

Roth MultiTankCertified Installers Handbook 2011



4. INSTALLATION TRAINING MATERIAL

It is highly recommended that all tanks be filled with water immediately after installation or immediately after pumping for existing tanks.

Roth tanks can be "anchored" by pouring a concrete apron around the midpoint of the tank using the excavation as a form. This detail is shown below.

Details Provided by APPIAN Consulting Engineers — www.appianengineers.com

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TOP

RESTRAINING COLLAR FOR HIGH GROUNDWATER

GENERAL NOTE:

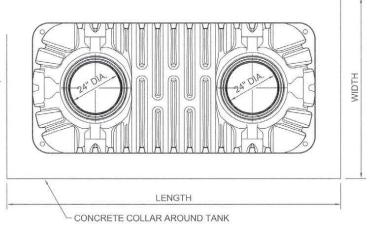
1. THE BUOYANCY RESTRAINING COLLAR DESIGN IS BASED ON BUOYANCE CALCULATIONS AVAILABLE ON REQUEST FROM ROTH

CONCRETE NOTES:

- 1. PROVIDE CONCRETE TO OBTAIN THE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- 2. CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH ACI-318-99 (BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE) AND ACI-301-LATEST EDITION (SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS).

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE BILLET STEEL CONFORMING TO STANDARDS OF ASTM A615, GRADE 60.



CONCRETE COLLAR SPECS

TANK MODEL	ST-500	ST-750	ST-1060	ST-1250	ST-1500
WIDTH (FEET)	7'-0"	7'-0"	7'-6"	7'-6"	7'-6"
LENGTH (FEET)	7'-0"	10'-6"	12'-0"	14'-0"	16'-6"
FACTOR-OF-SAFETY AGAINST FLOATING	2.96	2.15	2.09	2.10	2.02

2#4 CONTINOUS

CLEAR

2#4 CONTINOUS

CONCRETE COLLAR

AROUND TANK

SIDE

DWG SCALE: 1:1 PLOT SCALE: 1:2 SHEET #:

Roth MultiTank Buoyancy Restraining System

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