



SQUARE FOOT® USA

BOCA PRESUMPTIVE LOAD BEARING VALUES OF FOUNDATION MATERIALS

USA
BOCA BUILDING CODE
BOCA TABLE 1804.3

COMPARISON OF ALLOWABLE LOADS/CARRYING CAPACITY BASED ON SOIL TYPE

COMPARISON
SF 22 TO BX 24

COMPARISON
SF 28 TO BX 28

COMPARISON
SF 32 TO BX 28

COMPARISON
SF 32 TO BX 36

Soil Description	Allow-able Soil Bearing Pres-sure	Allow-able Soil Bearing pres-sure	COMPARISON SF 22 TO BX 24		COMPARISON SF 28 TO BX 28		SF22 ALLOWS MORE BEARING PRESSURE THAN BX24	COMPARISON SF 28 TO BX 28		COMPARISON SF 28 TO BX 28		SF28 ALLOWS MORE BEARING PRESSURE THAN BX28	COMPARISON SF 32 TO BX 28		COMPARISON SF 32 TO BX 28		SF32 ALLOWS MORE BEARING PRESSURE THAN BX28	COMPARISON SF 32 TO BX 36		COMPARISON SF 32 TO BX 36		SF 32 ALLOWS MORE BEARING PRESSURE THAN BX 36
			BX 24	BX 24	SF 22	SF 22		BX 28	BX 28	SF 28	SF 28		BX 28	BX 28	SF 32	SF 32		BX 36	BX 36	SF 32	SF 32	
Calculation Description	kPs	psf	lbs	kN	lbs	kN	lbs	lbs	kN	lbs	kN	lbs	lbs	kN	lbs	kN	lbs	lbs	kN	lbs	kN	lbs
Crystalline Rock	575	12000	37704	68	40230	180	2616	51360	229	65280	291	13920	51360	229	85200	380	33840	84840	379	85200	380	360
Sedimentary Rock	287	6000	18852	84	20160	90	1308	25680	115	32640	146	6960	25680	115	42600	190	16920	42420	189	42600	190	180
Sandy Gravel or Gravel	239	5000	15710	70	16800	75	1090	21400	96	27200	121	5800	21410	96	35500	158	14100	35350	158	35500	158	150
Sandy, Silty Sand, Clayey Sand, Silty Gravel and Clayey Gravel	144	3000	9426	42	10080	45	654	12840	57	16320	73	3480	12840	57	21300	95	8460	21210	95	21300	95	90
Clay, Sandy Clay, Silty Clay and Clayey Silt	96	2000	6284	28	6720	30	436	8560	38	10880	49	2320	8560	38	14200	63	5640	14140	63	14200	63	60
Soft Clay	48	1000	3142	14	3360	15	218	4280	19	5440	24	1160	4280	19	7100	32	2820	7070	32	7100	32	30

MODEL #	Square Feet of Area in Base
SF 22	3.36
SF 28	5.44
SF 32	7.10
BX 24	3.14
BX 28	4.28
BX 36	7.07

**SQUARE FOOT® CONCRETE FOOTING FORMS
ALLOW MORE SOIL BEARING PRESSURE THAN
ANY PLASTIC FOOTING FORM IN THE MARKET!**

**Reference: BOCA Table 1804.3
Page 206, BOCA Building Code (USA)
Using BOCA 1996 Standards / No revisions in 1998 Addendum to 1996**