplift	
										133%	160%	133%	160%	133%	160%		
4 x 4	C44	BC4	18	3-9/16	3-9/16	2-7/8	2-7/8	3-1/4	3-1/4	(6) 16d	(6) 16d	1095	1225	1095	1225	1000	1000
4 x 4 Rough	C44R	BC4R	18	4	4	2-5/8	2-5/8	3-1/4	3-1/4	(8) 16d	(8) 16d	1225	1225	1225	1225	1000	1000
4 x 6	C46	BC46	18	3-9/16	5-1/2	2-9/16	2-5/8	3-3/8	5-1/4	(6) 16d	(10) 16d	1095	1225	1095	1225	1000	1000
4 x 6 Rough	C46R	BC46R	18	4	6	2-3/4	2-3/4	3-1/4	5-1/4	(8) 16d	(10) 16d	1225	1225	1225	1225	1000	1000
6 x 6	C66	BC6	18	5-1/2	5-1/2	2-7/8	2-7/8	5-1/4	5-1/4	(12) 16d	(12) 16d	2185	2525	2185	2525	1090	1090
6 x 6 Rough	C66R	BC6R	18	6	6	2-13/16	2-13/16	5-1/4	5-1/4	(10) 16d	(10) 16d	1820	2190	1820	2190	1090	1090
8 x 8	C88	BC8	18	7-1/2	7-1/2	5	5	7-3/8	7-3/8	(16) 16d	(16) 16d	2525	2525	2525	2525	1125	1125
8 x 8 Rough	C88R	---	18	8	8	5	5	7-3/8	7-3/8	(16) 16d	(16) 16d	2525	2525	2525	2525	1125	1125
4 x 4 - 6	PB44-6 <sup>2</sup>	LPC4	18	1-1/2	---	2-1/8	1-1/2	3-5/8	---	(8) 16d	(8) 16d	400	400	940	940	640	640
	PB44-6GC <sup>2</sup>	---															
6 x 6 - 6	PB66-6 <sup>2</sup>	LPC6	18	1-1/2	---	2-1/2	3	5-9/16	---	(8) 16d	(8) 16d	400	400	1000	1000	640	640
	PB66-6GC <sup>2</sup>	---															
4 x 4	PBES44 <sup>2</sup>	ACE4	18	1-1/2	---	1-1/16	4-1/16	3-1/4	4-3/4	(8) 16d	(8) 16d	980	980	630	630	1450	1740
6 x 6	PBES66 <sup>2</sup>	ACE6	18	1-1/2	---	2-1/8	2-5/16	5-1/2	7	(8) 16d	(8) 16d	1275	1275	1010	1010	1450	1740
4 x 4	PBS44 <sup>2</sup>	AC4	18	1-7/16	---	1-1/16	4-1/16	3-9/16	6-1/2	(12) 16d	(12) 16d	975	975	1195	1195	2175	2610
4 x 4 Rough	PBS44R <sup>2</sup>	AC4R	18	1-1/2	---	2-1/8	2-5/16	4	7	(8) 16d	(8) 16d	1450	1680	1195	1195	1450	1740
6 x 6	PBS66 <sup>2</sup>	AC6	18	1-1/4	---	1-1/16	4-1/8	5-1/2	8	(14) 16d	(12) 16d	1010	1010	1310	1310	2175	2280
6 x 6 Rough	PBS66R <sup>2</sup>	AC6R	18	1-1/4	---	2-1/8	2-5/16	6	8-1/2	(10) 16d	(10) 16d	1010	1010	1310	1310	1815	2175

1) Allowable loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.

2) Load and nail schedules for two-piece models are per pair of post caps.

3) Minimum nail embedment shall be 1-5/8" for 16d nails.

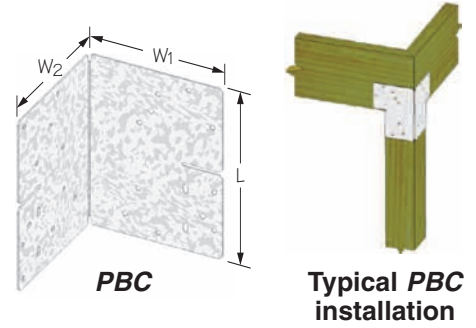
New products or updated product information are designated in red.

The PBC series is a one-piece connector designed to secure two mitered beams on a corner post while providing uplift capacity.

**Materials:** 18 gauge  
**Finish:** G-185 galvanizing

**Installation:**

- Use all specified fasteners. See Product Notes, page 16.
- Install PBC on outside corner of post forming tabs to inner side of post.
- Assumes beam members are bevel cut at corner.



Post Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule <sup>2</sup>		Allowable Loads (Lbs.) <sup>1</sup>											
				W1	W2	L	Post	Beam	DF-L / SP				S-P-F							
									F1		F2		Uplift		F1		F2		Uplift	
									133%	160%	133%	160%	133%	160%	133%	160%	133%	160%	133%	160%
4 x 4	PBC44-TZ	---	18	3-9/16	3-9/16	4-15/16	(8) 16d	(8) 16d	725	870	725	870	1450	1740	625	750	625	750	1250	1500
6 x 6	PBC66-TZ	---	18	5-9/16	3-9/16	6-15/16	(8) 16d	(8) 16d	725	870	725	870	1450	1740	625	750	625	750	1250	1500

1) Allowable loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.  
3) Minimum nail embedment shall be 1-5/8" for 16d nails.

## COMPOSITE POST BASES – CPB SERIES

The CPB is made of corrosion resistant composite material compatible with preservative treated lumber. Provides code required 1" stand-off and can be used with rough lumber sizes.

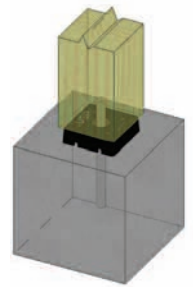
**Materials:** High Strength composite

**Installation:**

- Attach base to post with (4) 10d HDG nails.
- Attach post to concrete using 1/2" diameter rod into concrete and extend into wood member.
- **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.**

The codes specify that non decay resistant columns exposed to weather or located in basements or cellars must be supported by piers or metal pedestals projecting 1-inch above floor or finished grade. **IRC R319.1.4, IBC 2304.11.2.6, UBC 2306.5**

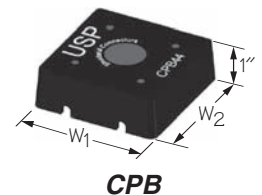
The codes specify that structural columns shall be fastened to resist net induced uplift forces and prevent lateral displacement at the bottom end. **IRC R407.3, IBC 2304.9.7, UBC 2314**



Typical CPB installation

Post Size	USP Stock No.	Ref. No.	Dimensions		Bottom Surface Bearing Area	Fastener Schedule	Post Base Allowable Capacity <sup>1,2</sup>	Concrete Design Bearing Strength <sup>3,4</sup>
			W1	W2				
4 x 4	CPB44	CPS4	3-1/4	3-1/4	2.2	(4) 10d	5235	6545
4 x 6	CPB46	CPS46	3-5/16	5-5/16	3.3	(4) 10d	6810	9820
5 x 5	CPB55	CPS5	4-1/8	4-1/8	3.0	(4) 10d	6295	8925
6 x 6	CPB66	CPS6	5-5/16	5-5/16	3.9	(4) 10d	8570	11600
8 x 8	CPB88	CPS7	7-1/4	7-1/4	6.4	(4) 10d	12490	19040

1) Loads shall not be increased for short-term loading.  
2) Loads require a minimum 650 psi wood compressive strength.  
3) Concrete Design Bearing Strength =  $\phi (0.85 f_c A_c)$  with  $f_c = 2,500$  psi. ACI 318-02, Section 10.17.1.  
4) Design Bearing Strength has been increased assuming  $(A_2 / A_1)^{0.5}$  per ACI 318-02, Section 10.17.1.



CPB

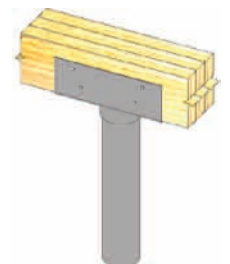
## LALLY COLUMN CAPS – KLCC SERIES

Lally Column Caps connect lally columns to wood beams. Fits 3 1/2" and 4" diameter lally columns.

**Materials:** 12 gauge  
**Finish:** USP primer

**Installation:**

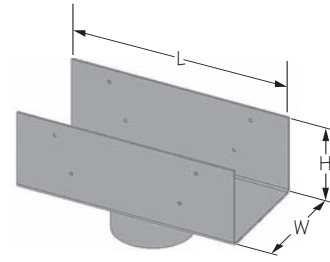
- Use all specified fasteners. See Product Notes, page 16.
- Fit KLCC onto lally column. Position wood beam in KLCC saddle and fasten.



Typical KLCC installation

continued on next page

USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule		Column Outside Dia.	Allowable Loads (Lbs.) <sup>1,2,3,4</sup>	
			W	H	L	Girder	Nails <sup>5</sup>		DF-L / SP / S-P-F	LVL / PSL
KLCC45-35	LCC4.5-3.5	12	4-5/8	4	11-1/2	(3) 2 x 10-12	(8) 16d	3-1/2	16000	--
KLCC45-4	LCC4.5-4	12	4-5/8	4	11-1/2	(3) 2 x 10-12	(8) 16d	4	21000	--
KLCC6-35	LCC6-3.5	12	6-1/8	4	11-1/2	(4) 2 x 10-12	(8) 16d	3-1/2	16000	--
KLCC6-4	LCC6-4	12	6-1/8	4	11-1/2	(4) 2 x 10-12	(8) 16d	4	21000	--
KLCC35-35	LCC3.5-3.5	12	3-5/8	4	11-1/2	3.5 LVL / PSL	(8) 16d	3-1/2	--	16000
KLCC35-4	LCC3.5-4	12	3-5/8	4	11-1/2	3.5 LVL / PSL	(8) 16d	4	--	21000
KLCC525-35	LCC5.25-3.5	12	5-3/8	4	11-1/2	5.25 LVL / PSL	(8) 16d	3-1/2	--	16000
KLCC525-4	LCC5.25-4	12	5-3/8	4	11-1/2	5.25 LVL / PSL	(8) 16d	4	--	21000
KLCC7-35	LCC7-3.5	12	7-1/8	4	11-1/2	7 LVL / PSL	(8) 16d	3-1/2	--	16000
KLCC7-4	LCC7-4	12	7-1/8	4	11-1/2	7 LVL / PSL	(8) 16d	4	--	21000



KLCC

- 1) Loads may not be increased for short-term loading.
- 2) Loads are for a continuous beam.
- 3) Allowable loads are determined using the lowest of the bearing loads. Use Fc equal to 335 psi for SPF, 625 psi for DF and 650 psi for LVL/PSL, or the lally column capacity.
- 4) Spliced conditions must be detailed by the designer to transfer tension loads between spliced members by means other than the lally column. The splice condition load is 6750 lbs. per beam side and the lally cap must be evenly loaded.
- 5) Minimum nail embedment shall be 1-5/8" for 16d nails.

## COLUMN CAPS – KCCQ & KECCQ SERIES

Designed to be installed without the need to drill bolt holes, simplifying installation and maintaining the wood cross section. Installs with WS Wood Screws offering high uplift capacity. The wood screws provide a lower profile than bolts.

**KCCQ** – Standard column cap.

**KECCQ** – End column cap.

**Materials:** See chart

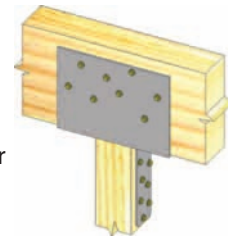
**Finish:** USP primer

**Options:** Straps may be rotated 90° on special order where the W2 dimension is less than or equal to the W1 dimension.

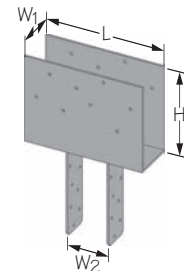
**Codes:** NER 532, ICBO 2725, FL819, L.A. City RR 25104

### Installation:

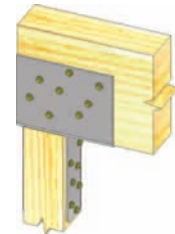
- Use all specified fasteners. See Product Notes, page 16.
- WS3 Wood Screws, 1/4" dia. x 3" long, are supplied with KCCQ and KECCQ Column Caps.
- Beams shall be designed to support the required loads. Beam shear may limit loads to less than listed loads for device. A design professional shall determine the adequacy of the stud to resist published loads.
- For end column caps, add an *E* after the *K* in the stock number, as in **KECCQ325-4**.



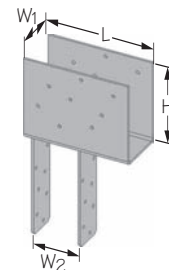
Typical KCCQ44 center cap installation



KCCQ44



Typical KECCQ44 end cap installation



KECCQ44

USP Stock No.	Ref. No.	Steel Gauge	Dimensions					Fastener Schedule <sup>5</sup>		Allowable Loads (Lbs.) <sup>1,4</sup>			
			W1	W2	H	L		Beam	Column or Post	DF-L / SP		Uplift <sup>3,9</sup>	
						KCCQ	KECCQ			Bearing <sup>2</sup>			
											100%	100%	133%
KCCQ325-4	CCQ3-4SDS2.5	7	3-1/4	3-5/8	6-1/2	11	7-1/2	(16) WS3	(14) WS3	21485	14650	5955	7060
KCCQ325-6	CCQ3-6SDS2.5	7	3-1/4	5-1/2	6-1/2	11	7-1/2	(16) WS3	(14) WS3	21485	14650	5955	7060
KCCQ44	CCQ44SDS2.5	7	3-5/8	3-5/8	6-1/2	11	8-1/2	(16) WS3	(14) WS3	24065	18595	5955	7060
KCCQ46	CCQ46SDS2.5	7	3-5/8	5-1/2	6-1/2	11	8-1/2	(16) WS3	(14) WS3	24065	18595	5955	7060
KCCQ48	CCQ48SDS2.5	7	3-5/8	7-1/2	6-1/2	11	8-1/2	(16) WS3	(14) WS3	24065	18595	5955	7060
KCCQ525-4	CCQ5-4SDS2.5	3	5-1/4	3-5/8	8	13	9-1/2	(16) WS3	(14) WS3	41640	30430	5955	7060
KCCQ525-6	CCQ5-6SDS2.5	3	5-1/4	5-1/2	8	13	9-1/2	(16) WS3	(14) WS3	41640	30430	5955	7060
KCCQ525-8	CCQ5-8SDS2.5	3	5-1/4	7-1/2	8	13	9-1/2	(16) WS3	(14) WS3	41640	30430	5955	7060
KCCQ64	CCQ64SDS2.5	7	5-1/2	3-5/8	6-1/2	11	8-1/2	(16) WS3	(14) WS3	37815	29220	5955	7060
KCCQ66	CCQ66SDS2.5	7	5-1/2	5-1/2	6-1/2	11	8-1/2	(16) WS3	(14) WS3	37815	29220	5955	7060
KCCQ67X	CCQ6-7.13SDS2.5	7	5-1/2	7-1/8	6-1/2	11	8-1/2	(16) WS3	(14) WS3	37815	29220	5955	7060
KCCQ68	CCQ68SDS2.5	7	5-1/2	7-1/2	6-1/2	11	8-1/2	(16) WS3	(14) WS3	37815	29220	5955	7060
KCCQ74	CCQ74SDS2.5	3	6-7/8	3-5/8	6-1/2	11	8-1/2	(16) WS3	(14) WS3	46405	35860	5955	7060
KCCQ76	CCQ76SDS2.5	3	6-7/8	5-1/2	6-1/2	11	8-1/2	(16) WS3	(14) WS3	46405	35860	5955	7060
KCCQ77	CCQ77SDS2.5	3	6-7/8	6-7/8	6-1/2	11	8-1/2	(16) WS3	(14) WS3	46405	35860	5955	7060
KCCQ77X	CCQ7.1-7.1SDS2.5	3	7-1/8	7-1/8	6-1/2	11	8-1/2	(16) WS3	(14) WS3	48125	37190	5955	7060
KCCQ78	CCQ78SDS2.5	3	6-7/8	7-1/2	6-1/2	11	8-1/2	(16) WS3	(14) WS3	46405	35860	5955	7060
KCCQ86	CCQ86SDS2.5	7	7-1/2	5-1/2	6-1/2	11	8-1/2	(16) WS3	(14) WS3	51565	39845	5955	7060
KCCQ88	CCQ88SDS2.5	7	7-1/2	7-1/2	6-1/2	11	8-1/2	(16) WS3	(14) WS3	51565	39845	5955	7060
KCCQ96	CCQ96SDS2.5	7	8-7/8	5-1/2	6-1/2	11	8-1/2	(16) WS3	(14) WS3	60155	46485	5955	7060
KCCQ98	CCQ98SDS2.5	7	8-7/8	7-1/2	6-1/2	11	8-1/2	(16) WS3	(14) WS3	60155	46485	5955	7060
KCCQ106	CCQ106SDS2.5	7	9-1/2	5-1/2	6-1/2	11	8-1/2	(16) WS3	(14) WS3	65315	50470	5955	7060

- 1) Allowable loads are based on the 1997 NDS®.
- 2) Bearing loads are based on 625 psi perpendicular to grain loading; no further increase for duration of load is permitted.
- 3) Uplift loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.
- 4) Allowable loads are based on lumber with a specific gravity of 0.50 and a moisture content of 19% or less.
- 5) WS3 Wood Screws are 1/4" x 3" long and are included with KCCQ and KECCQ column caps.
- 6) Beams shall be designed to support the required loads. Beam shear may limit loads to less than listed loads for device.
- 7) The designer shall check post for required loads.
- 8) Spliced conditions must be detailed by the specifier to transfer tension loads between spliced members by means other than the column cap.
- 9) Uplift loads do not apply to splice conditions.

New products or updated product information are designated in red.

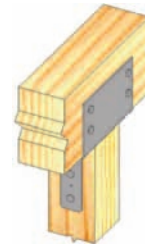
**KCC** – Standard column cap.

**KECC** – End column version.

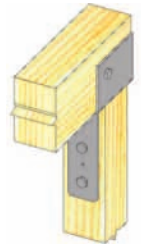
- Materials:** See chart
- Finish:** USP primer
- Codes:** NER 530, FL822, L.A. City RR 25337
- Options:** See page 66.

**Installation:**

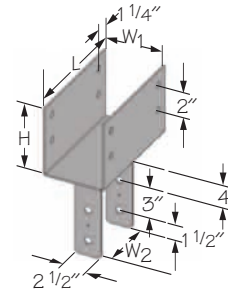
- Use all specified fasteners. See Product Notes, page 16.
- Bolt holes should be a minimum of 1/32" to a maximum of 1/16" larger than the bolt diameter.
- Beams shall be designed to support the required loads. Beam shear may limit loads to less than listed loads for device. A design professional shall determine the adequacy of the post and beam to resist published loads.



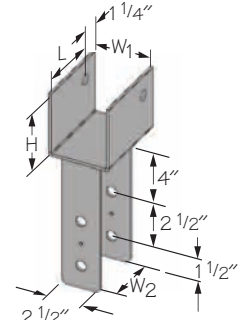
**Typical KCC installation**



**Typical KECC44 installation**



**KCC**



**KECC44**

USP Stock No.	Ref. No.	Steel Gauge	Dimensions						Fastener Schedule <sup>4</sup>				Allowable Loads (Lbs.) <sup>3</sup>					
			W1	W2	H	L		Beam		Column or Post	DF-L / SP							
						KCC	KECC	KCC	KECC		Bearing <sup>1</sup>		Uplift <sup>2,3</sup>					
											KCC	KECC	KCC	KECC	100%	100%	133%	160%
KCC325-4	CC3-1/4-4	7	3-1/4	3-5/8	6-1/2	11	7-1/2	(4) 5/8	(2) 5/8	(2) 5/8	21485	14650	2920	3505	1460	1750		
KCC325-6	CC3-1/4-6	7	3-1/4	5-1/2	6-1/2	11	7-1/2	(4) 5/8	(2) 5/8	(2) 5/8	21485	14650	2920	3505	1460	1750		
KCC44	CC44	7	3-5/8	3-5/8	4	7	5-1/2	(2) 5/8	(1) 5/8	(2) 5/8	15315	12030	3265	3920	1635	1960		
KCC45	---	7	3-5/8	5-3/8	6-1/2	11	7-1/2	(4) 5/8	(2) 5/8	(2) 5/8	24065	16405	3265	3920	1635	1960		
KCC46	CC46	7	3-5/8	5-1/2	6-1/2	11	8-1/2	(4) 5/8	(2) 5/8	(2) 5/8	24065	18595	3265	3920	1635	1960		
KCC47	---	7	3-5/8	7-1/8	6-1/2	11	9-1/2	(4) 5/8	(2) 5/8	(2) 5/8	24065	20780	3265	3920	1635	1960		
KCC48	CC48	7	3-5/8	7-1/2	6-1/2	11	9-1/2	(4) 5/8	(2) 5/8	(2) 5/8	24065	20780	3265	3920	1635	1960		
KCC525-4	CC5-1/4-4	3	5-1/4	3-5/8	8	13	9-1/2	(4) 3/4	(2) 3/4	(2) 3/4	41640	30430	6795	8155	5040	5935		
KCC525-6	CC5-1/4-6	3	5-1/4	5-1/2	8	13	9-1/2	(4) 3/4	(2) 3/4	(2) 3/4	41640	30430	6795	8155	5040	5935		
KCC525-8	CC5-1/4-8	3	5-1/4	7-1/2	8	13	9-1/2	(4) 3/4	(2) 3/4	(2) 3/4	41640	30430	6795	8155	5040	5935		
KCC54	---	7	5-3/8	3-5/8	6-1/2	11	7-1/2	(4) 5/8	(2) 5/8	(2) 5/8	36095	24610	3455	4145	1725	2070		
KCC55	---	7	5-3/8	5-3/8	6-1/2	11	7-1/2	(4) 5/8	(2) 5/8	(2) 5/8	36095	24610	3455	4145	1725	2070		
KCC55X	---	3	5-3/8	5-3/8	8	13	9-1/2	(4) 3/4	(2) 3/4	(2) 3/4	42655	31170	6795	8155	5040	5935		
KCC57	CC6-7-1/8	7	5-3/8	7-1/8	6-1/2	11	9-1/2	(4) 5/8	(2) 5/8	(2) 5/8	36095	31170	3455	4145	1725	2070		
KCC64	CC64	7	5-1/2	3-5/8	6-1/2	11	7-1/2	(4) 5/8	(2) 5/8	(2) 5/8	37815	25780	3455	4145	1725	2070		
KCC66	CC66	7	5-1/2	5-1/2	6-1/2	11	7-1/2	(4) 5/8	(2) 5/8	(2) 5/8	37815	25780	3455	4145	1725	2070		
KCC68	CC68	7	5-1/2	7-1/2	6-1/2	11	9-1/2	(4) 5/8	(2) 5/8	(2) 5/8	37815	32655	3455	4145	1725	2070		
KCC74	CC74	3	6-7/8	3-5/8	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	54845	44295	6795	8155	5040	5935		
KCC75X	CC7-1/8-6	3	7-1/8	5-1/2	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	56875	45940	6795	8155	5040	5935		
KCC76	CC76	3	6-7/8	5-1/2	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	54845	44295	6795	8155	5040	5935		
KCC77	CC77	3	6-7/8	6-7/8	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	54845	44295	6795	8155	5040	5935		
KCC77X	CC7-1/8-7-1/8	3	7-1/8	7-1/8	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	56875	45940	6795	8155	5040	5935		
KCC78	CC78	3	6-7/8	7-1/2	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	54845	44295	6795	8155	5040	5935		
KCC84	CC84	3	7-1/2	3-5/8	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	60940	49220	6795	8155	5040	5935		
KCC86	CC86	3	7-1/2	5-1/2	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	60940	49220	6795	8155	5040	5935		
KCC88	CC88	3	7-1/2	7-1/2	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	60940	49220	6795	8155	5040	5935		
KCC94	CC94	3	8-7/8	3-5/8	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	71095	57420	6795	8155	5040	5935		
KCC96	CC96	3	8-7/8	5-1/2	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	71095	57420	6795	8155	5040	5935		
KCC98	CC98	3	8-7/8	7-1/2	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	71095	57420	6795	8155	5040	5935		
KCC104	---	3	9-5/8	3-5/8	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	77190	62345	6795	8155	5040	5935		
KCC106	CC106	3	9-5/8	5-1/2	8	13	10-1/2	(4) 3/4	(2) 3/4	(2) 3/4	77190	62345	6795	8155	5040	5935		

- 1) Bearing loads are based on 625 psi perpendicular to grain loading; no further increase for duration of load is permitted.
- 2) Uplift loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.
- 3) Allowable loads are based on lumber with a specific gravity of 0.50 and a moisture content of 19% or less.
- 4) All bolts shall meet or exceed the specifications of ASTM A 307.
- 5) Beams shall be designed to support the required loads. Beam shear may limit loads to less than listed loads for device.
- 6) The designer shall check post for required loads.
- 7) Spliced conditions must be detailed by the specifier to transfer tension loads between spliced members by means other than the column cap.
- 8) Uplift loads do not apply to splice conditions.

**★ Bolts must be ordered separately. See page 26 for available sizes.**

**continued on next page**

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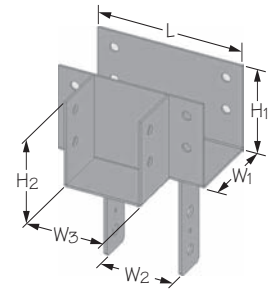
**Caps & Bases**

**Options:** All nominal lumber sizes are available for rough/full size lumber. KCC44, KCC46, KCC64, KCC66, KECC44, KECC46, KECC64, & KECC66 are available in Hot-dip galvanized. To order, add *HDG* to stock number, as in **KCC44-HDG**.

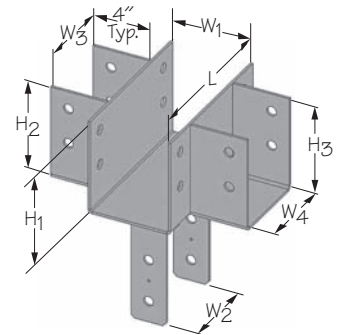
**Specialty Options:**

- For end column caps, add an E after the K in the stock number, as in **KECC325-4**.
- Straps may be rotated 90° on special order where the W2 dimension is less than or equal to the W1 dimension.
- **KCCO/KECCO** – Cap only, no strap design for field welding to pipe or other columns.
- **KCCOB** – For cross beam connections. Any two buckets can be welded together for a wide variety of applications. Allowable load shall be the lesser of the two components.
- **KCCT** – For T beam intersections, consult USP. Specify beam/column conditions, dimensions, and loading requirements.
- **KCCC** – For X beam intersections, consult USP. Specify beam/column conditions, dimensions, and loading requirements.
- **KECCLL/R** – For L beam intersections, consult USP. Specify left (L) or right (R) beam/column conditions, dimensions, and loading requirements.

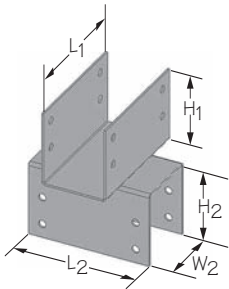
**Dimension call-outs not shown in the table must be specified at time of ordering for specialty options, non-catalog, or rough/full size lumber sizes.**



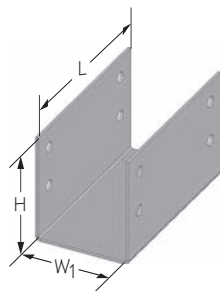
**KCCT**



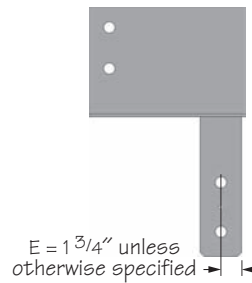
**KCCC**



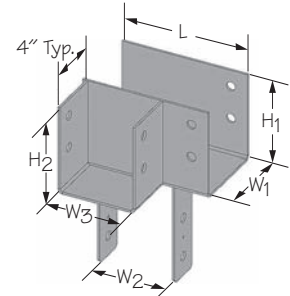
**KCCOB**



**KCCO**



**Optional KECC  
Rotated Straps 90°**



**KECCLL  
left shown**

Caps & Bases

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**TOP VIEW OF SPECIALTY OPTIONS COLUMN CAP CONFIGURATIONS**

