

Allowable Loads on Square Foot Footing Models SF22, SF28 and SF32

Per OBC 2012 Vol.2 Table 9.4.4.1

Soil Type	Maximum Allowable Bearing Pressure psf - kPa		Model SF22 Allowable Loads lbs - kN		Model SF28 Allowable Loads lbs - kN		Model SF32 Allowable Loads lbs - kN	
	psf	kPa	lbs	kN	lbs	kN	lbs	kN
Soft Clay	833.4	40	2807	12.5	4548	20.2	5957	26.5
Loose Sand or Gravel	1041.7	50	3510	15.6	5685	25.3	7419	33
Firm Clay	1562.5	75	5264	23.4	8528	37.9	11240	50
Dense or Compact Silt	2083.4	100	7020	31.2	11371	50.6	14837	66
Dense or Compact Gravel or Sand	3125	150	10529	46.8	17056	75.9	22256	99
Stiff Clay	3125	150	10529	46.8	17056	75.9	22256	99
Till	4166.7	200	14039	62.4	22742	101.2	29675	132
Clay Shale	6250	300	21060	93.7	34113	151.7	44512	198
Sound Rock	10416.7	500	35100	156.1	56855	253	74186	330

- 1) The allowable loads shown conform to the Ontario Building Code, 2012.
- 2) Minimum concrete compressive strength shall be 25 mPa.
- 3) Gravity loads include only dead loads (weight of construction materials) and service loads such as snow loads. Pier design and their ability to resist lateral and uplift loads is beyond the scope of this table.
- 4) Piers requiring design for earthquake loads shall be designed by a qualified Professional Engineer.
- 5) Maximum lift when pouring concrete is 405 mm (16 inches).
- 6) Sound Footing forms are not intended as a substitute foundation system for the full foundations commonly used under residential housing unless they have been designed to do so by a qualified professional engineer.

