

HRC Hip Ridge Connectors

Engineered Wood & Structural Composite Lumber Connectors

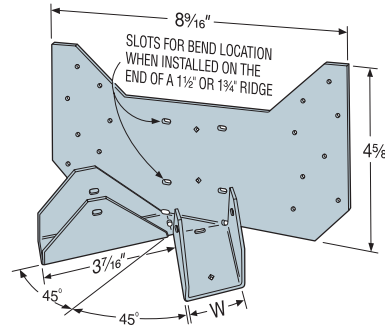
The HRC series are field slopeable connectors that attach hips to ridge members or trusses. The HRC may be sloped to 45° with no reduction in loads.

MATERIAL: 16 gauge

FINISH: Galvanized

INSTALLATION:

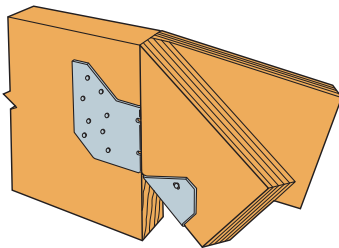
- Use all specified fasteners. See General Notes.
- On end of ridge—use optional diamond holes to secure the HRC. Bend face flanges back flush with ridge, and complete nailing.
- On face of ridge—adjust to correct height and install nails.
- Double bevel-cut hip members to achieve full bearing capacity.
- The HRC may be sloped to 45° with no reduction in resistances.



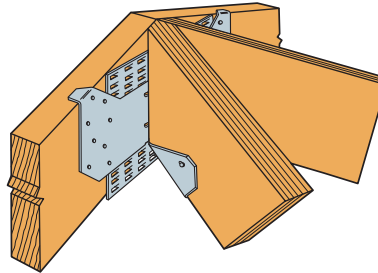
HRC1.81
U.S. Patent
5,380,116

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	
HRC1.81	1 3/16	2x or 1 3/4" wide	16-10dx1 1/2	2-10dx1 1/2	490	1340	350	960
					2.18	5.97	1.56	4.28
HRC44	3 9/16	4x	24-16d	6-16d	790	2575	555	1815
					3.52	11.47	2.47	8.08

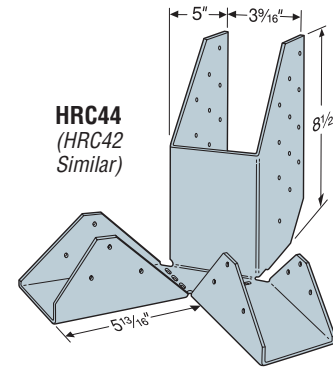
1. Factored resistances shown are for each hip. Total factored resistance of the connector is double this number.
2. Factored uplift resistances include a 15% increase for earthquake or wind loading; no further increase allowed.
3. **NAILS:** 16d = 0.162" dia. x 3 1/2" long, 10dx1 1/2 = 0.148" dia. x 1 1/2" long. See page 16-17 for other nail sizes and information.



Typical HRC Installation on the End of a Ridge



Optional HRC1.81 Installation



HRC44
(HRC42 Similar)

HCP Hip Corner Plates

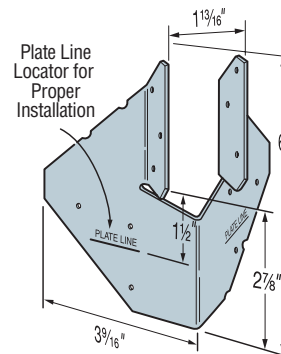
The HCP connects a rafter or joist to double top plates at a 45° angle.

MATERIAL: 18 gauge **FINISH:** Galvanized

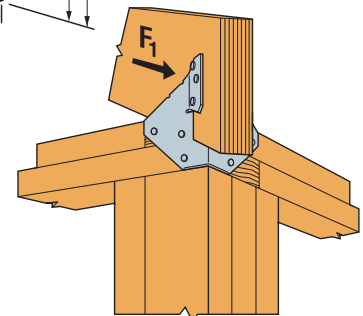
INSTALLATION: • Use all specified fasteners. See General Notes.

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

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
1 3/4	HCP1.81	6-10dx1 1/2	6-10dx1 1/2	1250	485	895	350
				5.57	2.16	3.99	1.56
3 1/2	HCP4Z	8-10d	8-10d	1670	435	1195	310
				7.44	1.94	5.32	1.38



HCP1.81
U.S. Patent
5,380,115



Typical HCP Installation

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; reduce where other loads govern.
3. **NAILS:** 10d = 0.148" dia. x 3" long, 10dx1 1/2 = 0.148" dia. x 1 1/2" long. See page 16-17 for other nail sizes and information.