Min. of 2" to Bolt Center

FSA ANCHOR Fasteners
TO Stud/joist/plate
8-10dx1 1/2

TO Foundation
2--RFB#4X6 Anchor Bolt & Epoxy

FOUNDATION TO FLOOR JOIST (RETROFIT)
STANDOFF POST BASE
Using Simpson ABE44 Post Base

Must Have 2" Min Sidecover

4x4 POST

FASTENERS
6--10d Nails
1/2" Anchor Bolt
See MFG for proper fasteners to use in Post or Beam

Typical AC Installation
NOTE:
See Simpson catalog for fasteners and allowable loads to meet local code requirements.

FLOOR TO FLOOR CONNECTIONS
(Contractor's Choice)
3” MINIMUM SIDE COVER (2” FOR LCB)

Simpson Strong-Tie CB or LCB

3” MINIMUM SIDE COVER

1” STANDOFF SATISFIES CODE REQUIREMENTS

COLUMN BASES (Contractor's Choice)

CBS44

LCB
Fasteners:

Nails: 16-16d Stem Width 6" min.
23-16d Stem Width 8" Min
Must be 8" from corner min.

Stem Wall Width (6" or 8")

Typ. Double Pour Edge Holdown Installation
HPAHDD22-2P Series
Double Pour Installation (SSTB20, 24 and 34)

Min. Embed. (See MFG for length)

Install the SSTB diagonally at approximately 45° from the wall. Install one #4 rebar 3" to 5" from the top of the foundation. SSTB does not need to be tied to rebar.

SLAB

FOOTING
NOTE:

See Simpson for correct attachments and loads for your local area to meet code requirements.

FLOOR TO FLOOR CONNECTION
(Contractor's Choice)
Typ. FSA Installation
Foundation to stud

Fasteners
2--1/2" Anchor Bolts
8--10dx 1 1/2" Nails
2--1/2" MB
NOTE:

Use Simpson catalog for correct fasteners and allowable loads to meet your code requirements.

GABLE ENDWALL CONNECTIONS
(Contractor’s Choice)
NOTE:
Spalling may occur if the anchor is bent horizontally 90 deg. before installation, and then bent up vertically to attach to the stud. Load reduction may apply.

Fasteners:
Nails: 9-16d Min Stem Width 6"
       11-16d Min Stem Width 8"

Corner distance from edge of strap to corner 1/2" min.

Typ. Double Pour Corner Holdown Installation
HPAHD

Samples from www.AutoCADDetails.net
Fasteners:
Nails: 16-16d Stem Width 6" min.
23-16d Stem Width 8" Min
Must be 8" from corner min.

Stem Wall Width (6" or 8")

Typ. Double Pour Edge Holdown Installation
HPAHD22

Fasteners:
Nails: 9-16d Min Stem Width 6"
11-16d Min Stem Width 8"

Corner distance from edge of strap to corner 1/2" min.

Typ. Double Pour Corner Holdown Installation
HPAHD
Typical HPAHD22 Single Pour Edge Installation

 Typical HPAHD Single Pour Edge Installation

 Typical HPAHD Single Pour Rim Joist Installation

 Typical HPAHD22 Double Pour Corner Installation

 Typical HPAHD22-2P Double Pour Edge Installation

 WOOD TO CONCRETE HOLDOWNS
HPAHD SERIES—(Contractor's Choice)
Typ. Single Pour Edge Installation
HPAHD Series

Typ. Single Pour Corner Installation
HPAHD Series

TYPICAL HPAHD INSTALLATION
(Single Pour)
Fasteners

16d Sinkers or 10d Common
Min nail end distance is 10x the nail diameter, or 1 5/8" for 16d.

NOTE: Must be embedded 4" onto the slab and 6" into the stem wall beneath for a max. load of 2810 lbs. @ 8" min. from the closest corner, and 1400 lbs. @ 1/2" from the closest corner.

TYPICAL HOLDOWN
HPAHD22
Fasteners:

Nails: 7-16d Stem Width 6" min.
      9-16d Stem Width 6" min.
Bolts: 3 1/2"

Nails: 10-16d Stem Width 8" min.
      11-16d Stem Width 8" min.
Bolts: 3 1/2"

Min nail end distance to prevent splitting is 10x the dia., or 1 5/8" for 16d nails.

Typ. Single Pour Rim Joist Installation
HPAHD Series Holdown
NAIL TO FORM BOARD

Simpson Strong-Tie
HPAHD22-2P
Note: HTT22 can have a MAX. offset of 2" from the stud face to the centerline of the anchor bolt.

Use the specified number and type of nails to attach the strap portion to the bottom or side of purlin or beam. Bolt the base to the wall or foundation with suitable anchor.

32-16d Sinkers (16d sinkers or 10d common may be substituted for the specified 16d.)

Anchor Bolt ---5/8"

Typical HTT22 as a Holdown by Simpson
NOTE: See Simpson catalog for proper fasteners and allowable loads to meet your code requirements.

LATERAL LOAD CONNECTIONS
(Contractor's Choice)
Use 5/8" Anchor Bolts

Use 18-10dx1 1/2" Nails

Simpson Strong-Tie
LT1T31
LTT19  Use 3/4" Anchor Bolts, 8-16d Sinkers.

LTT19 Installation (LTT20B similar)
Simpson Strong-Tie
FOR INSTALLATION EASE, NAIL ONE DUPLEX NAIL INTO SIDE FORM BOARD

Mudsill Anchor Singleside Installation Cut-away (Typical)MAS
TYPICAL MUDSILL ANCHORING
USING Simpson-Ties
Use type that is most common in area.
(Contractor Shoice)
4" for PA
6" for HPA28
81/4" for HPA35

3 1/2" Min.
(See Simpson for Nailing Specs.)

Hanger Not shown

PA OR HPA Purlin To Concrete Wall
Simpson Strong-Tie
BEND ADDITIONAL STRAP OVER TOP OR CUT OFF

Double 2"x10" Rim Joist

On PA5----Use 9-16d Nails PA68 Use 9-16d Nails
Min. Embed. Depth 4".

Typical PA51 Installation (PA68 Similar)

PA51 or PA68 Simpson Strong-Tie

Samples from www.AutoCADDetails.net
Use 12-16d Nails

2" MINIMUM SIDE COVER

Typical PB Installation
Use 8-16d Nails

Allow 1" to 2 1/2" clearance above concrete. 2" for EPB44A. Insert EPB into concrete after screeding.

Typical EPB44A Installation
HOLE DRILLED INTO POST FOR ADJUSTABILITY

Use 6-16d Nails

2 1/2" Max

EPOXY OR CAST IN PLACE FOR UPLIFT

Typical EPB44T Installation with Epoxy
NUT AND WASHER FOR ADJUSTABILITY

NO UPLIFT

Use 6-16d Nails

2 1/2" Max.

Typical EPB44T Installation w/nut & washer
Typ. Single Pour Edge Installation
HPAHD Series

2 x embedment length + 12" min rebar length

Stem Width Typical

6" Use 16-16d Nails, 4 1/2" Bolts
8" Use 23-16d Nails, 4 1/2" Bolts
Stem Width

6"--Use 9-16d Nails, 3 1/2" Bolts
8"--Use 11-16d Nails, 3 1/2" Bolts

One #4 Rebar in shear cone 12" Min.Rebar length

30" Min Rebar length

Corner Distance from edge of strap to corner

Typ. Single Pour Corner Installation
HPAHD Series
Stem Wall Thickness
6" Min. 8" For 7/8" SSTB

1 3/4" Min. Edge Distance

See Simpson MFG For proper length

SSTB(Typical) Installation
Typical SSTB
Installation in Grouted Concrete Block