

## CNW COUPLER NUTS

All-thread rod is correctly installed when visible through CNW's "witness" holes. CNW's dimple provides a positive stop to allow even bolt threading top and bottom.

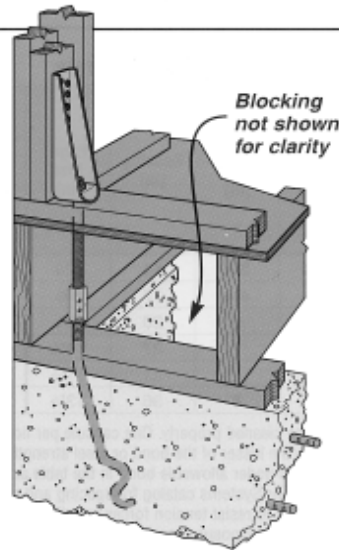
CNW's are tested and load-rated coupler nuts. They can be used for extending anchor bolts, for example, through floor framing. CNW's meet and exceed the capacity of corresponding ASTM A307, A36, SAE1018 and Grade 2 bolts and threaded rod.

**CODES:** Submitted to ICBO 10/99

Model No.	Rod Dia.	H Min	Allowable Tension Loads
CN $\frac{3}{8}$ W	0.625	1 $\frac{1}{4}$	5870
CN $\frac{1}{2}$ W	0.75	2	8455
CN $\frac{3}{4}$ W	0.875	2 $\frac{3}{8}$	11510

1. Allowable loads based on 1986 AISI Sec E3.4 bolt allowable loads.
2. CNW coupler nuts are tested to a minimum of 2.3 factor of safety on the allowable A307 load.

- INSTALLATION:**
- Each rod must be threaded halfway through CNW.
  - Each rod must meet at the center.
  - Tighten the two rods against the central stop in the coupler nut.



Typical CNW Rim Joist Installation



CNW allows fast visual check for correct all thread rod installation

STEEL PRODUCTS

## BP/LBP BEARING PLATES

The BP $\frac{3}{8}$ S uses SDS $\frac{1}{4}$  x 1 $\frac{1}{2}$  screws to provide lateral resistance when sill holes are overdrilled (screws are provided). The SDS shear capacity is 1160 lbs.

Bearing Plates give greater bearing surface than standard cut washers, and help distribute the load at these critical connections. BP Bearing Plates are designed to meet City of Los Angeles requirements for sill plate anchors and holdown stud anchors.

**MATERIAL:** See table

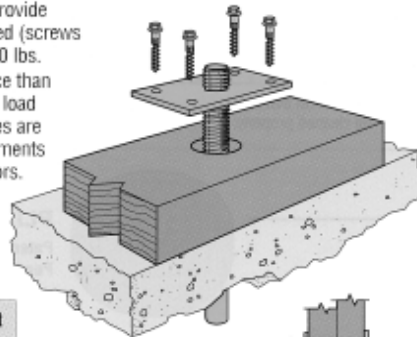
**FINISH:** LBP—galvanized; BP—none

**INSTALLATION:** See General Notes.

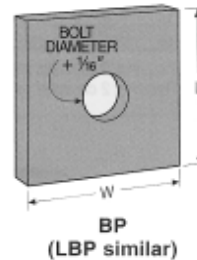
**CODE:** City of L.A. RR 25293 (BP).

Model No.	Thick-ness	Dimensions		Bolt Dia.
		W	L	
LBP $\frac{1}{2}$	$\frac{3}{4}$	2	2	$\frac{1}{2}$
LBP $\frac{3}{4}$	$\frac{3}{4}$	2	2	$\frac{3}{4}$
LBPS $\frac{1}{2}$	$\frac{3}{4}$	3	3	$\frac{1}{2}$
LBPS $\frac{3}{4}$	$\frac{3}{4}$	3	3	$\frac{3}{4}$
BP $\frac{1}{2}$	$\frac{3}{8}$	2	2	$\frac{1}{2}$
BP $\frac{3}{4}$ 2	$\frac{3}{8}$	2	2	$\frac{3}{4}$
BP $\frac{3}{8}$ S-SDS1 $\frac{1}{2}$	3 ga	4	2	$\frac{1}{2}$
BP $\frac{1}{2}$	$\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	$\frac{1}{2}$
BP $\frac{3}{4}$	$\frac{3}{8}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	$\frac{3}{4}$
BP $\frac{1}{2}$	$\frac{3}{8}$	3	3	$\frac{1}{2}$
BP 1	$\frac{3}{8}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	1

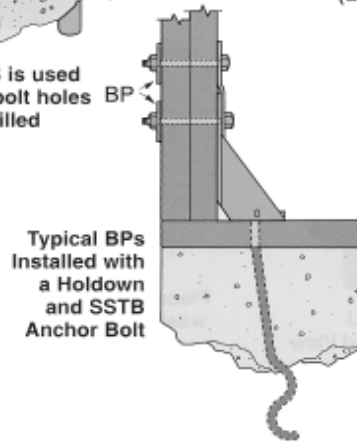
1. BP $\frac{3}{8}$ S sold as a kit.
2. City of LA requires 2 $\frac{1}{2}$ " square bearing for  $\frac{1}{2}$ " bolt. UBC requires 2" square.



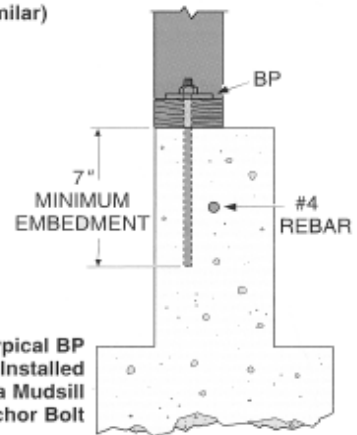
The BP $\frac{3}{8}$ S is used when sill bolt holes are overdrilled



LBPS



Typical BPs Installed with a Holdown and SSTB Anchor Bolt



Typical BP Installed with a Mudsill Anchor Bolt

## RFB RETROFIT BOLTS

RFBs are pre-cut threaded rod, supplied with nut and washer. May be ordered in bulk. Bulk does not come with nut and washer. Offers a complete engineered anchoring system when used with the Epoxy-Tie. Inspection is easy; the head is stamped with rod length and "No Equal" symbol for identification after installation.

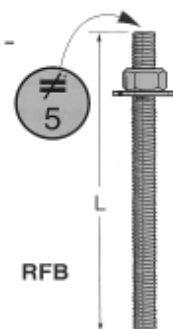
**MATERIAL:** A307, Grade A.

**FINISH:** Zinc-plated

**INSTALLATION:** • Request T-HD for installation information.

Model No.	L	Stud Dia.	Embedm. Depth	Min. End Dist	Min. Edge Dist	Compatible Products
RFB#4X5	5	$\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	AB44, 46, 66, 44R, 46R, 66R; ABA44, 44R; ABE44, 44R
RFB#4X6	6	$\frac{1}{2}$	4 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	FA6, 8; HFA6, 8; FAP; FJA; FSA
RFB#4X7	7	$\frac{1}{2}$	4 $\frac{1}{4}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$	LTT20B, UFP10
RFB#4X10	10	$\frac{1}{2}$	4 $\frac{1}{4}$	3 $\frac{1}{4}$	1 $\frac{1}{2}$	$\frac{1}{2}$ " Dia. mudsill anchor bolts
RFB#5X5	5	$\frac{5}{8}$	3 $\frac{1}{2}$	2	1 $\frac{1}{4}$	ABA46, 66, 46R, 66R; ABE46, 66, 46R, 66R
RFB#5X8	8	$\frac{5}{8}$	5	3 $\frac{1}{4}$	3 $\frac{1}{4}$	—
RFB#5X10	10	$\frac{5}{8}$	7	7	1 $\frac{1}{4}$	$\frac{5}{8}$ " Dia. mudsill anchor bolts
RFB#5X16	16	$\frac{5}{8}$	12	5	1 $\frac{1}{4}$	HD2A, 5A; HTT22, PHD2, PHD5
RFB#6X10.5	10 $\frac{1}{2}$	$\frac{3}{4}$	6 $\frac{1}{4}$	5	3 $\frac{1}{4}$	LTT19; MTT28B

1. Maximum anchor load is 4040 lbs.
2. Embedment is based on 2000 psi concrete.



RFB