



PRECAST VS. CONVENTIONAL

CONVENTIONAL 12" DIA SONO TUBE:
 ALLOWABLE LOAD BEARING AT SOIL =
 ALLOWABLE BEARING CAPACITY * AREA =
 $2000\text{PSF} * (0.5 * 0.5 * 3.142) = 1571\text{LBS}$
 MAX LOAD BEARING IS 1571LBS

PRECAST FOOTING
 ALLOWABLE LOAD BEARING AT TOP =
 CONCRETE PSI * AREA / SAFTEY FACTOR
 $4000\text{PSI} * (8 * 8) / 2.22 = 115,315\text{LBS}$

ALLOWABLE LOAD BEARING AT SOIL =
 ALLOWABLE BEARING CAPACITY * AREA =
 $2000\text{PSF} * (2.2) = 8,000\text{LBS}$

THEREFORE MAX ALLOWABLE LOAD APPLIED
 IS LIMITED BY THE SOILS CAPACITY OF
 8,000LBS WHICH IS GREATER THAN THE MAX
 LOAD OF 1571LBS FOR THE 12" SONOTUBE

4000 PSI CONCRETE @ 28 DAYS
 CALCULATIONS BASED ON SOIL PRESSURE OF 2000 PSF
 WEIGHT = 750LBS +/-

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