

HRC Hip Ridge Connectors

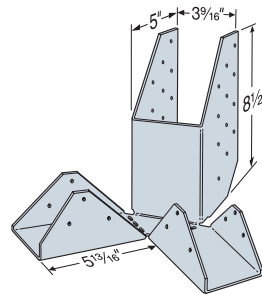
The HRC series are field slopeable connectors that attach hips to ridge members or trusses. The HRC may be sloped to 45° with no reduction in resistances.

MATERIAL: HRC22, HRC42—16 gauge;
HRC44—14 gauge

FINISH: Galvanized

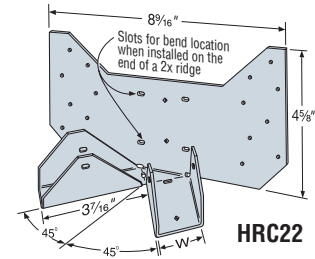
INSTALLATION: • Use all specified fasteners.
See General Notes.

- On end of ridge—use optional diamond holes on HRC22 and HRC42 to secure the HRC. Bend face flanges on HRC22 back flush with ridge, and complete nailing.
- HRC22 on face of ridge—adjust to correct height and install nails.
- Double bevel-cut hip members to achieve full bearing capacity.

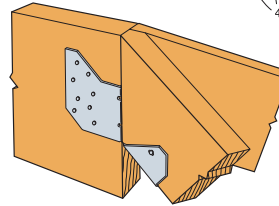


HRC44
(HRC42 similar)

U.S. Patent
5,380,116

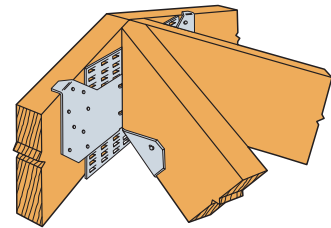


HRC22



Typical HRC22 Installation on the end of a ridge

Model No.	Member Size (in)		Fasteners		Factored Resistance			
	W	Ridge	Carrying Member	Each Hip	D.Fir-L		S-P-F	
					Uplift (K _D =1.15)	Normal (K _D =1.00)	Uplift (K _D =1.15)	Normal (K _D =1.00)
					lbs	lbs	lbs	lbs
				kN	kN	kN	kN	
HRC22	1 5/8	2x or 1 3/4" wide	16-10d x 1 1/2	2-10d x 1 1/2	490	1340	350	960
					2.18	5.97	1.56	4.28
HRC42	1 5/8	4x	16-16d	2-10d x 1 1/2	490	1510	350	1065
					2.18	6.73	1.56	4.74
HRC44	3 5/8	4x	24-16d	6-16d	790	2575	555	1815
					3.52	11.47	2.47	8.08



Optional Installation for HRC22 only

1. Factored resistances shown are for each hip. Total resistance carried by the connector is double this number.
2. Factored uplift resistances include a 15% increase for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
3. **NAILS:** 16d = 0.162" dia. x 3 1/2" long, 10d x 1 1/2 = 0.148" dia. x 1 1/2" long. See page 16-17 for other nail sizes and information.

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® coating; HCP4Z—ZMAX coating

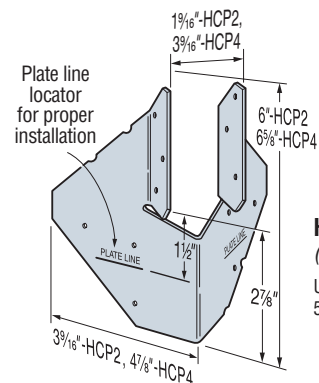
INSTALLATION: • Use all specified fasteners. See General Notes.

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

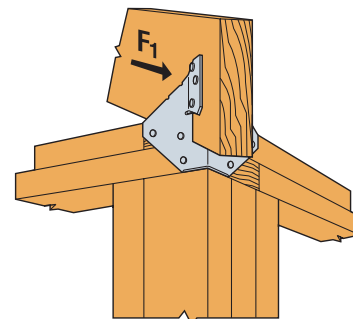
These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Member Size	Model No.	Fasteners		Factored Resistance			
		To Hip	To Plates	D.Fir-L		S-P-F	
				Uplift (K _D =1.15)	F ₁ (K _D =1.00)	Uplift (K _D =1.15)	F ₁ (K _D =1.00)
				lbs	lbs	lbs	lbs
				kN	kN	kN	kN
2x	HCP2	6-10d x 1 1/2	6-10d x 1 1/2	1250	485	895	350
				5.57	2.16	3.99	1.56
4x	HCP4Z	8-10d	8-10d	1670	435	1195	310
				7.44	1.94	5.32	1.38

1. The HCP can be installed on the inside and the outside of the wall with a flat bottom chord truss and achieve twice the factored resistance.
2. Factored uplift resistances include a 15% increase for earthquake or wind loading; no further increase allowed.
3. **NAILS:** 10d = 0.148" dia. x 3" long, 10d x 1 1/2 = 0.148" dia. x 1 1/2" long. See page 16-17 for other nail sizes and information.



HCP2
(HCP4Z similar)
U.S. Patent
5,380,115



Typical HCP Installation