

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.

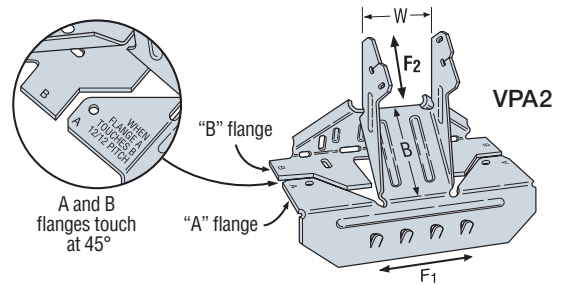
Material: 18 gauge

Finish: Galvanized

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.

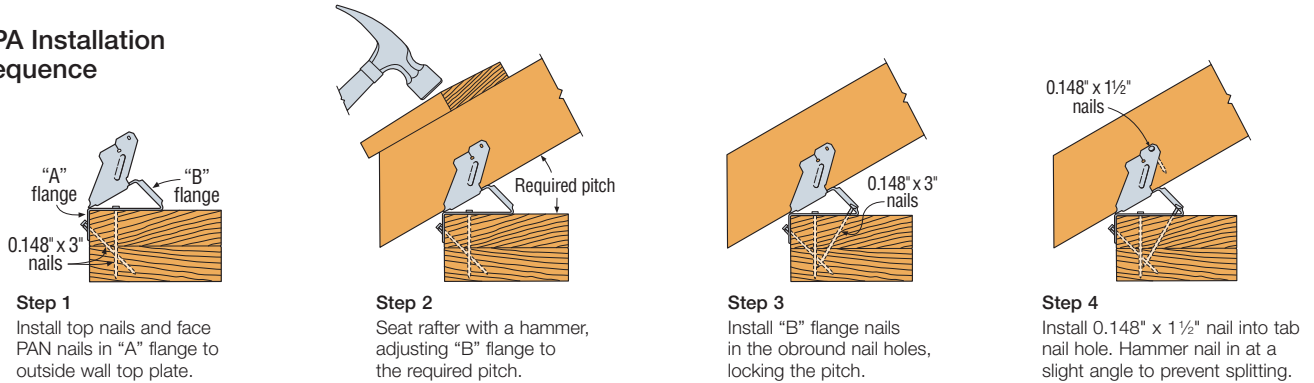


Joist Width	Model No.	W (in.)	Fasteners (in.)		DF/SP Allowable Loads				SPF/HF Allowable Loads				Code Ref.
			Carrying Member	Carried Member	Uplift (160)	Download (100/115/125)	Lateral (160)		Uplift (160)	Download (100/115/125)	Lateral (160)		
							F ₁	F ₂			F ₁	F ₂	
1½	VPA2	1⅞	(8) 0.148 x 3	(2) 0.148 x 1½	255	1,105	345	300	220	950	295	260	IBC®, FL, LA
2½	VPA3	2⅞	(9) 0.148 x 3	(2) 0.148 x 1½	255	1,245	345	300	220	1,070	295	260	
3½	VPA4	3⅞	(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. 23–24 for fastener information.

VPA Installation Sequence



HCP

Hip Corner Plate

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

Material: 18 gauge

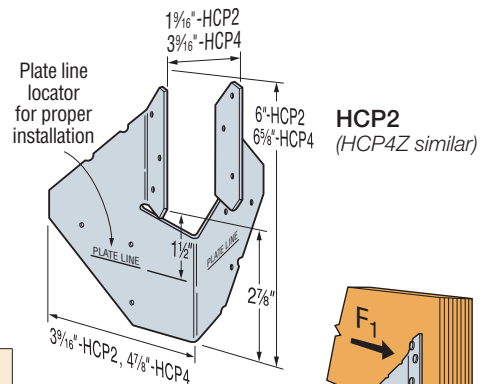
Finish: HCP2 – galvanized or ZMAX® coating; HCP4Z – ZMAX coating

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°.

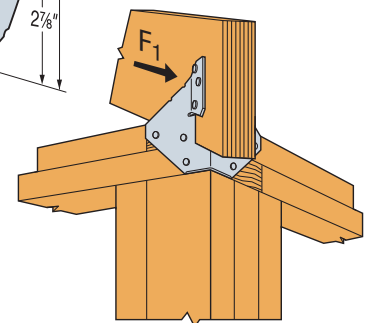
Codes: See p. 13 for Code Reference Key Chart

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



Member Size	Model No.	Fasteners (in.)		DF/SP Allowable Loads (160)		SPF/HF Allowable Loads (160)		Code Ref.
		To Rafters	To Plates	Uplift	F ₁	Uplift	F ₁	
2x	HCP2	(6) 0.148 x 1½	(6) 0.148 x 1½	590	255	510	220	IBC, FL, LA
4x	HCP4Z	(8) 0.148 x 3	(8) 0.148 x 3	990	230	850	200	

1. 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. 23–24 for fastener information.



Typical HCP Installation