## VPA Variable Pitch Connectors

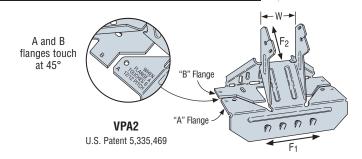
SIMPSON Strong-Tie

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.

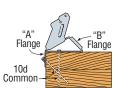


Joist Width	Model No.	w	Fasteners		DF/SP Allowable Loads				SPF/HF Allowable Loads				
			Carrying Member	Carried Member	Uplift Download	Lateral (160)		Uplift	Uplift Download	Lateral (160)		Code Ref.	
					(160)		F <sub>1</sub>	F <sub>2</sub>	(160)		F <sub>1</sub>	F <sub>2</sub>	
1½	VPA2	1%16	8-10d	2-10dx11/2	295	1050	375	250	250	870	325	250	
21/2	VPA3	2%16	9-10d	2-10dx11/2	295	1230	375	250	250	1020	325	250	18, F7
31⁄2	VPA4	3%16	11-10d	2-10dx11/2	295	1230	375	250	250	1020	325	250	

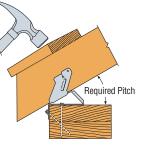
1. Uplift loads include a 60% increase for wind or earthquake loading with no further increase allowed; reduce where other loads govern.

2. Loads may not be increased for short-term loading.

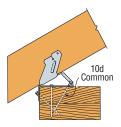
# VPA INSTALLATION SEQUENCE



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.



3. NAILS: 10d = 0.148" dia. x 3" long, 10dx11/2 = 0.148" dia. x 11/2" long.

See page 16-17 for other nail sizes and information.

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



<u>STEP 4</u> Install 10dx1½" nail into tab nail hole. Hammer nail in at a slight angle to prevent splitting.

### HCP Hip Corner Plates

The HCP connects a rafter or joist to double top plates at a 45° angle. **MATERIAL**: 18 gauge

FINISH: HCP2—galvanized or ZMAX<sup>®</sup> coating; HCP4Z—ZMAX coating 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.

this page may also be available with this option, check with Simpson Strong-Tie for details.										
Member Size	Model No.	Faste	eners	Allov	/SP vable ads	SPF Allow Loa	Code Ref.			
3126	NU.	То	То	(160)		(160)		nei.		
		Rafters	Plates	Uplift	F <sub>1</sub>	Uplift	F <sub>1</sub>			
2x	HCP2	6-10dx1½	6-10dx1½	645	300	555	260	18, F7		
4x	HCP4Z	8-10d	8-10d	1000	265	860	230	18		

These products are available with additional corrosion protection. Additional products on

- 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
- 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:** 10d = 0.148" dia. x 3" long,  $10dx1\frac{1}{2} = 0.148$ " dia. x  $1\frac{1}{2}$ " long. See page 16-17 for other nail sizes and information.

