

**MANUFACTURER:**

Quality Metalcrafts, LLC  
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**AMERICLAD  
AC-4000  
Panel System**

**SECTION 07 42 00 / 08 44 00  
INSULATED METAL INFILL PANEL  
(ONE INCH FIVE PLY)**

**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 insulated metal infill panels that are used as the exterior and interior cladding

**1.3 PERFORMANCE REQUIREMENTS**

- A. Design panel system to accommodate tolerance of plus or minus 1/16” in overall panel thickness and plus or minus 1/8” in any direction  
B. Structural Performance: provide exterior and interior wall cladding assemblies to meet effects of load and stresses from wind loads

**1.4 SUBMITTALS**

- A. Product Data: Manufacturer’s product literature  
B. Manufacturer’s standard color charts  
C. Finish Samples: submit color samples for final approval  
D. 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

**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, 13375 Commerce Boulevard, Rogers, Minnesota 55374, Telephone: (866) 260-4047, [www.americlad.com](http://www.americlad.com)

- 1. AC-4000 Insulated Metal Infill Panel System (one inch five ply panel)

- B. 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. Thickness: 1" (one inch) overall thickness
- C. Exterior Skin shall be \_\_\_\_\_. (Specify). Color shall be \_\_\_\_\_ (Specify)
- D. Stabilizer sheet under both faces shall be 1/8" tempered hardboard)
- E. Core shall be 2.5# density Expanded Polystyrene Foam or Isocyanurate Foam
- F. Interior Skin shall be \_\_\_\_\_(Specify). Color shall be \_\_\_\_\_(Specify)

**2.3 FABRICATION**

- A. Tolerances
  - 1. Width and Length to be plus or minus 1/8"
  - 2. Thickness to be plus or minus 1/16"

- B. Panel surfaces shall be free from defects, scratches or marks caused during fabrication

## **2.4 ACCESSORIES**

- A. Installer shall supply all materials required for 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 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. Setting blocks should be at quarter points of each panel and in a width equal or larger than the panel thickness
- B. Panels to be sealed with Class A grade sealants
- C. Weep holes for frame assemblies to accommodate proper draining
- D. The entire panel perimeter should be engaged into the framing system to allow a minimum of 5/8"
- E. A minimum of 1/4" of clearance must be maintained around the panel perimeter

### **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



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**END OF SECTION**