



March 9, 2015

SKAW PRECAST  
JACK SKAW  
26255 105TH STREET  
NEW AUBURN WI 54757

Re: Description: SEWAGE TANKS, CONCRETE  
Manufacturer: SKAW PRECAST  
Product Name: HOLDING TANKS  
Model Number(s): WS 2000 AND WS 2500  
(24 IN. L.L. FOR 2000.36 GAL. TANK; 30 IN. L.L. FOR 2500.20 GAL. TANK, 83.34  
GAL/IN., 96 IN.  
MAX. DEPTH OF BURY; TANK DIMENSIONS (OD) = 205 IN. L X 102.5 IN. W X 40 IN. H)  
Product File No: 20150015

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of March 2020.**

This approval is contingent upon compliance with the following stipulation(s):

- This tank must be designed to withstand the pressures to which it will be subjected.
- The manufacturer must keep at the manufacturing plant a set of plans and specifications bearing the department's stamp of approval. The plans and specifications must be open to inspection by an authorized representative of the department.
- This product is approved to use the following:
  - Four inch pipe inlet located in the edge of the tank cover.
  - Four inch discharge opening in riser.
  - Two inch schedule 40 PVC cast in riser for electrical wiring.
  - Four inch pipe openings located near the bottom of the side or end wall for siphon, pump and holding tanks.
  - Steel locking cover for the access opening.
  - Pipe materials constructed in conformance with Table SPS 384.30-2 or 384.30-11, Wis. Admin. Code poured into tank cover or access cover.
  - Eight inch threaded plugged opening in access cover.
  - Six-inch diameter opening in lower portion of the interior wall for siphon, pump and holding tanks.
  - Department approved effluent filter installed in accordance with the product approval for the filter including a properly sized and located access opening for service and maintenance.
  - Press Seal "Cast-A-Seal" gasket by Press Seal Gasket Corp.
- **BEDDING:** After excavating to grade, the floor of the tank hole must have all rocks removed that are golf ball size or larger. This applies to soil that is not hard packed clay or rock. If the floor of the hole is hard packed clay or rock, then the hole must be dug deeper to accommodate a lift for sand (no rock) at least 3 inches deep to bring the excavation to the desired grade level.  
**NOTE 1:** Sand is required for tanks that are going to be buried with five or more feet of dirt. Clean no clay content gravel can be used for tanks that have less than five feet of dirt. The rocks that are bigger than golf balls should be removed. The sand rock ratio should be at least 50% sand. Clay should not be distributed along the floor of the tank.

NOTE 2: The bottom of the tank hole should be graded as such. Keep the center of the hole about 0.5 to 1.0 inches lower than the sides of the hole where the tank walls will rest. If there is a high spot in the middle of the hole, the tank will settle and push up or crack the floor of the tank. The floors are only three or four inches thick and are not made to withstand the pressure of the dirt on top of the tank. The cover and walls are made to withstand this pressure so it is very important not to have the center of your hole graded too high.

- **BACKFILL:** When a tank is ready to be buried/backfilled, start by using a backhoe and gently place material on the cover of the tank. At the same time gently place material starting at the corners of the tank. Allow the material placed on the corners to slide down towards the center of the side walls and ends of the tank. This should be done at all corners of the tank at the same time so the tank does not slide around in the bottom of the hole.

NOTE 1: Too much material applied to any one side of the tank without material on the other side or top of the tank may cause the sidewalls of the tank to crack or slide the tank horizontally in the bottom of the hole.

NOTE 2: When applying any material as backfill or bury always lower your backhoe bucket to an elevation near (within 12 inches) the grade of the tank cover and empty the bucket of the backhoe slowly. This prevents a large amount of material from "plopping" downward suddenly causing undue stress to the vertical walls and cover of tank.

NOTE 3: Rocks or stones any larger than 4 inches in diameter should not come into contact with any part of the concrete tank structure at any time.

WARNING: Stones or rocks larger than 4 inches in diameter could damage the structure of the tank. This can happen especially if the larger stone or rock falls or rolls into contact with any part of the tank structure.

When finish grading is being accomplished, never drive equipment directly on top of the tank installation. Do not allow tires or tracks of equipment to travel parallel to the tank on material that has just been used to fill the void between the tank and material that has not been disturbed.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

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