



DEPARTMENT OF COMMUNITY DEVELOPMENT

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Minimum Requirements for Pole Buildings

The following are minimum standards for pole buildings with eave heights of 13-16 feet. Any variations or eave height above 16 feet require stamped engineering approval by a licensed Washington State Structural Engineer.

Maximum 12' bays

Truss poles 6 x 6 Hem-Fir #1
End wall poles 6 x 6 Hem-Fir #1

48" footing depth from undisturbed earth and 24" footing width.

Punch pad to be 24" in diameter x 6" deep.

Concrete collars required on all poles --
20" x 6" for truss poles
16" x 6" for end wall poles

Knee bracing required at each truss end at 45°. Use formula $H/4$ for vertical and horizontal dimension to connections. Use 2 x 6 thru -- bolted with 5/8 diameter bolt at lower connection with (4) 16d nails at each connection.

Corbel blocks required beneath each truss post connection; 24" in length with 5/8 diameter thru bolt.

Trusses to be engineered pre-fab designed for 20# live load, 5# dead load for detached; 30# live load, 5# dead load when attached to dwelling.

Trusses bolted to poles with (2) 5/8" diameter thru bolts each end.

End wall rafter to be min. hem-fir 2 x 12, #2 and better. Blocking between girts or standard bolted 24" corbel block may be used beneath rafter at each pole.

Continuous 2 x 6 bracing required at bottom chord at midpoint of truss. Other truss bracing as required by manufacturer.

Soil bearing pressure -- 2000 psf
Treated lumber -- all lumber with ground contact shall be pressure treated with CCA
Poles: .60 retention
Other: .40 retention

Concrete used in punch pads and collars to be 2000 psi at 28 days.

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

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