

# **DAN'S PRECAST LTD.**

## **SEPTIC TANK INSTALLATION GUIDE**

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### **Septic Tank General Notes & Installation Guidelines**

**Always remember – Handle all tanks with care and minimum amount of handling**

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

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### **Step By Step Installation Guidelines**

- 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 the 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. When in completely dry conditions a 2 inch bed of sand should be spread to at least 6 inches beyond the dimensions of the tank. If water is present in the hole you must have a bed of pea gravel,  $\frac{3}{4}$  inch drain rock or road base. This also prevents voids from occurring under bottom and creating unnecessary pressure and stress on bottom of the tank.
- 4.** When installing a clam shell tank -Once the bottom of the tank is set in hole level, be sure both top and bottom keyways are clean of dirt, rock, and 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 CS665 (3/4 inch is recommended). In addition Conseal should be applied to top of joint (1 inch is recommended). 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 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.

8. When backfilling material becomes saturated with water because of winter conditions rain or snow it's important to use dry granular material i.e. pea gravel,  $\frac{3}{4}$  drain rock or road base be used. Never use dry or saturated clay material. 1m maximum depth of burial for dry granular material – normal conditions

9. If high groundwater is an issue install a curtain drain and pump.

10. In extreme cases use anti-floatation calculation is SPM to hold tank in place.

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**FAILURE TO COMPLY WITH ANY & OR ALL OF THE ABOVE GUIDELINES WILL VOID WARRANTY.**