

**American Society of Sanitary Engineering
Seal (Certification) Program**

**Laboratory Evaluation Report for:
Outdoor Enclosures for Fluid Conveying Components**

Tested under ASSE Standard 1060 • Revised: 2006

Laboratory File Number _____

Manufacturer _____

Model No. _____

Address _____

Serial No. _____

Other Identification Markings _____

Size _____

General information and instructions for the testing engineer:

Within the text there may be items which are only advisory to conditions which experience indicates could be troublesome. It is not for evaluation related to acceptance of the product.

There may be other items for which the judgment of the test engineer will be involved. Should there be a question of compliance with that provision of the standard, a conference with the manufacturer should be arranged to enable a satisfactory solution of the question.

Should disagreement persist and compliance remain in question by the test agency, the agency shall, if the product is in compliance with all other requirements of the standard, file a complete report on the questionable items together with the test report, for evaluation by the ASSE Seal Control Board. The Seal Control Board will then review and rule on the question of compliance with the intent of the standard item involved.

Documentation of material compliance must be furnished by the manufacturer. He shall furnish to the testing agency, a bill of material which clearly identifies the material of each part included in the product construction. This identification must include any standards which relate thereto.

Product Name _____

Model Number _____ Size(s) _____

Date Submitted for Review _____ Date Review Complete _____

Were the test units production models Yes No
Or prototypes? Yes No

Is the test unit a part of a series? Yes No

If yes, what model numbers are include? _____

Section I

1.0 General

- 1.1 Applications. Is the purpose of the device, as stated by the manufacturer, in compliance with this section?
In compliance? Yes No Questionable
If questionable, explain: _____
- 1.2.1 Description. Does the device conform to the product described in this section?
In compliance? Yes No Questionable
If questionable, explain: _____
- 1.2.2.1 Freeze Protection Enclosure.
Classification: Class I Class I-V N/A
- 1.2.2.2 Freeze Retardant Enclosure.
Classification: Class II Class II-V N/A
- 1.2.2.3 Non-Freeze Protection Enclosure.
Classification: Class III Class III-V N/A
- 1.2.3 Heat Sources (Class I and I-V)
Are the heat sources constructed and installed so that water or other liquids will not enter and/or accumulate in or on the live wired sections or electrical components or wiring?
 Yes No
Which agency are the electrical components listed by for use in wet/damp locations?

- 1.3 Identify the free span structural design of the enclosure: _____

Section II

2.0 Test Specimens

- 2.1 Did the manufacturer submit their largest enclosure of a particular structural and functional design type for testing? Yes No
- 2.2 Identify by size other enclosures of the same structural and functional design type that the manufacturer has requested approval on: _____
- 2.3.1 Were assembly and installation drawings and other data that is required to enable a testing agency to determine compliance with this standard submitted with the enclosure?
 Yes No
- 2.3.2 Was the Thermal Resistance (R) Value calculations submitted? Yes No
- 2.3.3 Were heat loss calculations determined by the formula provided? Yes No

- In compliance? Yes No
- 2.3.4 Were drainage capacity calculations submitted by the manufacturer and verified by the testing laboratory? Yes No
- Were the drawings reviewed in the laboratory? Yes No

Section III

3.0 Performance Requirements and Compliance Testing

3.1 Air Inlet Test (Classes I-V, II-V, and III-V)

What is the actual area of the air inlet _____sq. in (_____sq. cm.)

What is the calculated size of the vent based on the largest piece of equipment that can be housed in the enclosure and on the formula in Section 3.1.2? _____sq. in (_____sq. cm.)

In compliance? Yes No Questionable

If questionable, explain: _____

3.2 Structural Test (All Classes)

What was the total weight applied to the top of the enclosure? _____ lbs (_____ kg)

The test was conducted for _____ hours.

Any damage or permanent deformation noted? Yes No Questionable

If questionable, explain: _____

In compliance? Yes No Questionable

If questionable, explain: _____

3.3 Access for Testing and Maintenance (All Classes)

For testing and maintenance purposes, identify the type of enclosure:

- Lift Off Type
 Access Panel Type
 Full Entry Type

If access panel type, were the test cocks, valve handles, hand wheels and other operating parts within a 24 inch (609.6 mm) reach while standing outside of the enclosure? Yes No

Are any enclosures or access panels that are designed to be removed to gain access to the components in excess of 70.0 lbs (31.8 kg) in weight? Yes No

In compliance? Yes No Questionable

If questionable, explain: _____

3.4 Hinged Access Panel Restraints Test

Were all the hinged access panels/doors restrained in both the open and closed position to avoid injury to personnel? Yes No

If applicable, were all the horizontal hinged panels weighed?

Yes No N/A

Were any unrestrained panels, horizontal panels or lift-off enclosures over 70 lbs. (31.8 kg) in weight?

Yes No Questionable

If questionable, explain: _____

3.5 Drainage Performance Test (All Classes)

What is the largest backflow preventer that the enclosure can accommodate?

What is the relief valve discharge rate? _____ GPM (_____ L/s)

Does the drain opening size meet the requirements of Section 3.5.3? Yes No

At any time, during the ten (10) minutes while the water was entering the enclosure, did the water level rise above 8 inches (203.2 mm)? Yes No

After the incoming water source was shut-off and the drainage water stopped, what was the water level in the enclosure? _____ inches (_____ mm)

In compliance? Yes No Questionable

If questionable, explain: _____

3.6 Freeze Protection Capability Test (Class I and Class I-V)

What was the heat source for the enclosure?

Electric Cables Electric Heater Other _____

If electric heater, state the model number, the manufacturer and the heating capacity:

If other, explain: _____

When subjected to an external temperature of -30°F (-34°C), what was the average of all the 24 hourly temperature readings taken from the enclosure? _____°F (_____°C)

Were any average hourly readings lower than 0°C (32°F)? Yes No

In compliance? Yes No Questionable

If questionable, explain: _____

3.7 Security/Locking Mechanism Test

Was the enclosure able to withstand the pull test on the locking mechanism and still provide security for the components? Yes No Questionable

If questionable, explain: _____

Section IV

4.1 Materials

4.1.1 Describe the makeup of the material(s) of the exposed exterior.

4.1.2 Describe the makeup of the material(s) of the exposed interior.

4.1.3 Describe the fasteners and hardware materials used for the enclosure.

4.1.4 Describe the elastomers exposed to ultraviolet rays

4.2 State the method(s) used by the manufacturer to prevent vandalism and to provide security.

Markings of the Enclosure

List the following as they appear on the enclosure

a) Name of manufacturer or trademark: _____

b) Model number: _____

c) Date code or serial number: _____

d) Class designation: _____

Were the markings visible in the installed position? Yes No

4.2.2 How were these markings shown? _____

4.3 Installation Instructions

Were written instructions for installations submitted with the enclosure? Yes No

If special tools were required, were they supplied? Yes No

For enclosures that include an electric heat source, was the warning: "Warning! A ground fault circuit interrupting device shall be installed in the electrical supply circuit to this heater. Failure to do so may result in injury or death. The interior of this enclosure is a damp location.", included in the installation instructions? Yes No

TESTING AGENCY _____

ADDRESS _____

PHONE: _____ FAX: _____

TEST ENGINEER(S) _____

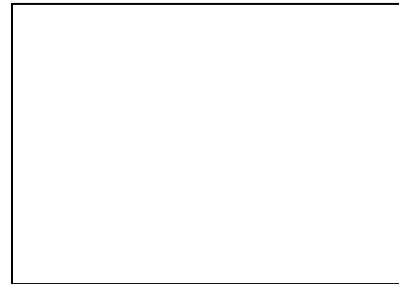
We certify that the evaluations are based on our best judgments and that the test data recorded is an accurate record of the performance of the device on test.

Signature of the official of the agency:

Title of the official: _____ Date: _____

Signature and seal of the Registered Professional Engineer
supervising the laboratory evaluation:

Signature



Seal