

Universal Laboratory, Inc.

(972) 272-7337
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1726 Commerce St
Garland, Texas 75040-6710

Date: 3-11-05

TEST REPORT

Test No.: 33067

For: COON MANUFACTURING, INC.

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STANDARD IAPMO PS 1-03c

5. Materials:

5.4 Polyethylene:

COMPLIES

5.4.1 Tensile Properties and Flexural Properties: ASTM D -638-98 & ASTM D 790-98

Sample No.	Tensile At Yield	Elongation %	Flexural Modulus
1	3,015 psi	510	88,000 psi
2	2,890 psi	505	86,000 psi
3	2,780 psi	498	89,000 psi
4	2,850 psi	507	87,000 psi
5	<u>2,910 psi</u>	<u>500</u>	<u>85,000 psi</u>
Average:	2,903 psi	504	87,000 psi

COMPLIES

ASTM D 638-98 Tensile Requirements: Equal to or greater than 2,400 psi
ASTM D 790-98 Flexural Modulus Requirements: Equal to or greater than 85,000 psi

Environmental Stress Cracking: ASTM D 1693-98 Condition "C" Requirements: 150 hours min
Exceeds 150 hours when measured in accordance with ASTM D 1693.

COMPLIES

5.4.1 Polyethylene: Type II, Category 3 (See Enclosed Certification)

COMPLIES

5.4.2 Thickness of side walls, top, bottom and covers shall be at least 1/4". Thickness: .275" **COMPLIES**

The thickness of the inlet and outlet ends shall be at least 1/4". Thickness: .281" **COMPLIES**

The thickness of internal walls and partitions shall be at least 3/16". Thickness: .276" **COMPLIES**

6. Checking and Testing:

6.1 Independent laboratory tests and engineering calculations certifying the tank capacity and structural stability shall be provided. Test Report Results By ULI: Test No.: 33067

6.2 Water Testing:

Septic Tank was set level and water raised to the flow-line of the outlet fitting. Tank showed no leakage from section seams, pinholes, or other imperfections. A total number of 1 tank were tested.

COMPLIES

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STANDARD IAPMO PS 1-00a

7.1 Marking

Unit permanently marked with manufacturer's name. Coon Manufacturing, Inc. **COMPLIES**

Each tank was marked with month and year manufactured: **COMPLIES**

The number on each unit read: Model 1000 **COMPLIES**

Maximum Recommended depth of earth cover in feet **COMPLIES**
and the nominal working volume. 987 gallon **COMPLIES**

The month and year and the recommended depth will be permanently marked on unit when it goes into production: See Attached Letter

- 7.2 Each tank shall be accompanied by adequate, clear instructions for installation. Cautions regarding the installation of cribbing or sleeves around the manhole shall also be included. **COMPLIES**

STANDARD CSA B66-00 And Manufacturer's Instructions

Snyder Industries Instructions:

Vacuum Test Procedure:

1. Clean both the insides of the lid and top of tank with alcohol (to remove mold release).
2. Trial fit the 1/16th turn locking mechanism of the lid. Lid should push down when the four tabs are properly aligned and turn 1/16th of a turn. Lid and tank interface should have no more than .125" gap.
3. Remove lids and apply .375" bead of clear silicone to top horizontal surfaces of tank and .25" bead to same sealing surface on inside of lid.
4. Firmly push down lid and turn 1/16th of turn.
5. Install four each Stainless steel screws (included) in 3/16" holes in lid.
6. Allow silicone to dry at least 24 hours.
7. After silicone has cured, place one layer of duct tape over interface of lid and tank.
8. Apply vacuum
9. During the vacuum test, the tank was bedded in dry sand to a depth not exceeding 100mm, oriented as in service.

Vacuum Test per CSA B66-00

8.2.2 Vacuum Test:

- a) After sealing empty tank was braced, covered and weight applied to simulate manufacturer's maximum depth of 36 inches. Vacuum applied and tested to 2.25 In/Hg negative pressure for 60 minutes. There was deformation, but the hatch inlet and outlet fittings remained attached to the tank without loss of seal. **COMPLIES**

8.4 Water tightness Test:

Following the tests in 8.2 (Vacuum) CSA B66-00 and Manufacturer's test procedure, the tank was filled with water to its outlet or overflow level and left for 30 minutes and then checked for leaks. There were no indications of leaks. **COMPLIES**