

AHEP

Adjustable Hip-End Purlin

The AHEP is a structural purlin that also serves as an installation lateral restraint and spacer during the truss erection process. The AHEP attaches to the leading edge of step-down hip trusses, eliminating the need for drop-top chords, 2x lumber or gable end fillers. The interlocking design of the AHEP allows them to install linearly, aligned with the end jacks, to maintain framing spacing from eave to hip or peak. Roof sheathing/decking attaches directly to the purlin with knurled pneumatic fasteners or low-profile head, self-drilling screws. Adjustable in length, the AHEP is designed to accommodate a pitch range of 3/12 to 9/12 as a structural purlin and up to 12/12 as an installation lateral restraint and spacer.

Features:

- A structural purlin to which sheathing can be directly attached — no need to remove temporary bracing
- Accurately spaces the installed trusses and helps meet the temporary top-chord lateral restraint recommendations of WTCA/TPI BCSI on step-down hip ends
- Adjustable in length to accommodate a wide pitch range

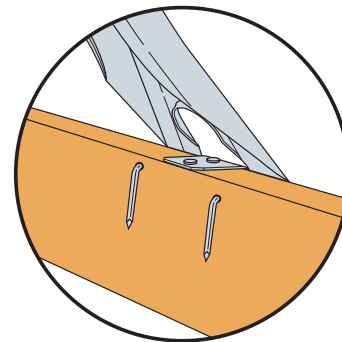
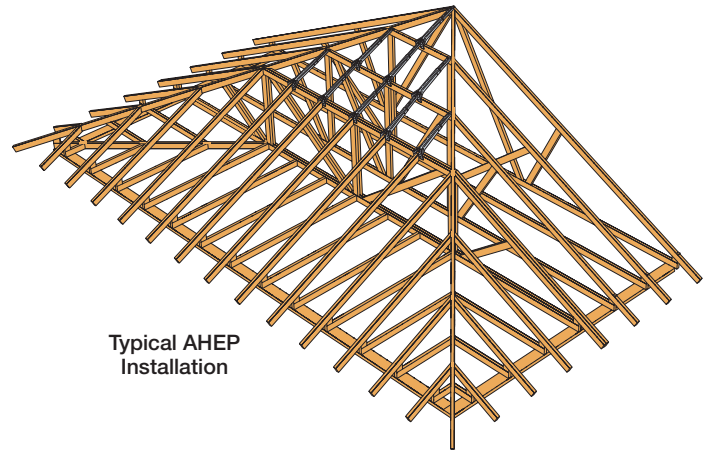
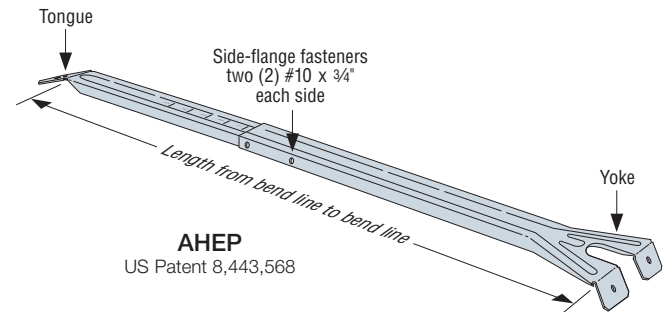
Material: 20 gauge (33 mil)

Finish: Galvanized

Installation:

- Use all specified fasteners; see General Notes.
- Prior to installation, the AHEP must be set to the proper length and the two tubes fastened together with four #10 x 3/4" self-drilling screws through the round holes in the side flanges for pitches between 3/12 and 9/12; and in the triangular and upper round hole when the AHEP will be used as an installation restraint and spacer at pitches 9/12 up to 12/12.
- For trusses spaced 24" o.c., the pitch markings on the inner tube may be used to line up the tubes to the correct length for a given pitch. For other spacings, the length of the AHEP must be set to the calculated sloping length (from leading edge to leading edge of the framing members).
- To install the AHEPs on wood trusses, use four 0.148" x 3" nails. The two nails at the bottom of the part (the yoke end) must be clinched.
- Sheathing is attached to the AHEP with knurled pneumatic fasteners or low-profile-head, self-drilling screws.
- For efficiency, the AHEPs should be installed in line with the end jacks so that framing alignment can be maintained from eave to hip/ridge.

Codes: See p. 13 for Code Reference Key Chart



The two nails at the bottom of the part (the yoke end) must be clinched.

Model No.	Fasteners (in.)		Sheathing Option	Allowable Down Loads						Code Ref.
	AHEP Side Flanges	To Hip Trusses		3/12 Pitch		3.1/12 Pitch		9/12 Pitch		
				L/180	3/16"	L/180	3/16"	L/180	3/16"	
AHEP	(4) #10 x 3/4	(4) 0.148 x 3	None	180	240	180	240	135	150	IBC®, FL
			1 1/2" (min.) wood sheathing	250	345	210	275	160	175	

1. Loads may not be increased for duration of load.
2. Allowable loads apply to wood with a specific gravity of 0.42 or greater.
3. Designer shall ensure that attached members are adequately designed to resist applied loads.
4. Straight-line interpolation can be used to determine allowable loads for pitches between 3.1:12 and 9:12.
5. **Fasteners:** Nail dimensions are listed diameter by length. See pp. 23–24 for fastener information.