

# POLE BUILDING REQUIREMENTS

## *for Lewis County, Washington*

The International Building Code requires the following provisions to be followed in the design and construction of pole type buildings.

1. All poles and posts are to be treated per preservative treatment by pressure processes using the following:
  - a. Standard Specifications C1, C2, C3, C4, C9, C14, C15, C16, C22, C23, C24, C28 and M4, AQPA.
  - b. Standard Specifications CP, LP2, LP3, LP4, LP5, LP7, LP22, LP33, LP44, LP55, LP77.
2. Provide minimum of 6" of concrete at bottom of holes occupied by posts which directly support rafters or roof trusses.
3. Provide minimum embedment of 4'0" for 6"x6" posts and 4'6" for 8"x8" posts or provide engineering data to substantiate lesser embedment for buildings exempt from engineering requirements.
4. Erect all walls and structural framing true and plumb. Bracing to be placed during erection where ever necessary to carry all loads.
5. Be designed to resist minimum horizontal and uplift wind pressures to 85 mph.
6. Have a roof structure with a design snow load per listings on back of page.
7. Have all truss designs stamped by a licensed structural engineer to include maximum spans for each given truss spacing and connection of trusses to poles.
8. Provide adequate anchorage of roof to walls and columns.
9. Backfill the space around columns not embedded in poured concrete by one of the following methods:
  - a. Backfill shall be of concrete with an ultimate strength of 200 psi at 28 days. The hole shall be not less than 4" larger than the diameter of the column.
  - b. Backfill shall be of clean sand. The sand shall be thoroughly compacted by tamping in layers of not more than 8".
10. Inspections:
  - a. Call for hole inspection before backfill. Poles may be set and braced in holes.
  - b. Call for framing inspection at completion of all framing and installation of exterior.

Section 107.1 of the 2009 International Building Code allows the Building Official to require plans, computations and specifications prepared by a licensed architect or engineer. Basic engineering showing the size of pole, depth of embedment, diameter of hole and backfill material, truss design engineering and connection of the roof system to the pole must be submitted for all pole buildings. **EXCEPTION:** Private storage and agricultural buildings (U-1 Occupancies) under 3000 square feet in floor area with an unsupported side wall height less than 14 feet, and a clear span width of less than 40 feet. Note: Truss design engineering required for all buildings.