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 200S-AL.

B. Inside dimensions shall be 14"W x 43"L x 29"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= -100^0F to $+250^0$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. Drain panel area shall be 14"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 $+40^0$F with an outside temperature of -30^0F. 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 25"W x 54"L x 4"-6"Thick.

B. Enclosure shall be assembled and mounted to concrete pad according to manufacturer's instructions.