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3-Part CSI Specifications CG11FS – Lift-Out Flood Panel with Mechanical Seals

These specifications are intended to be used as guidelines for architects and engineers as they establish the requirements for a particular project, and may be modified by them as deemed appropriate.

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.
 - 2. ASME Structural Welding Code Section IX.
 - 3. Presray Corporation QA Program
- 1.03 Submittals
 - A. **Manufacturers Data:** Submit installation and maintenance instructions for flood barriers.
 - B. **Shop Drawings:** Submit shop drawings for flood barriers including dimensioned plans and elevations, sections, connections and anchorage, and parts list.
 - C. Calculations (Optional): Submit calculations, approved by a qualified engineer, to verify the barrier's ability to withstand the design pressure loading.
- 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 and manufacture of both the flood barrier and flood barrier seal of the type specified.

Part 2 - Products

- 2.01 Flood barrier shall be Model CG11FS as manufactured by Presray Corporation.
- 2.02 Materials
 - A. **Panel:** 6061 –T6 aluminum plate (steel, stainless steel optional).
 - B. **Conversion Frame:** Low carbon steel (stainless steel optional).
 - C. **Finish:** Panel, bright aluminum finish. Conversion frame, brush-off blast clean per SSPC-SP7, primed with one coat rust inhibitive, lead free, red

primer.

- D. **Gasket:** Presray type 25 durometer neoprene molded rather than extruded, with fully molded corners, no mitered joints allowed. (Optional materials include Viton[®], Consult Presray in cases of unusual environmental conditions).
- E. Hardware

Attachment bolts: Presray type FS **Grab Handles:** Welded lift attachments on top edge and/or face of panel for ease of handling.

- 2.03 Design
 - A. Flood barrier(s) shall be designed with a minimum 2:1 factor of safety based on material yield strength, and shall provide an effective seal against the design flood level.
 - B. Frame shall have mounting holes for expansion anchors and bolts (options available include epoxy anchors for block walls, and studs for imbedment in concrete).
- 2.04 Inspection and Test
 - A. All welds on steel assemblies that may be potential "leak path" shall be liquid penetrant inspected in accordance with ASME section VIII Div. of Appendix 8.

Part 3 — Execution

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

Part 4 — Warranty

• 4.01 1-year limited against defects and workmanship from date of shipment.