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 and LSSJ hangers. This connector eliminates the need for notched rafters, beveled top plates and toe nailing.

Material: 18 gauge

Finish: Galvanized

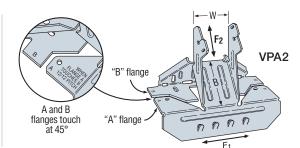
Joist Widt

> 1½ 2½ 3½

Installation: Use all specified fasteners; see General Notes

Codes: See p. 13 for Code Reference Key Chart Web Applications: Visit app.strongtie.com/rws to access our Dest to Well Selector web application

our Roof-to-Wall Selector web application.

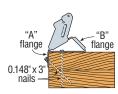


st Ith	Model No.	W (in.)	Fasten	ers (in.)		DF/SP Allowab	le Loads							
				Carried Member	Unlift	Download (100/115/125)	Lateral (160)		Unlift	Download (100/115/125)	Lateral (160)		Code Ref.	
			Carrying Member		Uplift				Uplift					
					(160)		F1	F ₂	(160)	(100/110/120)	F1	F ₂		
/2	VPA2	1 %16	(8) 0.148 x 3	(2) 0.148 x 1 ½	255	1,105	345	300	220	950	295	260	15.00	
/2	VPA3	2%16	(9) 0.148 x 3	(2) 0.148 x 1 1⁄2	255	1,245	345	300	220	1,070	295	260	IBC®, FL. LA	
2	VPA4	3%16	(11) 0.148 x 3	(2) 0.148 x 1 ½	255	1,245	345	300	220	1,070	295	260	1 ' ', ', ', ', ', ', ', ', ', ', ', ', '	

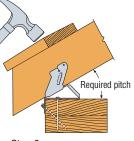
1. Loads have been increased for wind or earthquake loading, with no further increase allowed. Reduce where other loads govern.

2. Fasteners: Nail dimensions are listed diameter by length. See pp. 23-24 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 $1\frac{1}{2}$ " nail into tab nail hole. Hammer nail in at a slight angle to prevent splitting.

HCP

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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 $^{\scriptscriptstyle (\! \! \! \! \! \! \! \!\!)}$ 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. 13 for Code Reference Key Chart

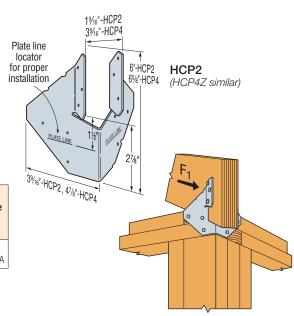
These products are available with additional corrosion protection. For more information, see p. 16.

Member	Model	Faste (ir	DF/ Allowab		SPF Allowab	Code		
Size	No.	To Rafters	To Plates	(16	50)	(160)		Ref.
		TU naiters	TOFILLES	Uplift	F ₁	Uplift	F ₁	
2x	HCP2	(6) 0.148 x 1 ½	(6) 0.148 x 1 ½	590	255	510	220	IBC,
4x	HCP4Z	(8) 0.148 x 3	(8) 0.148 x 3	990	230	850	200	FL, LA

1. Loads have been increased 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 allowable load.
- 3. **Fasteners:** Nail dimensions are listed diameter by length.

See pp. 23–24 for fastener information.



Typical HCP Installation

SIMPSO

<u>St</u>rong-Tie

VPA

SIMPSO Strong-T

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

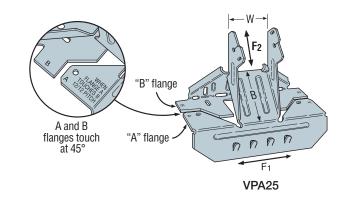
Installation: Use all specified fasteners; see General Notes

Codes: See p. 13 for Code Reference Key Chart

Web Applications:

Visit app.strongtie.com/rws to access our Roof-to-Wall Selector web application.





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and Str nber Co
L la
 l-Joist, Glu Composite

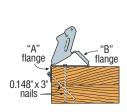
	Model No.			Fasteners (in.)		Allowable Loads								
Actual				Carrying Member	Carried Member	Uplift				Lateral				
Joist Width		W (in.)	B (in.)			DF/SP Species (160)	SPF Species	Download		DF/SP Species		SPF/HF Species		Code Ref.
(in.)			()							(160)		(160)		
							(160)	DF/SP	SPF	F ₁	F ₂	F ₁	F ₂	
1 1⁄2	VPA2	1 %16	2	(8) 0.148 x 3	(2) 0.148 x 11⁄2	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 11⁄2	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 11⁄2	255	220	1,245	1,070	345	300	295	260	
21⁄2 - 2%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
31⁄2	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.

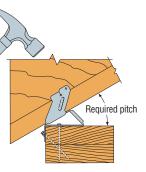
2. Loads may not be increased for duration of load.

3. Fasteners: Nail dimensions are listed diameter by length. See pp. 23-24 for fastener information.

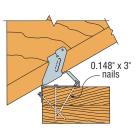
VPA Installation Sequence



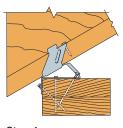
Step 1 Install top nails and face PAN nails in "A" flange to outside wall top plate.



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 11/2" nail into tab nail hole. Hammer nail in at an approximate 45° angle to limit splitting.