



## PRECAST VS. CONVENTIONAL

CONVENTIONAL 12" DIAMETER SONOTUBE: ALLOWABLE LOAD BEARING AT SOIL = ALLOWABLE BEARING CAPACITY \* AREA = 2000PSF \* (0.5\*0.5\*3.142) = 1571LBSMAX LOAD BEARING IS 1,571LBS

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

ALLOWABLE LOAD BEARING AT SOIL = ALLOWABLE BEARING CAPACITY \* AREA = 2000PSF \* (2\*2) = 8,000LBS

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.

87 Haverhill Road

4	SH	EA
	CONCRETE	PRODUCTS

New England's Premier Precaster 800-696-7432 (SHEA)

www.sheaconcrete.com

160 Old Turnpike Road Nottingham, NH 03290

FOOTING/FROST POST SONATUBE 8" SQUARE

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SONATUBE8SQ.dwg

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