Strong-Tie

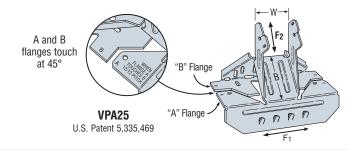
## VPA Variable Pitch Connector

The VPA may be sloped in the field, offering a versatile solution for attaching rafters to the top plate. It will adjust to accommodate slopes between 3:12 and 12:12, making it a complement to the versatile LSSU. This connector eliminates the need for notched rafters, beveled top plates and toe nailing.

MATERIAL: 18 gauge FINISH: Galvanized

INSTALLATION: • Use all specified fasteners. See General Notes.

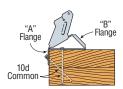
CODES: See page 12 for Code Reference Key Chart.



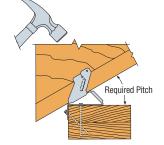
	Model No.	w	В	Fasteners		Allowable Loads								
Actual				Carrying Member	Carried Member	Uplift				Lateral				
Joist						DF/SP	SPF	Download		DF/SP Species		SPF/HF Species		Code Ref.
Width						Species	Species			(160)		(160)		
						(160)	(160)	DF/SP	SPF	F <sub>1</sub>	F <sub>2</sub>	F <sub>1</sub>	F <sub>2</sub>	
11/2	VPA2	1%16	2	8-10d	2-10dx1½	295	250	1050	870	375	250	325	250	18, F7
13/4	VPA25	113/16	2	8-10d	2-10dx1½	295	250	1050	870	375	250	325	250	10, Г1
2	VPA2.06	21/16	2	9-10d	2-10dx1½	295	250	1230	1020	375	250	325	250	170
21/16	VPA2.1	21/8	2	9-10d	2-10dx1½	295	250	1230	1020	375	250	325	250	170
21/4 - 25/16	VPA35	25/16	2	9-10d	2-10dx1½	295	250	1230	1020	375	250	325	250	
21/2 - 29/16	VPA3	2%16	2	9-10d	2-10dx1½	295	250	1230	1020	375	250	325	250	18, F7
3½	VPA4	3%16	2	11-10d	2-10dx1½	295	250	1230	1020	375	250	325	250	

- 1. Uplift loads include a 60% increase for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
- 2. Loads may not be increased for short-term loading.
- 3. NAILS: 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.

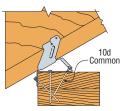
## VPA INSTALLATION SEQUENCE



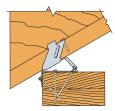
STEP 1
Install top nails and face PAN
nails in "A" flange to outside
wall top plate.



STEP 2
Seat rafter with a hammer, adjusting "B" flange to the required pitch.



STEP 3
Install "B" flange nails in the obround nail holes, locking the pitch.



STEP 4
Bend 11½" nail into tab nail hole.
10dx11½" nail into tab nail hole.
Hammer nail in at an approximate 45° angle to limit splitting.

## **HCP** Hip Corner Plates

## For complementary ridge connection, see page 108

The HCP connects a rafter or joist to double top plates at a 45° angle.

MATERIAL: 18 gauge FINISH: Galvanized

INSTALLATION: • Use all specified fasteners. See General Notes.

- Attach HCP to double top plates; birdsmouth not required for table loads.
- Install rafter and complete nailing. Rafter may be sloped to 45°.

CODES: See page 12 for Code Reference Key Chart.

Member	Model	Faste	eners	Allov	/SP vable ads	SPF Allov Loa	Code	
Size	No.	To	To	(160)		(16	Ref.	
		Rafters	Plates	Uplift	F <sub>1</sub>	Uplift	F <sub>1</sub>	
1¾	HCP1.81	6-10dx1½	6-10dx1½	645	300	555	260	18, F7

- 1. Loads include a 60% increase for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
- The HCP can be installed on the inside and the outside of the wall with a flat bottom chord truss and achieve twice the load capacity.
- 3. **NAILS:**  $10 dx 1\frac{1}{2} = 0.148$ " dia.  $x 1\frac{1}{2}$ " long. See page 16-17 for other nail sizes and information.

