MANUFACTURER:
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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. Quality Metalcrafts, LLC/AMERICLAD, 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
   2. 5005-H34 for anodized finish
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 Fluurocarbon Resin Utilizing a 70% Kynar 500/Hylar 5000 resin
   2. Color as selected by owner from paint manufacturer’s standard colors or Custom color as specified
   3. Material to be painted in accordance with either AAMA specification 2605 or 2604
B. Anodized:
1. Class I, Clear Anodic Finish: AA-M12C22A41, mechanical finish, nonspecular as fabricated. Coating to have an anodic coating of 0.7 mil (0.018 mm) thickness
2. Class I, Color Anodic Finish: AA-M12C22A42/A44, mechanical finish, nonspecular as fabricated. Color to be determined by Owner. Coating to have an anodic coating of 0.7 mil (0.018) thickness

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
ALUMINUM SLIDING CLIP PANEL SYSTEM (WET JOINT)

NOTE:
LOAD BEARING WALL COMPONENTS OF EITHER: 16GA STEEL STUDS, STRUCTURAL MEMBERS, MINIMUM 5/8" PLYWOOD OR CONCRETE. GYPSUM BOARD AND CEMENT BOARD ARE NOT A STRUCTURAL COMPONENT.
NOTE:
LOAD BEARING WALL COMPONENTS OF EITHER: 16GA STEEL STUDS, STRUCTURAL MEMBERS, MINIMUM 5/8" PLYWOOD OR CONCRETE. GYPSUM BOARD AND CEMENT BOARD ARE NOT A STRUCTURAL COMPONENT.
NON-FASTENING JOINT DETAIL

NOTE:
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AC-3300 ALUMINUM SLIDING CLIP PANEL

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INSIDE CORNER DETAIL (2)

AC-3300 ALUMINUM SLIDING CLIP PANEL

SUBGIRT (NOT BY AMERICLAD)

STAGGERED PANEL CLIP (BY AMERICLAD) (SENT LOOSE FOR FIELD APPLICATION W/ FASTENERS NOT BY AMERICLAD)

BACKER ROD & SEALANT (NOT BY AMERICLAD)

ISOLATOR SHIM (NOT BY AMERICLAD)

FASTENERS (NOT BY AMERICLAD)

P.F.D.

2.000 NOMINAL

1.028

3.938

.625

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ALUMINUM SLIDING CLIP SYSTEM
INSTALLATION GUIDE

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- Fasten clips to panels using staggering spacing for adjacent panels
- Fasten thru panel clip slots on starter panel into substrate
- Repeat step 2 for adjacent panels ensuring desired joint width between panels
- Wet seal joints between panels and at perimeter

METALCRAFTS LLC
Architectural Metal Products

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