

## 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.

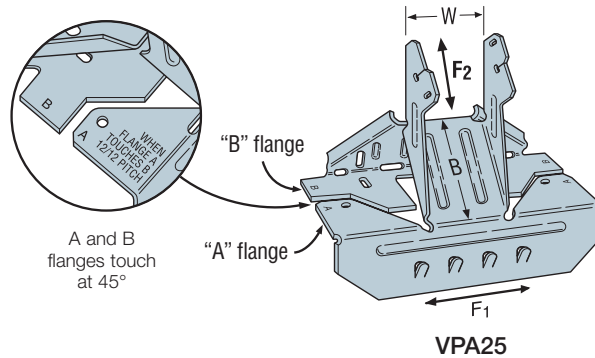
**Material:** 18 gauge

**Finish:** Galvanized

**Installation:**

- Use all specified fasteners; see General Notes

**Codes:** See p. 14 for Code Reference Key Chart



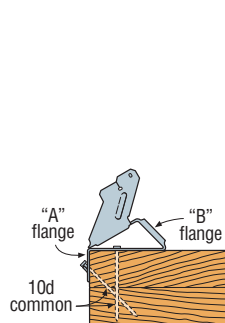
Actual Joist Width (in.)	Model No.	W (in.)	B (in.)	Fasteners		Allowable Loads								Code Ref.
						Uplift		Download	Lateral					
				Carrying Member	Carried Member	DF/SP Species	SPF Species		DF/SP Species		SPF/HF Species			
						(160)	(160)		DF/SP	SPF	F <sub>1</sub>	F <sub>2</sub>	F <sub>1</sub>	
1½	VPA2	1⅞	2	(8) 10d	(2) 10d x 1½"	295	250	1,050	870	375	250	325	250	I8, L15, FL
1¾	VPA25	1⅞	2	(8) 10d	(2) 10d x 1½"	295	250	1,050	870	375	250	325	250	
2	VPA2.06	2⅞	2	(9) 10d	(2) 10d x 1½"	295	250	1,230	1,020	375	250	325	250	170
2⅞	VPA2.1	2⅞	2	(9) 10d	(2) 10d x 1½"	295	250	1,230	1,020	375	250	325	250	
2¼ - 2⅝	VPA35	2⅞	2	(9) 10d	(2) 10d x 1½"	295	250	1,230	1,020	375	250	325	250	I8, L15, FL
2½ - 2⅞	VPA3	2⅞	2	(9) 10d	(2) 10d x 1½"	295	250	1,230	1,020	375	250	325	250	
3½	VPA4	3⅞	2	(11) 10d	(2) 10d x 1½"	295	250	1,230	1,020	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.

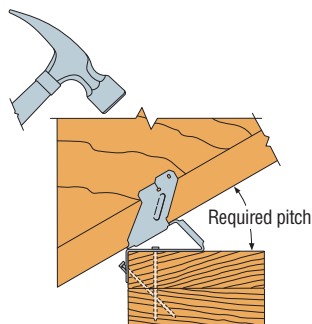
3. **Nails:** 10d = 0.148" dia. x 3" long, 10d x 1½" = 0.148" dia. x 1½" long.  
See pp. 26-27 for other nail sizes and information.

## VPA Installation Sequence



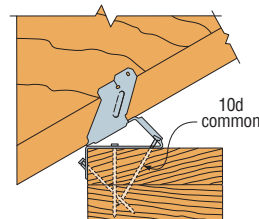
**Step 1**

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



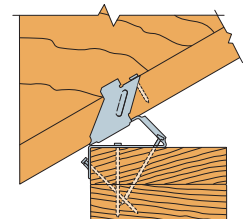
**Step 2**

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 tab with hammer and install 10dx1½" nail into tab nail hole. Hammer nail in at an approximate 45° angle to limit splitting.