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**AMERICLAD
AC-3300
Panel System**

**SECTION 07 42 13
ALUMINUM PLATE PANEL SYSTEM
SLIDING CLIP
(WET JOINT)
U.S. Patent # 8,225,572**

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. The drawings and provisions of the General Conditions, and the sections included under Division 1 specification sections, apply to this section

1.2 SUMMARY

- A. This section includes aluminum plate panels that are used as the exterior and interior cladding

1.3 PERFORMANCE REQUIREMENTS

- A. Structural Performance: provide aluminum plate wall panel assemblies capable of withstanding the effects of load and stresses from wind loads, dead loads, snow loads and normal and expected thermal movement without evidence of permanent defects of the assemblies. System design for a mechanically fastened assembly to substructure
1. Dead Load as required by applicable building code
 2. Live Load as required by applicable building code
 3. Wind Load: uniform pressure (define velocity pressure) of (insert design criteria) pound/square foot, acting inward and outward.
 4. Thermal Movements: provide panel assemblies that allow for thermal movements to prevent buckling, opening of joints and other thermal effects
- B. Design the panel for a mechanically fastened assembly to substructure
C. Design panel tolerances to manufacturer's standard tolerances

- D. Panel Joints will be sealed appropriately using backer rod and approved caulk
- E. Structural Performance/Uniform Load Deflection Test: Provide panel system that has been tested in accordance with ASTM E330.
- F. Air Infiltration: Panel system shall not have air infiltration rate more than 0.06 cfm per square foot of fixed wall area when tested in accordance with ASTM E283 at a static air pressure differential of 1.57 psf.
- G. Static Water Penetration: Panel system shall have no water penetrations defined by in test method when tested in accordance with ASTM E331 at inward static pressure differential of 15% of the positive design pressure but not less than 6.24 psf.

1.4 SUBMITTALS

- A. Product Data: Manufacturer's product literature
- B. Finish Samples: submit color samples for final approval
- C. Shop Drawings: submit shop drawings showing plans, sections, and details

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum of five years experience in manufacturing of metal wall panel products
- B. Installer Qualifications: Acceptable to manufacturer
- C. Engineering Qualifications: Provide engineering calculations for the metal panel assembly to be prepared by an engineer registered in the state the project is located

1.6 DELIVERY, STORAGE AND HANDLING

- A. Delivery: deliver metal panels in manufacturer's crates packed for long haul transit
- B. Storage: store materials in a dry and safe area
- C. Handling: handle materials to avoid any damage to materials and finishes

1.7 WARRANTY

- A. The contractor must warrant the materials to be free of defects in accordance with the general conditions. Finish warranty shall be extended by paint manufacturer's standard warranty

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Americlad LLC, 21925 Industrial Boulevard, Rogers, Minnesota 55374,
Telephone: (866) 260-4047, www.americlad.com

1. AC-3300 Aluminum Plate Panel System with Sliding Clip (Wet Joint)

H. Approved equal submitted for approval 10 days prior to bid

2.2 MATERIALS

A. Aluminum Sheet: ASTM B209, Aluminum Association specification

1. 3003-H14/3105-H14/5052-H32 for painted finishes

B. Aluminum Extruded Clip: 6000 series aluminum

C. Thickness: .125" (1/8") unless otherwise specified

2.3 FABRICATION

A. Tolerances

1. Route edge grip in panel for sliding clip
2. Brake form edges at right angles to the plane of the wall, weld and grind corners smooth to ensure water tightness
3. Reinforce panels with proper stiffening as required and applicable based on design loads
4. Panel surfaces shall be free of blemishes, scratches or marks caused during fabrication process

2.4 ACCESSORIES

A. All fasteners shall be stainless steel

B. Panel clips: Extruded clips that are shipped loose for field installation

2.5 FINISHES

A. Paint:

1. Coating shall be a Spray Applied Fluorocarbon Resin utilizing a 70% Kynar 500/Hylar 5000 resin
2. Color as selected by owner from paint manufacturer's standard colors or custom colors as specified
3. Material to be painted in accordance with either AAMA specification 2605 or 2604

PART 3 – EXECUTION**3.1 PREPARATION**

- A. Coordinate drawings, diagrams, and instructions for installation

3.2 INSTALLATION

- A. Install panels plumb and level per shop drawing detailing
- B. Isolation tape or shim shall be installed where dissimilar materials come in contact
- C. Slide clips onto panel and mechanically fasten one clip minimum to panel

3.3 CLEANING AND PROTECTION

- A. Clean exposed surfaces after installation per manufacturer's recommendation
- B. Touch up minor abrasions in finish with touch up paint supplied by finish applicator

END OF SECTION