SECTION 07 42 00

Perforated Metal Wall Panels

1. GENERAL
   1. **SUMMARY**
      1. Section Includes:
         1. Perforated and fabricated architectural metals.
      2. Related Sections:
         1. Division 1 Section: Submittal Procedures.
         2. Division 1 Section: Quality Control.
         3. Division 1 Section: Closeout Submittals.
         4. Division 3 Section: Cast-in-Place Concrete: Installation of Anchors.
         5. Division 4 Section: Masonry Anchorage and Reinforcement: Installation of Anchors.
         6. Division 5 Section: Metal Fabrications.
         7. Division 5 Section: Metal Stairs and Ladders.
   2. **REFERENCES**
      1. ASTM International:
         1. ASTM B209 Standard Specification for Aluminium and Aluminium-Alloy Sheet and Plate.
   3. **SUBMITTALS**
      1. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures.
      2. Product Data: Submit manufacturer's product data and installation instructions for custom perforated metal architectural designs, including manufacturer’s SPEC-DATA® product sheet. Include material, finish, available thicknesses and opening sizes.
      3. Drawings:
         1. Submit shop drawings detailing installation procedures, including layout, dimensions, anchorage, reinforcement, connections, supports and support placement.
      4. Samples:
         1. Submit 12” x 12” sample of perforation pattern in required material thickness. Sample to include formed edges per system design and finish as specified.
      5. Quality Assurance:
         1. Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
         2. Manufacturer’s Instructions: Manufacturer’s installation instructions.
      6. Manufacturer’s Field Reports: Indicate and interpret test results for compliance with performance requirements.
      7. Closeout Submittals: Submit the following:
         1. Warranty: Warranty documents specified herein.
         2. Operation and Maintenance Data: Operation and maintenance data for installed products in accordance with Division 1 Closeout Submittals (Maintenance Data and Operation Data) Section. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.
   4. **QUALITY ASSURANCE**
      1. Qualifications:
         1. Fabricator Qualifications: Fabrication performed in quality controlled manufacturing environment by experienced fabricators with references indicating multiple satisfactory experiences fabricating perforated metals as required for this project.
   5. **DELIVERY, STORAGE & HANDLING**
      1. General: Comply with Division 1 Product Requirements.
      2. Ordering: Comply with manufacturer’s ordering instructions and lead time requirements to avoid construction delays.
      3. Delivery, Storage and Protection:
         1. Deliver materials in original sealed manufacturer’s packaging.
         2. Store materials in dry, secure location.
         3. Store in accordance with manufacturer’s written instructions.
   6. **WARRANTY**
      1. Project Warranty: 1 year manufacturer’s warranty on fabrications and material
      2. Manufacturer’s Warranty: Submit, for Owner’s acceptance, manufacturer’s standard warranty document executed by authorized company official. Manufacturer’s warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.
      3. B. Finish Warranty: 10 year warranty (Fluoropolymer finish), 20 year warranty (Fluoropolymer finish), 5 year warranty (Powder coated finish), 5 year warranty (Anodized finish)
   7. **WASTE MANAGEMENT & DISPOSAL**
      1. Deposit packaging materials in appropriate container onsite for recycling or reuse.
      2. Avoid using landfill waste disposal procedures when recycling facilities are available.
2. PRODUCTS
   1. **PERFORATED ARCHITECTURAL METALS**
      1. Manufacturer: Hendrick Architectural, 1 Seventh Ave., Carbondale, PA 18407; Telephone: (877) 840-0881, (570) 282-1010; Fax: (570) 282-1506;

E-mail: arch@hendrickcorp.com; website: www.hendrickarch.com.

* + 1. Material:
       1. Aluminum: To ASTM B209.
          1. Thickness: 1/8”, 3/16”, 1/4" thick 5052-H32
          2. Sheet Size: [\_\_\_\_ × \_\_\_\_\_]. Max size per span chart
          3. Shape: Flat panel edges per design details
          4. Finish: [Powder coated] [Fluoropolymer Finish] [Anodized] [Brushed Anodized] [Mill finish].
          5. Color: [Powder coat] [Painted] [\_\_\_\_\_].
    2. Perforations:
       1. Round: [0.250 inch - 3 inch] diameter holes, [\_\_\_\_\_] % open area, [Staggered] [Straight].
       2. Square: [0.250 inch × 0.250 inch] holes, [\_\_\_\_\_] % open area, [Staggered] [Straight].
       3. Slotted: 1/8 inch × 1 inch slots, [\_\_\_\_\_] % open area, [Staggered] [Straight].
    3. Panel Margins: 1.25” min. margins all 4 sides
    4. Fasteners: Per design details and fastener schedule
  1. **PRODUCT SUBSTITUTIONS**
     1. Substitutions: No substitutions permitted.

1. EXECUTION
   1. **MANUFACTURER’S INSTRUCTIONS**
      1. Compliance: Comply with manufacturer’s written data, including product technical bulletins, product catalog installation instructions, product carton installation instructions and Hendrick Manufacturing Co.’s SPEC-DATA sheet.
   2. **EXAMINATION**
      1. Site Verification of Conditions:
         1. Verify substrate conditions are acceptable for product installation in accordance with manufacturer’s instructions.
         2. Examine area to receive architectural metalwork for compliance with installation clearances.
   3. **INSTALLATION**
      1. Install in compliance with manufacturer’s product data, including product technical bulletins, application and installation instructions.
      2. Erect metalwork square, plumb, straight and true.
      3. Provide suitable means of anchorage as recommended by Hendrick Manufacturing Co.
      4. Match exposed fastening devices to attached metalwork.
      5. Provide components and setting templates to appropriate trades for placement in concrete or masonry.
   4. **FIELD QUALITY CONTROL**
      1. Have manufacturer of products supplied under this Section review Work involved in handling, installation/application and protection of its product[s], and submit written reports in acceptable format to verify compliance of Work with Contract.
      2. Protect installed product’s finish surfaces from damage during construction.
   5. **COMPLETION & CLEANUP**
      1. After installation and prior to final acceptance, inspect metalwork for any damage. Repair or replace damaged installed products.
      2. Clean installed products in accordance with Hendrick Manufacturing Co.’s instructions prior to Owner’s acceptance. Remove protective coverings.
      3. On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION