of architectural metals and/or flood panels.

Eccentric loads, not resistive to the "push-pull" action of the flood panels, shall be resisted by means of reinforcement designed to the acoustical requirements of the project.

Flood panels shall be installed in accordance with FEMA 102 manual for flood panels and the recommendations and specifications of the architect of record. Flood panels shall be installed and used as specified and approved by the architect of record. Flood panels shall be installed in accordance with FEMA 102 manual for flood panels and the recommendations and specifications of the architect of record. Flood panels shall be installed in accordance with FEMA 102 manual for flood panels and the recommendations and specifications of the architect of record. Flood panels shall be installed in accordance with FEMA 102 manual for flood panels and the recommendations and specifications of the architect of record. Flood panels shall be installed in accordance with FEMA 102 manual for flood panels and the recommendations and specifications of the architect of record.

1. The structural design of these Removable Flood Panels is general and has been designed for preliminary hydraulic and impact testing. The design is intended to provide a basis for the construction of flood panels that meet the requirements of the architect of record.

2. The structural design of these Removable Flood Panels is general and has been designed for preliminary hydraulic and impact testing. The design is intended to provide a basis for the construction of flood panels that meet the requirements of the architect of record.

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NTS
BRACKET PLAN VIEW
MID-SPAN SUPPORT
DETAIL 1/D3

3/4" MACHINE BOLT
8 in.

FLOOD LOG

BRACKET

COMPRESS

CASKET

BASE PLATE

%" THICK STEEL

STAIN VERTICAL

"H" SUPPORT POST

10 1/2 in.
Section 08316

Removable Aluminum Flood Barriers

Gasketed Aluminum Flood Log System (Pat. Pend. (PP))

Suggested Specifications

➢ Part 1 • General

➢ 1.01 Description
  ○ A. Work Included:
    ▪ Provide flood barrier(s) factory assembled with frame(s) and hardware in accordance with the contract documents.

➢ 1.02 Standards
  ○ A. Comply with the provisions of (as applicable).
    ▪ 1) AWS Structural Welding Code D1.
    ▪ 2) ASTM A36, A240,
    ▪ 3) ASCE 7-02, 24-05
    ▪ 4) FBC Chapter 20, Section 2003.8.4.
    ▪ 5) QA program that is registered to ISO 9001-2000

➢ 1.03 Submittals
  ○ A. Calculations:
    ▪ Submit calculations, approved by a qualified engineer, to verify the barrier's ability to withstand the design pressure loading, based on current building code and specified load combinations.
  ○ B. Shop Drawings:
    ▪ Submit shop drawings for flood barriers including dimensioned plans and elevations, sections, connections and anchorage, and parts list.
  ○ C. Manufacturers Data:
    ▪ Submit installation and maintenance instructions for flood barriers.

➢ 1.04 Qualifications
  ○ A. Experience:
    ▪ The manufacturer of the flood barrier(s) shall present evidence attesting to at least 5 years of successful experience in the design, manufacture, and site implementation of the flood barrier system type specified.
Part 2 • Products

2.01 Flood barriers shall be as manufactured by Flood Panel Ltd., a division of Architecture Metals Ltd., 5500 Military Trail, Ste 22-220, Jupiter, Florida 33418 (O)561-630-0020 Fax 561-744-2755 e-mail: sales@am20.com

2.02 Materials

  o A. Aluminum Flood Log (PP) Panels to be of 6005-T5
  o B. Intermediate and End Posts:
    ▪ The majority of the post is to be from grade ST37 (S235 JR) or galvanized steel with the exception of below ground supports which are to be of grade 304 stainless steel or equal.
  o C. All steel to be primed with one coat Sherwin Williams Kern Flash rust inhibitive, lead free, primer, or equivalent.
  o D. Base Gaskets to be composite low compressed set gaskets mechanically retained in the flood logs; 40D medium compression set gaskets retained mechanically in the top of each flood log and low compression gaskets in the jambs and mid-span supports.

2.03 Design

  o A. Loads for the design of the Flood Log Flood Panel System (PP) have been determined assuming that the location of the building where the system is to be installed is outside of High Risk Flood Hazard Areas, Coastal High Hazard Areas, and Coastal A zones, per Dry Flood proofing Limitations on ASCE 24-05, Section 6.2.1.
  o B. This Flood Log System Flood Panel System (PP) has been designed for the loads and load combinations listed on the ASCE 7-02, Section 2.0 (Combinations of Loads), including the following flood loads according with ASCE 7-02 Section 5.3.3 (Loads During Flooding):

    ▪ 1) Hydrostatic Loads, caused by water which is either stagnant or moves at velocities less than 5 ft/sec, according with ASCE 24-05, Section 6.2.1 and ASCE 7-02, Sections 5.3.3.2 and C5.3.3.2.
    ▪ 2) Hydrodynamic Loads: Hydrodynamic loads not considered since flow of water is moving at velocities less than 5ft/sec, according with ASCE 24-05, Section 6.2.1 (Dry Flood proofing Limitations).
    ▪ 3) Wave Loads: Only Non-breaking wave action is considered since Non-breaking waves on vertical walls can also be computed as hydrostatic forces, according with FEMA 550-2006, Section 3.4 (Wave Loads) and ASCE 7-02 Section 5.3.3.4 (Wave Loads). Breaking waves and broken waves are proper of other areas where Dry-Flood proofing is not allowed according with ASCE 24-05, Section 6.2.1 (Dry Flood proofing Limitations).
4) Impact Loads: Not considered since Hydrostatic analysis is performed for flow of water moving at velocities of less than 5 ft/sec.

- C. This Flood Log System Flood Panel System (PP) is designed for a maximum wind load pressure of +/- 126 psf, which is the maximum wind load pressure per Structural Drawings.
- D. Frame(s) and Intermediate post(s) shall have mounting holes for connecting anchors and bolts. Anchor type, size, and method dependent on load capabilities of structure.
- E. The individual Flood log sections shall be 3” deep by 12.25” tall with a top interlocking gasket slot system which includes gaskets and gasket channels between sections and full height in the jamb channels. Multiple logs are to be stacked to meet or exceed the base flood elevation plus additional 12” or 24” for wave action per the job requirements and location. Embed plates may be required at the sill and jambs based on the condition at the opening and the loads imposed on the system. Jamb supports are to be continuous structural steel channels designed specifically for the Flood log system and are to be anchored and sealed to the condition with embeds or mechanical anchors.

**Part 3 – Execution**

- **3.01 Installation**
  - A. Install flood barriers in accordance with manufacturer's instructions and approved shop drawings.