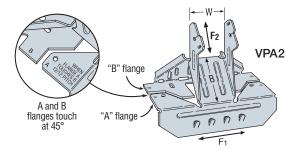
Variable-Pitch Connector

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 LSSR and LSSJ hangers. 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

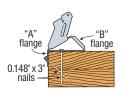
Codes: See p. 11 for Code Reference Key Chart



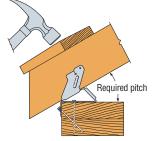
	Joist	Model No.	W	Fasten	ers (in.)		DF/SP Allowab	le Loads						
				0	Carried Member	Uplift (160)	Download (100/115/125)	Lateral (160)		Uplift	Danieland	Lateral (160)		Code Ref.
	Width		(in.)	Carrying Member						Opilit	Download (100/115/125)			
								F ₁	F ₂	(160)	(100/110/120)	F ₁	F ₂	
	1½	VPA2	1 %	(8) 0.148 x 3	(2) 0.148 x 1½	255	1,105	345	300	220	950	295	260	IDO
	21/2	VPA3	2%16	(9) 0.148 x 3	(2) 0.148 x 1½	255	1,245	345	300	220	1,070	295	260	IBC, FL. LA
	31/2	VPA4	3%16	(11) 0.148 x 3	(2) 0.148 x 1½	255	1,245	345	300	220	1,070	295	260] ' [, [/\

- 1. Loads have been increased for wind or earthquake loading, with no further increase allowed. Reduce where other loads govern.
- 2. Fasteners: Nail dimensions are listed diameter by length. See pp. 21-22 for fastener information.

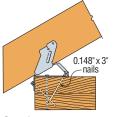
VPA Installation Sequence



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
Install 0.148" x 1½" nail into tab
nail hole. Hammer nail in at a
slight angle to prevent splitting.

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HCP

Hip Corner Plate

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

Material: 18 gauge

Finish: HCP2 — galvanized or ZMAX® coating; HCP4Z — ZMAX coating

Installation: • Use all specified fasteners; see General Notes.

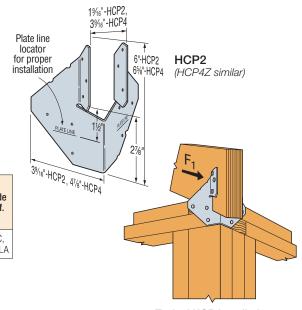
- Attach HCP to double top plates; birdsmouth not required for table uplift loads but may be required for download.
- Install rafter and complete nailing. Rafter may be sloped to 45°.

Codes: See p. 11 for Code Reference Key Chart

These products are available with additional corrosion protection. For more information, see p. 14.

Member	Model	Faste (ir		DF/ Allowab		SPF Allowab	Code Ref.	
Size	No.	To Rafters	To Plates	(16	60)	(16		
		10 naiteis	10 Flates	Uplift	F ₁	Uplift	F ₁	
2x	HCP2	(6) 0.148 x 1½	(6) 0.148 x 1½	590	255	510	220	IBC,
4x	HCP4Z	(8) 0.148 x 3	(8) 0.148 x 3	990	230	850	200	FL, LA

- Loads have been increased for wind or earthquake loading, with no further increase allowed. Reduce where other loads govern.
- 2. The HCP can be installed on the inside and the outside of the wall with a flat bottom chord truss and achieve twice the allowable load.
- 3. **Fasteners:** Nail dimensions are listed diameter by length. See pp. 21–22 for fastener information.



VPA



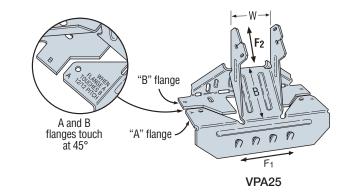
Variable-Pitch Connector

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 LSSR. This connector eliminates the need for notched rafters, beveled top plates and toenailing.

Material: 18 gauge Finish: Galvanized Installation:

• Use all specified fasteners; see General Notes

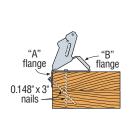
Codes: See p. 11 for Code Reference Key Chart



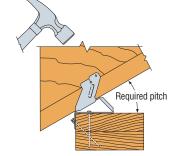
	Model No.			Fasteners (in.)		Allowable Loads								
Actual					Carried	Uplift				Lateral				
Joist Width		W (in.)	B (in.)			DF/SP Species	SPF Species	Download		DF/SP Species (160)		SPF/HF Species (160)		Code Ref.
(in.)			(,		Member									
						(160)	(160)	DF/SP	SPF	F ₁	F ₂	F ₁	F ₂	
11/2	VPA2	1 %16	2	(8) 0.148 x 3	(2) 0.148 x 1½	255	220	1,105	950	345	300	295	260	IBC,
13/4	VPA25	1 13/16	2	(8) 0.148 x 3	(2) 0.148 x 1½	255	220	1,105	950	345	300	295	260	FL, LA
2	VPA2.06	21/16	2	(9) 0.148 x 3	(2) 0.148 x 1½	255	220	1,245	1,070	345	300	295	260	
21/16	VPA2.1	21/8	2	(9) 0.148 x 3	(2) 0.148 x 1½	255	220	1,245	1,070	345	300	295	260	-
21/4 - 25/16	VPA35	25/16	2	(9) 0.148 x 3	(2) 0.148 x 1½	255	220	1,245	1,070	345	300	295	260	
21/2 - 29/16	VPA3	2%16	2	(9) 0.148 x 3	(2) 0.148 x 1½	255	220	1,245	1,070	345	300	295	260	IBC, FL, LA
3½	VPA4	3%16	2	(11) 0.148 x 3	(2) 0.148 x 1½	255	220	1,245	1,070	345	300	295	260]

- 1. Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.
- 2. Loads may not be increased for duration of load.
- 3. Fasteners: Nail dimensions are listed diameter by length. See pp. 21–22 for fastener information.

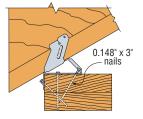
VPA Installation Sequence



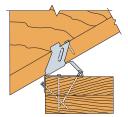
Step 1 Install top nails and face PAN nails in "A" flange to outside wall top plate.



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 0.148" x 1½" nail into tab nail hole. Hammer nail in at an approximate 45° angle to limit splitting.