

Safe-T-Cover™

BACKFLOW PREVENTION ASSEMBLY ENCLOSURE SPECIFICATION

PART 1 GENERAL

1.1 WORK INCLUDED

- A. Provide manufactured backflow prevention assembly enclosure.

1.2 QUALITY ASSURANCE

- A. Qualifications: The backflow prevention assembly enclosure manufacturer shall be a company specializing in the manufacture of backflow prevention assembly enclosures with at least 5 years of successful experience designing and selling enclosures to various customers in different climatic regions.

1.3 STORAGE AND HANDLING

- A. Store products in shipping containers and maintain in dry place until installation.

1.4 ACCEPTABLE MANUFACTURERS

- A. Safe-T-Cover™ or Engineer approved equal.

1.5 REFERENCES

- A. ASTM B209.
- B. ASSE 1060-Performance Requirements for Outdoor Enclosures for Backflow Prevention Assemblies.

PART 2 PRODUCTS

2.1 MODEL NO. & SIZE

- A. Model No. shall be 100S-AL.

- B. Inside dimensions shall be 7"W x 32"L x 22"H.

2.2 MATERIALS OF FABRICATION

- A. Material of fabrication shall be 5052-H32 marine grade aluminum (.050/18 gauge), mill finish and shall meet ASTM B209.

- B. Insulation shall be 1.5" (9.0 "R" value) minimum thickness polyisocyanurate foam laminated to a glass fiber reinforced facer (each side). The insulation shall have the following properties:
 1. Dimensional Stability-Less than 2% linear change, ASTM D-2126;
 2. Compressive Strength-20PSI, ASTM D-1621;
 3. Water Absorption-Less than 1% by volume, ASTM C-209;
 4. Moisture Vapor Transmission-Less than one (1) perm, ASTM E-96;
 5. Product Density-Nominal 2.0 lbs. per cubic foot, ASTM D-1622;
 6. Flame Spread=25, ASTM E-84;
 7. Service Temperature= -100°F to +250°F maximum.
 8. The insulation shall be of uniform thickness.

2.3 ROOF & WALLS

- A. The roof and walls of the enclosure shall be constructed of 5052-H32 (.050/18 gauge) marine grade aluminum, mill finish, ASTM B209 outside with insulation 1 1/2" (9.0 "R" value) thick in the walls and roof.
- B. The enclosure shall be completely removable for access for testing and maintenance.
- C. The complete assembly shall be protected by being inside the enclosure.
- D. Clear opening drain panel area shall be 7"W x 5 1/4"H.
- E. Drain flap shall have a stainless steel hinge and a stainless steel light strength spring as a positive means of closure so that it will not be activated by wind.
- F. The drain flap shall be constructed of the same materials that is used in the walls and roof of the enclosure.

2.4 Heating Equipment

- A. Heating equipment shall be furnished and designed by the manufacturer of the enclosure to maintain an interior temperature of +40°F with an outside temperature of -30°F. Install heating equipment as per manufacturer's instructions and governing local and national codes.

2.5 MOUNTING HARDWARE

- A. Mounting hardware shall be furnished and shall be constructed of 5052-H32 aluminum.
- B. All masonry fasteners shall be metal hit anchors.
- C. All necessary drill bits shall be furnished.
- D. All mounting brackets shall be on the inside of the enclosure. The enclosure shall be mounted in such a way that removal will be by removal of lockable stainless steel rod only.

PART 3 INSTALLATION

- A. Enclosure shall be mounted on a concrete pad 18"W x 43"L x 6"Thick.
- B. Enclosure shall be assembled and mounted to concrete pad according to manufacturer's instructions.