



# Wichita-Sedgwick County Metropolitan Area Building and Construction Department

## POST AND FRAME (POLE BARN) CONSTRUCTION

### MINIMUM STANDARDS

#### SPACING OF POSTS OR COLUMNS

Douglas fir or Southern Pine (Treated for Ground Contact) All Poles 5" Rough Cut or Larger

#### **Poles Spaced 8' on Center**

2X4 Purlins 2X4 Girts – Side 2X12 Double Header Engineered Trusses 4'on Center

#### Poles Spaced 10' on Center

2X4 Purlins 2X6 Girts – Side 2X12 Double Header Engineered Trusses 5'on Center

DIAMETER OF BORED HOLES	
Width of Building	Diameter and Depth
24 ft	12 in / 4ft
30 ft	14 in / 4 ft
36 ft	16 in / 4 ft
40 ft	17 in / 4 ft

One Bag of Quikrete in Bottom of Hole or Concrete Cookie Pole Holes to be Back Filled with Sand, Road Gravel or Dirt

#### **Sidewall and Headers**

Wood to Carry Grade Stamp of #2 and Better

Girts to be Spaced 30" on Center with Bottom Girt to be Treated for Below Ground Contact

Purlins to be 2X4s at 24" on Center up the Slope of the Roof; Wood to Carry a Grade Stamp of Standard and Better.

All Metal Sheeting to be 29 Gauge Steel or Better

#### 14' **MAXIMUM** Side Wall Height\* 42' **MAXIMUM** Width\* 60' **MAXIMUM** Length\*

\*If building exceeds any one of these dimensions, plans shall be sealed by a State of Kansas licensed engineer.

**Table 32.1** MAXIMUM HEADER SPANS (FT. - IN.) - D.FIR-L, HEM-FIR AND S.Y.P., No.2 GRADE Headers (Exterior Bearing Walls) Roof Live Load (psf) 20 40 50 30 Building Width (ft) The U.S. Span Book for Major Lumber Building Width (ft) Building Width (ft) Building Width (ft) **Headers Supporting** Size 20 28 36 20 28 36 20 28 36 20 28 36 3-3 3-0 2-2 Roof and Ceiling 2-2x4 3-6 3-2 2-10 2 - 102-7 2-7 2-4 2 - 102-5 2-2x6 5-5 4-8 4-2 4-10 4-2 3-9 4-5 3-10 3-5 4-1 3-7 3-2 6-10 5-11 5-4 4-9 5-7 4-0 2-2x8 6-2 5-4 4 - 104-4 5 - 24-6 2-2x10 5-10 6-10 5-4 6-4 4-11 8-5 7-3 6-6 7-6 6-6 5-11 5-6 2-2x12 9-9 8-5 7-6 8-8 7-6 6-9 7-11 6-10 6-2 7-4 6-4 5-8 3-2x8 8-4 7-8 7-0 5-8 5-0 7-5 6-8 6-8 5-11 6-1 5-5 6-6 3-2x10 10-6 9-5 8-7 6-8 7-11 6-10 9-1 8-2 8-2 7-5 6-2 7-3 Species 3-2x12 12-2 10-7 9-5 10-11 9-5 8-5 9-11 8-7 7-8 9-2 8-0 7-2 8-0 4-2x8 9-2 8-4 7-8 8-6 7-8 6-11 7-0 6-3 7-6 6-6 5-10 4-2x10 11-8 10-6 9-5 10-10 9-5 9-11 8-7 7-8 9-2 7-11 7-1 8-5 4-2x12 14-1 12-2 10-11 12-7 10-11 9-9 11-6 9-11 8-11 10-8 9-2 8-3

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U.S. Spans for U.S. Species

These are guidelines only. Metropolitan Area Building and Construction Department are not responsible for loss or failure.

Headers