

AquaSHIELD®

PROTECTIVE ENCLOSURES

Outdoor Enclosure Specifications

Model BFP2-S

1 GENERAL

1.1 WORK INCLUDED

- A. Provide manufactured outdoor enclosure for backflow prevention assembly.

1.2 QUALITY ASSURANCE

- A. Qualifications: The manufacturer of the outdoor enclosure shall be a company specializing in the field of manufacturing of such enclosures with at least ten (10) years of successful field installations and be ASSE 1060 Seal certified.

1.3 REFERENCES

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

1.4 ACCEPTABLE MANUFACTURERS

- A. **AquaSHIELD** or Engineer approved equivalent.

2 PRODUCTS

2.1 MODEL NO. & SIZE

- A. Model No. shall be BFP2-S
B. Inside dimensions shall be 43 "L x 14 "W x 28 "H (+ or – 1/2")

2.2 MATERIALS OF FABRICATION

- A. Materials for exterior walls shall be 5052-H32 aluminum (.050/18 gauge) and shall comply with ASTM B209. The aluminum shall have a factory mill finish.
- B. Insulation shall be a closed cell polyisocyanurate foam core laminated to heavy black glass fiber reinforced facers on each side. The insulation shall have the following properties:
- R-Value – 9.0
 - Dimensional Stability - 2% Linear Change
 - Compressive Strength - 20 psi and 25 psi
 - Product Density - Nominal 2.0 pcf
 - Water Absorption - <1% By Volume
 - Service Temperature - (-100°F to +250°F)
 - Moisture Vapor Transmission - < One (1) Perm
 - Flame Spread - 25
 - Insulation shall be 1.5" thick
- C. Adhesive shall be Hilti brand Product No. CA-3200 and shall have the following features:
- Bonds foam products
 - Water resistant bond
 - Stays resilient

- Will not freeze
- Freeze/thaw stable

2.3 COMPONENTS

- A. The enclosure shall be constructed of 5052-H32 (.050/18 gauge) mill finish marine grade aluminum ASTM B209 outside with insulation 1.5" thick (9.0 "R" value) on the inside.
- B. The above components shall be securely bonded to form a composite panel.
- C. The exterior of the panels shall have a protective PVC masking to protect the finish. The protective masking shall be removed by the customer immediately after installation of the enclosure.
- D. The enclosure shall be fully assembled by the manufacturer.
- E. The top shall be removable to provide access to the BFP and shall be attached to the enclosure with aluminum clasps.
- F. The access panel shall be removable to provide access to the BFP and shall slide over the side walls from the top of the enclosure and held in place by the top.
- G. The enclosure shall be lockable with pad locks provided by the manufacturer.
- H. Drain relief panel for the enclosure shall be constructed of same said materials as wall panels and be located in the access panel.
- I. Drain relief panel shall have a stainless steel hinge and stainless steel spring as a positive means of closure after water discharge to prevent the intrusion of outside air, debris, and small animals.

2.4 HEATING EQUIPMENT

- A. Enclosure with heating equipment provided by manufacturer shall maintain freeze protection with an external temperature of -30°F.
- B. Enclosure without heating equipment are designated for climates where the ambient temperature does not go below 33°F for long periods of time.
- C. Heating equipment shall be ETL, UL, or CSA certified.
- D. Heating equipment shall be installed above the level of RPZ discharge.
- E. Electrical power source for heater shall be a designated circuit with G.F.I. protection and a minimum of 8" clearance from receptacle base to top of slab.

2.5 INSTALLATION HARDWARE

- A. Concrete anchors shall be metal hit type and provided by the manufacturer. Optional anchors with Florida Building Code High-Velocity Hurricane Zone approval available.
- B. Masonry drill bit and screw chuck shall be provided by the manufacturer

2.6 INSTALLATION

- A. Recommended pad size shall be 58 "L x 29 "W x 6"T.
- B. Enclosure shall be assembled per manufacturer's instructions provided with enclosure.
- C. Enclosure shall be mounted to concrete pad per manufacturer's instructions.