



PRECAST VS. CONVENTIONAL

CONVENTIONAL 12" DIAMETER SONOTUBE:
 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 1,571LBS

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

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 1,571LBS FOR THE 12" SONOTUBE

ITEM	WEIGHT
SONA4	624
SONA5	725

- GENERAL NOTES:
 1. CONCRETE 4000 PSI IN 28 DAYS.
 2. CALCULATIONS BASED ON SOIL PRESSURE OF 2000 PSF.



New England's Premier Precaster
 800-696-7432 (SHEA)
 www.sheaconcrete.com

FOOTING/FROST POST
 SONATUBE 8" SQUARE

773 Salem Street—Wilmington, MA 153 Cranberry Hwy—Rochester, MA
 87 Haverhill Road—Amesbury, MA 160 Old Turnpike Rd—Nottingham, NH
 Mail to: PO Box 520—Wilmington, MA 01887

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