



**RHINO TUFF TANKS LLC**

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# Rhino Tuff Tanks Gravity Feed System Installation & Assembly Instructions

## GENERAL

Rhino Tuff Tanks provides NONMETALLIC BULK CONTAINERS FOR THE STORAGE AND DISPENSING OF COMBUSTIBLE AND NON-COMBUSTIBLE LIQUIDS through a gravity feed system.

Sizes are as follows: 45 US gal (170 L) short, 60 US gal (228 L), 80 US gal (303 L), 120 US gal (454 L), 180 US gal (681 L), 225 US gal (852 L) and 310 US gal (1173 L). See the STACKABLE ASSEMBLY INSTRUCTIONS for certified stackable configurations.

The installer is to ensure that the container being installed bears the label of a certifying agency. The installation shall be in accordance with, but no limited to, the following documents:

- A. National Fire Code of Canada;
- B. CCME-EPC-LST-71E, Environmental Code of Practice for Aboveground Storage Tank Systems Containing Petroleum Products; and
- C. Regulations of the authority having jurisdiction

## INSTALLATION SITE/LOCATION

The installer shall take into consideration clearance, visibility, moving traffic and access both to the container as well as the container fittings, when installing the container.

For containers installed inside a building, the following criteria shall be met:

- A. The container is placed onto a poured concrete slab or a pre-cast slab or such that support legs are not in direct contact with gravel or soil;
- B. Minimum 100 mm (4 in) clearance exists beneath the container; and
- C. Minimum 30 mm (1.2 in) clearance is maintained from wall(s)

For fire prevention and control, refer to the National Building Code of Canada.



## **STACKABLE ASSEMBLY INSTRUCTIONS**

- Step 1: Screw threaded end of each of the four — 1.5 inch NPT x 24 inch long pipe leg into couplers on under-side of stand base.
- Step 2: Attach drip tray holder to front legs of stand base. Leave ample space for your decentering container below the dispenser valve(s).
- Step 3: Place drip tray insert pans with screen into the drip tray holder spaces.
- Step 4: Attach elbow kit(s) to front lip of the stand base, using ½ inch wrench. Repeat as necessary.
- Step 5: The stand base with legs must be placed onto a poured concrete slab or a pre-cast slab or such that support legs are not in direct contact with gravel or soil.

Stack all tanks vertically on stand base with the drain outlets/front of the tank facing forward. Tanks will interlock snugly, resisting any pressure front-to-back or side-to-side.

Recommended Stacking Configurations are as follows:

- a. Twin, Triple or Quad 45 US gal (170 L) short Complete Gravity Feed System
- b. Single, Twin, Triple or Quad 60 US gal (228L) Complete Gravity Feed System
- c. Twin or Triple 80 US gal (303 L) Complete Gravity Feed System
- d. Twin 120 US gal (454 L) Complete Gravity Feed System
- e. 80 US gal (303 L) / 120 US gal (454 L) Combination Complete Gravity Feed System
- f. Individual 225 US gal (852 L) Complete Gravity Feed System
- g. Double 120 US gal (454 L) / Single 60 US gal (228L)\*
- h. 120 US gal (454 L) / 180 US gal (681 L) Combination Complete Gravity Feed System \*
- i. Single 180 (681L) / Double 60(228L)\*
- j. Triple 120 US gal (454 L) Complete Gravity Feed System \*



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- k. Twin 180 US gal (681 L) Complete Gravity Feed System \*
- l. Double 80 US gal (303 L) / Double 60 US gal (228L)\*
- m. Individual 310 US gal (1173 L) Complete Gravity Feed System \*

Notes: \* The maximum length of legs on the stand base is 24 inches and RTT recommends that the smaller sized tanks be placed on top of larger sized tanks.

Step 6: To ensure stability of the stacked tanks, RTT requires the use of 1.5 inch NPT threaded floor flanges be attached to each of the 24 inch long stand base legs and this installation configuration secured using concrete anchoring screws/bolts.

Step 7: The openings on drain ports and elbow kits are 1 inch NPT.

\*\* All threaded fittings must be coated with sufficient pipe thread sealant to prevent leakage.

Install a dispensing valve directly into bottom tank drain port. Install additional dispensing valves into elbow kits on the stand base.

Step 8: Install poly elbow(s) into stacked tank(s) drain port. Angle poly elbows towards the 5 o'clock position, aiming to its corresponding base stand elbow kit. Repeat as necessary.

\*\* Remember to sufficiently coat all threaded fittings with pipe thread sealant to prevent leakage.

Step 9: Install poly union(s) into stand base elbow kit(s). The stand base elbow kit(s) are naturally angled at the 12 o'clock position. This allows a naturally straight path for the poly tubing to follow, thus preventing a potential kink. Repeat as necessary.

\*\* Again, sufficiently coat all threaded fittings with pipe thread sealant to prevent leakage.

Step 10: Cut to length and attach clear braided poly tubing to the barbed ends of the poly elbow(s) & poly union(s). RTT recommends using a hose clamp on each end to secure each connection.

Step 11: Verify that the tanks are on the stand base interlocked snugly and in its final position before filling.

Fill each tank. Be sure to double check each fitting for leaks. Stop filling tanks when the level reaches capacity. RTT is not responsible for fluid loss or clean-up costs.