

Cash Saver Generator Pad ^{1 of 2}

6" Concrete Driveway

$$.5' \times 19.3' \times 7.3' \times 150 \#/\text{ft}^3 = 1,447.5 \#$$

$$1,447.5 \# \div (19.3' \times 7.3') = \boxed{10.27 \text{ psf}}$$

7" Concrete Slab (on top of drive)

$$\frac{7}{12}' \times 19.3' \times 7.3' \times 150 \#/\text{ft}^3 = 1,688.75 \#$$

$$1,688.75 \# \div (19.3' \times 7.3') = \boxed{11.99 \text{ psf}}$$

6" CMU wall filled with concrete

$$\left(\frac{6}{12}\right) \times 19.3' \times 2.83' \text{ tall} \times 150 \#/\text{ft}^3 = 4,096.4 \#$$

$$4,096.4 \# \div 19.3' = \boxed{212.25 \text{ PLF}}$$
 (along outer edge of concrete pad & two interior support walls.

Compacted fill material estimated @ 100 pcf

$$6' \times 5.5' \times 2.83' \text{ tall compacted backfill} \times 100 \#/\text{ft}^3 = 9,339 \#$$

$$9,339 \# \div (6' \times 5.5') = \boxed{283 \text{ psf}}$$

Upper Concrete Slab same as the one on bottom

$$1,688.75 \#$$

but this weight is carried down only on top

of CMU wall. So $\frac{1}{2}$ will go left & $\frac{1}{2}$

will go right, the slab is 7.3' wide so each

CMU wall will be supporting 3.65 ft so

$$3.65' \times \frac{7}{12} \times 150 \text{ pcf} = \boxed{319 \#/\text{Linear foot of wall}}$$

The generator is sitting on top of a fuel tank & receives its support via support beam running the long side of the generator

The generator weighs 9,250# & full fuel = 4,250#
Total = 13,500# ÷ 2 sides = 6,750# each side.

The generator sits atop of beam 17.08ft long
so, the distributed load to beam = 395.20 #/lin ft

The weights below outer walls of Chain Wall

Generator	=	395.2#/LF
Upper Slab	=	319.0#/LF
The Wall itself	=	212.25#/LF
Lower Slab	=	11.9#/LF
Concrete Drive	=	10.27#/LF
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		947.75#/LF

Since CMU is 6" wide this is 1895.5 #/s.f.