

## Septic Tank General Notes & Installation Guidelines

**MINIMUM HANDLING!** - Handle all tanks with care and minimum amount of handling.  
Tank must be strapped down when transporting and deck must be free of rocks and protrusions.

All tanks delivered and installed by Grosso Pre-Cast are guaranteed, subject to **Standard Practice Manual** guidelines being met. Tanks not installed by Grosso Pre-Cast subject to a limited guarantee.

1. When installing septic tanks, a spreader bar sling is required to keep pressure off sides of tank. Cables should never be pulled up and over sides of tank. With no spreader bar, damage may occur to tank, keyway or both.
2. Ensure hole that tank is being placed in is large enough to accommodate setting of tank with spreader bar sling. This prevents unwanted material from entering hole.
3. Ensure that the bottom of hole is clear of protrusions such as rocks or roots. For this purpose, a 4 inch bed of sand should be spread to at least 6 inches beyond the dimensions of tank.

This also prevents voids from occurring under bottom and creating unnecessary pressure and stress on the bottom of the tank.

4. Once the bottom of the tank is set in hole level, be sure both top and bottom keyways are dry and clean of dirt, rocks, pebbles or any other material that may interfere with the seal of tank. A brush should be used to clean concrete surface.

5. Apply sealant. Conseal 101 1" (w) x 3/4" (h) is recommended. Follow steps 1 through 4 on horizontal joint install guideline. In addition, Conseal should be applied to top of joint. Allow for a 48-hour drying period before water test or vacuum test is performed.

6. When installing top piece of tank, ensure top is hanging level in sling. This allows for an even placement of top on bottom without dragging or removing any sealant from keyway. Also be sure inlet and outlet are the direction you need them to be, before setting the top of tank on the bottom. If for any reason the top must be separated from bottom, you must completely remove all sealant from both top and bottom, reseal and put back together. It is extremely important to get it right the first time, as damage can occur to keyway when trying to separate sealed pieces.

7. Backfilling of tank in hole requires gently placing material back around tank evenly and taking precautions not to allow rocks to collide with any portion of tank. Under no circumstances should the tank be adjusted once it is sealed together in hole. (i.e. moved with backhoe or nudged with bucket). If compaction is required, please fill tank with water evenly as backfill stages are being performed to equalize pressure on both sides of tank walls.

**Failure to comply with any & or all of the above guidelines will void warranty.**

- TYPICAL WALL THICKNESS 3" - TANK READY FOR REQUIRED FILTER - 4-6% ENTRAINED AIR
- MINIMUM 32 MPA @ 28 DAYS - 4" PVC TEES ARE USED FOR BAFFLES
- TYPE 10 PORTLAND CEMENT (TYPE 50 AVAILABLE UPON REQUEST)
- IN & OUT FITTED WITH POLYLOK III BOOTS & STAINLESS STEEL CLAMPS
- REINFORCED WITH 4 x 4 10/10 GAUGE MESH WITH FIBREMESH, TYPICAL IN ALL WALLS
- DRAWINGS OF TANKS ARE NOT TO SCALE & MAY VARY SLIGHTLY FROM ACTUAL PRODUCT
- ALL TANKS ARE BC APPROVED AND CONFORM TO CSA AND B-66- 05 SUPPLEMENTAL REGULATIONS AND STANDARD PRACTICE MANUAL
- FOR EXTRA REINFORCING, PLEASE REFER TO CATALOGUE PAGE #100
- STANDARD LIDS ARE RATED FOR 1 m OF COVER WITH A 2:1 SAFETY FACTOR. DEEPER BURIAL REQUIRES CONSULTATION BY GROSSO PRE-CAST
- 1M MAXIMUM DEPTH OF BURY FOR DRY GRANULAR MATERIAL - NORMAL CONDITIONS
- FOR SATURATED GRANULAR MATERIAL IMPORT ROAD CRUSH, BEDDING SAND, OR PEA GRAVEL ONLY IF TANKS ARE STEEL RE-INFORCED
- DO NOT USE DRY CLAY MATERIAL IMPORT DRY GRANULAR MATERIAL
- DO NOT USE SATURATED CLAY MATERIAL IMPORT DRY GRANULAR MATERIAL
- IF PERFORMING A WATER TEST, BACKFILL TANK ACCORDING TO SPM PROCEDURES, FILL WITH WATER TO OUTLET LEVEL, HOLD FOR 30 MIN AND OBSERVE NO WATER LEVEL DROP AS PER CSA B66-05 WATER TIGHTNESS TEST SEC. 9.4 ALSO PERFORM VISUAL TEST WHEREVER POSSIBLE
- IF HIGH GROUNDWATER IS AN ISSUE INSTALL A CURTAIN DRAIN AND PUMP
- IN EXTREME CASES USE ANTI FLOATATION CALCULATION IN SPM TO HOLD TANK IN PLACE