



WALLA WALLA COUNTY

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Minimum Requirements for Pole Buildings

The following are minimum standards for pole buildings with eave heights of up to 12 feet. Eave heights of 12-16 feet must follow additional requirements also listed in this handout. Eave heights above 16 feet require stamped engineering approval by a licensed Washington State Professional Engineer.

Maximum 12' Bays:

All truss poles; 6 x 6 Hem-Fir #2 or better with CCA .60 retention.

All wood within 6" of earth must be pressure treated.

Minimum 29 gauge metal for siding and roof and attached per manufacturer's requirements. Panels must be adjoined using stitch screws.

Trusses to be engineered pre-fab designed for 30# snow load, 5# dead load. All engineered lateral bracing must be installed.

Purlins shall be minimum 2 x 6, #2 or better, spaced 16" o.c. for 12' bays and 24" o.c. for 10' bays, unless engineered otherwise.

Girts shall be 2 x 6 #2 or better at 24" o.c. max. and nailed to poles with 16d HD galvanized nails; minimum 3 nails per girt end.

Trusses shall be thru-bolted to poles with minimum 5/8" diameter bolts.

Bolted 2 x 6 corbel blocks shall be min. 18" in length.

Footing depth to be 48" into undisturbed earth with concrete punch pad 18" in diameter. Holes may be backfilled with earth or crushed rock.

As an alternative to using a punch pad, poles may sit on 6" crushed rock and backfilled with concrete. Provide treated 2 x 6 or other approved method nailed near bottom of pole to prevent uplift.

Roof only pole buildings must provide a plan for lateral bracing approved by this office.

Additional Requirements for Pole Buildings with 12-16' Eaves

Pole building with eaves of 12-16' must satisfy the following:

Knee bracing required at each truss end at 45°. Use formula $H/4$ for vertical and horizontal dimensions to connections. As an alternative to knee bracing, 6 x 8 poles may be used

Use 2 x 6 thru-bolted with min. 5/8" diameter bolt at lower connection and 4-16d HD galvanized nails at upper connections.

Bolted 2 x 6 corbel blocks shall be min. 24" in length.

Concrete collars required at ground level for all poles. Collars to be 24" in diameter and 6" thick.

This brochure contains general information only and is subject to periodic change. Contact the Department of Community Development for specific details regarding current information.

