



**PLANNING & DEVELOPMENT**

1100 Patricia Blvd. | Prince George, BC, Canada V2L 3V9

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**Residential Pad/Footing Sizing Table**

Point Load, (max lbs.) (Service load)	Pad Footings		Strip Footing Capacities (Centered at Post)						Built-Up Column (minimum size)		
	Size (W x W x T)	Reinforcement	4'-0" max height frost wall (W x T)	Reinforcement	8'-0" max height frost wall (W x T)	Reinforcement	9'-0" max height frost wall (W x T)	Reinforcement	8'-0" max height	10'-0" max height	12'-0" max height
6,000	2'-0" x 2'-0" x 8"	3 - 15M EW	-	-	-	-	-	-	2 ply 2x6	2 ply 2x6 blocking @ 48" OC	2 ply 2x6 blocking @ 48" OC
8,000	2'-3" x 2'-3" x 8"	3 - 15M EW	-	-	-	-	-	-	3 ply 2x6	4 ply 2x6	4 ply 2x6
10,000	2'-6" x 2'-6" x 10"	4 - 15M EW	1' 8" x 10"	3 - 15M LW BOT CONT 15M @ 12" OC SW BOT	-	-	-	-	3 ply 2x6	4 ply 2x6	4 ply 2x6
12,000	2'-9" x 2'-9" x 10"	4 - 15M EW	2' 0" x 10"	3 - 15M LW BOT CONT 15M @ 12" OC SW BOT	-	-	-	-	4 ply 2x6	4 ply 2x6	5 ply 2x6 blocking @ 48" OC
14,000	3'-0" x 3'-0" x 12"	4 - 15M EW	2' 3" x 10"	3 - 15M LW BOT CONT 15M @ 12" OC SW BOT	-	-	-	-	4 ply 2x6	4 ply 2x6	5 ply 2x6 blocking @ 48" OC
18,000	3'-6" x 3'-6" x 12"	4 - 15M EW	3' 0" x 12"	4 - 15M LW BOT CONT 15M @ 10" OC SW BOT	1' 6" x 10"	3 - 15M LW BOT CONT 15M @ 12" OC SW BOT	-	-	5 ply 2x6 blocking @ 48" OC	5 ply 2x6 blocking @ 48" OC	6 ply 2x6 blocking @ 48" OC
20,000	3'-9" x 3'-9" x 12"	5 - 15M EW	3' 6" x 12"	4 - 15M LW BOT CONT 15M @ 10" OC SW BOT	1' 8" x 10"	4 - 15M LW BOT CONT 15M @ 12" OC SW BOT	1' 6" x 10"	3 - 15M LW BOT CONT. 15M @ 12" OC SW BOT	4 ply 2x8	5 ply 2x8	5 ply 2x8
25,000	4'-0" x 4'-0" x 14"	5 - 15M EW	Refer to Pad Sizes	Refer to Pad Reinf.	2' 0" x 10"	4 - 15M LW BOT CONT 15M @ 12" OC SW BOT	1' 10" x 10"	3 - 15M LW BOT CONT 15M @ 12" OC SW BOT	5 ply 2x8	St. P.Eng req.	St. P.Eng req.
30,000	4'-6" x 4'-6" x 14"	5 - 15M EW	Refer to Pad Sizes	Refer to Pad Reinf.	2' 6" x 10"	4 - 15M LW BOT CONT 15M @ 12" OC SW BOT	2' 2" x 10"	3 - 15M LW BOT CONT 15M @ 12" OC SW BOT	St. P.Eng req.	St. P.Eng req.	St. P.Eng req.
35,000	4'-9" x 4'-9" x 14"	6 - 15M EW	Refer to Pad Sizes	Refer to Pad Reinf.	2' 10" x 10"	4 - 15M LW BOT CONT 15M @ 12" OC SW BOT	2' 6" x 10"	4 - 15M LW BOT CONT 15M @ 12" OC SW BOT	St. P.Eng req.	St. P.Eng req.	St. P.Eng req.
40,000	5'-0" x 5'-0" x 14"	6 - 15M EW	Refer to Pad Sizes	Refer to Pad Reinf.	3' 3" x 12"	4 - 15M LW BOT CONT 15M @ 10" OC SW BOT	3' 0" x 12"	4 - 15M LW BOT CONT 15M @ 10" OC SW BOT	St. P.Eng req.	St. P.Eng req.	St. P.Eng req.

**Legend:**  
 Loads under 4,000 lbs. require no additional consideration  
 = Pad Footings  
 = Strip Footings  
 = Built-Up Column  
 = Must be designed by a Professional Structural Engineer registered in British Columbia

**Notes (General):**  
 This information has been prepared for the user's convenience only and it is solely at the user's discretion whether to use this information as is or to retain a Professional Structural Engineer.  
 This table has been prepared in consultation with a Professional Structural Engineer.  
 Minimum allowable soil bearing pressure = 75 kPa (1,560 psf)  
 Concrete minimum 28 day strength = 25 MPa, Reinforcing steel Fy = 400 Mpa

**Notes:**  
 (W x W x T) = Width x Width x Thickness  
 EW = Each Way

**Notes:**  
 - = No strip footing change is necessary  
 (W x T) = Width x Thickness  
 LW = Lengthwise  
 BOT = Bottom  
 CONT = Continuous  
 OC = On Centre  
 SW = Side Ways

**Notes:**  
 Minimum S-P-F #2 grade, nailed in accordance with CSA 086  
 OC = On Centre

Strip footing assumed to be 16" typical. Enlargement to be centered at wall and extend min 1/2 frost wall depth to either side of point load.  
 Footing to be designed by structural engineer where 2 or more point loads overlap footing enlargement extent



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**Residential Over-Height Wall Table**

		Wall Height			
		12'	16'	18'	20'
Roof Truss Clear Span	20'	2x6 @ 16" OC	2x6 @ 16" OC	2x6 @ 12" OC	2x8 @ 16" OC
	24'	2x6 @ 16" OC	2x6 @ 16" OC	2x6 @ 12" OC	2x8 @ 16" OC
	28'	2x6 @ 16" OC	2x6 @ 16" OC	2x6 @ 12" OC	2x8 @ 16" OC
	30'	2x6 @ 16" OC	2x6 @ 16" OC	2x6 @ 12" OC	2x8 @ 16" OC
	40'	2x6 @ 16" OC	2x6 @ 16" OC	2x6 @ 12" OC	2x8 @ 16" OC

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This table has been prepared in consultation with a Professional Structural Engineer.

Local Wind And Snow Loads for Prince George were used as per BCBC 2012

Horizontal blocking a 4' OC is required

OC = On Centre

**Notes:**

Openings up to 2m (6'-6") wide are permitted with 2 king studs and 2 jack studs on each end of the opening.

**Notes:**

Openings up to 2m (6'-6") wide are permitted with 3 king studs and 2 jack studs on each end of the opening.

2x8 @ 16" may be substituted for 2x6 @ 12"