POLE BUILDING HANDOUT

Unheated, Detached, Residential Accessory Building, Smooth Metal Roof, Slope = 4:12

Sand, Silt or Clay Sand Soil Types, **Ground Snow Load = 60/70 psf** From Figure R301.2 (5) MCR or MRC table R301.2(5)

		20 Foot Wide Building		24 Foot Wide Building		28 Foot Wide Building		30 Foot Wide Building	
Post Spacing	**Grade**	**Truss Carrier Beam**	**Footing Size**	**Truss Carrier Beam**	**Footing Size**	**Truss Carrier Beam**	**Footing Size**	**Truss Carrier Beam**	**Footing Size**
4 FEET	A	**1.75" x 5.5"**	15' dia. (8" thick)	**1.75" x 5.5"**	16' dia. (8" thick)	**1.75" x 5.5"**	18" dia. (8" thick)	**1.75" x 5.5"**	19" dia. (8" thick)
	B	**2" x 10"**		**2" x 10"**		**2" x 10"**		**2" x 12"**	
	C	**2" x 8"**		**2" x 8"**		**2" x 10"**		**2" x 12"**	
6 FEET	A	**1.75" x 7.25"**	18" dia. (8" thick)	**1.75" x 7.25"**	20" dia. (8" thick)	**1.75" x 9.25"**	22" dia. (8" thick)	**1.75" x 9.25"**	23" dia. (10" thick)
	B	**2 - 2" x 10"**		**2 - 2" x 10"**		**2 - 2" x 10"**		**2 - 2" x 12"**	
	C	**2 - 2" x 10"**		**2 - 2" x 10"**		**2 - 2" x 10"**		**2 - 2" x 12"**	
8 FEET	A	**1.75" x 9.25"**	21" dia. (8" thick)	**1.75" x 9.25"**	23" dia. (10" thick)	**1.75" x 11.25"**	25" dia. (10" thick)	**1.75" x 11.25"**	26" dia. (10" thick)
	B	**2 - 2" x 12"**		**3 - 2" x 10"**		**3 - 2" x 12"**		**3 - 2" x 12"**	
	C	**2 - 2" x 12"**		**3 - 2" x 10"**		**3 - 2" x 12"**		**3 - 2" x 12"**	
10 FEET	A	**1.75" x 11.25"**	24" dia. (10" thick)	**1.75" x 11.875"**	26" dia. (10" thick)	**2 - 1.75" x 9.5"**	28" dia. (10" thick)	**2 - 1.75" x 9.5"**	29" dia. (10" thick)
	B	**3 - 2" x 12"**		**4 - 2" x 12"**		**5 - 2" x 12"**		**5 - 2" x 12"**	
	C	**3 - 2" x 12"**		**4 - 2" x 12"**		**4 - 2" x 12"**		**4 - 2" x 12"**	
12 FEET	A	**2 - 1.75" x 9.25"**	26" dia. (10" thick)	**2 - 1.75" x 11.25"**	28" dia. (10" thick)	**2 - 1.75" x 11.25"**	31" dia. (10" thick)	**2 - 1.75" x 11.25"**	32" dia. (10" thick)
	B	**5 - 2" x 12"**		**5 - 2" x 12"**		**6 - 2" x 12"**		No	
	C	**4 - 2" x 12"**		**5 - 2" x 12"**		**5 - 2" x 12"**		**6 - 2" x 12"**	
14 FEET	A	**2 - 1.75" x 11.25"**	28" dia. (10" thick)	**2 - 1.75" x 11.875"**	31" dia. (10" thick)	**3 - 1.75" x 11.25"**	33" dia. (10" thick)	**3 - 1.75" x 11.25"**	34" dia. (10" thick)
	B	**6 - 2" x 12"**		No		No		No	
	C	**5 - 2" x 12"**		**6 - 2" x 12"**		No		No	
16 FEET	A	**3 - 1.75" x 11.25"**	30" dia. (10" thick)	**3 - 1.75" x 11.25"**	33" dia. (10" thick)	**3 - 1.75" x 11.875"**	35" dia. (12" thick)	**4 - 1.75" x 11.25"**	37" dia. (12" thick)
	B	No		No		No		No	
	C	No		No		No		No	
18 FEET	A	**3 - 1.75" x 11.25"**	32" dia. (10" thick)	**4 - 1.75" x 11.25"**	35" dia. (12" thick)	**4 - 1.75" x 11.875"**	37" dia. (12" thick)	**3 - 1.75" x 14"**	39" dia. (12" thick)
	B	No		No		No		No	
	C	No		No		No		No	

		32 Foot Wide Building		36 Foot Wide Building		40 Foot Wide Building		50 Foot Wide Building	
Post Spacing	**Grade**	**Truss Carrier Beam**	**Footing Size**	**Truss Carrier Beam**	**Footing Size**	**Truss Carrier Beam**	**Footing Size**	**Truss Carrier Beam**	**Footing Size**
4 FEET	A	**1.75" x 5.5"**	19" dia. (8" thick)	**1.75" x 7.25"**	20" dia. (8" thick)	**1.75" x 7.25"**	21" dia. (8" thick)	**1.75" x 7.25"**	24" dia. (10" thick)
	B	**2" x 12"**		**2" x 12"**		**2 - 2" x 10"**		**2 - 2" x 10"**	
	C	**2" x 12"**		**2" x 12"**		**2" x 12"**		**2 - 2" x 10"**	
6 FEET	A	**1.75" x 9.25"**	23" dia. (10" thick)	**1.75" x 9.25"**	25" dia. (10" thick)	**1.75" x 9.25"**	26" dia. (10" thick)	**1.75" x 11.25"**	29" dia. (10" thick)
	B	**2 - 2" x 12"**		**3 - 2" x 10"**		**3 - 2" x 10"**		**3 - 2" x 12"**	
	C	**2 - 2" x 12"**		**3 - 2" x 12"**		**3 - 2" x 10"**		**3 - 2" x 12"**	
8 FEET	A	**1.75" x 11.25"**	27" dia. (10" thick)	**1.75" x 11.875"**	28" dia. (10" thick)	**2 - 1.75" x 9.25"**	30" dia. (10" thick)	**2 - 1.75" x 11.25"**	33" dia. (10" thick)
	B	**3 - 2" x 12"**		**4 - 2" x 12"**		**4 - 2" x 12"**		**5 - 2" x 12"**	
	C	**3 - 2" x 12"**		**3 - 2" x 12"**		**4 - 2" x 12"**		**5 - 2" x 12"**	
10 FEET	A	**2 - 1.75" x 11.25"**	30" dia. (10" thick)	**2 - 1.75" x 11.25"**	32" dia. (10" thick)	**2 - 1.75" x 11.25"**	33" dia. (10" thick)	**3 - 1.75" x 11.25"**	37" dia. (12" thick)
	B	**5 - 2" x 12"**		**5 - 2" x 12"**		**6 - 2" x 12"**		No	
	C	**5 - 2" x 12"**		**5 - 2" x 12"**		**6 - 2" x 12"**		No	
12 FEET	A	**2 - 1.75" x 11.875"**	33" dia. (10" thick)	**3 - 1.75" x 11.25"**	35" dia. (12" thick)	**3 - 1.75" x 11.25"**	37" dia. (12" thick)	**4 - 1.75" x 11.25"**	41" dia. (12" thick)
	B	No		No		No		No	
	C	**6 - 2" x 12"**		No		No		No	
14 FEET	A	**3 - 1.75" x 11.25"**	35' dia. (12" thick)	**3 - 1.75" x 11.875"**	37" dia. (12" thick)	**4 - 1.75" x 11.25"**	39" dia. (12" thick)	**3 - 1.75" x 14"**	44" dia. (12" thick)
	B	No		No		No		No	
	C	No		No		No		No	
16 FEET	A	**4 - 1.75" x 11.25"**	38" dia. (12" thick)	**4 - 1.75" x 11.875"**	40" dia. (12" thick)	**4 - 1.75" x 14"**	42" dia. (12" thick)	**4 - 1.75" x 14"**	47" dia. (12" thick)
	B	No		No		No		No	
	C	No		No		No		No	
18 FEET	A	**4 - 1.75" x 14"**	40" dia. (12" thick)	**4 - 1.75" x 14"**	42" dia. (12" thick)	**4 - 1.75" x 14"**	45" dia. (12" thick)	**4 - 1.75" x 16"**	50" dia. (12" thick)
	B	No		No		No		No	
	C	No		No		No		No	

****ALL FOOTINGS 48" TO THE BOTTOM OF THE HOLE.**

Lumber Grade Legend

A - Laminated Veneer Lumber, Fo = 2,600 psi, Fv = 285 psi, E = 1,900,000 psi

B – Hem-Fir #2, Fo = 850 psi, Fv = 150 psi, E = 1,300,000 psi

C – Southern Yellow Pine #2, Fo = 975 psi, Fv = 175 psi, E = 1,600,000 psi