**Metl-Span Insulated Metal Panels** (IMPs) consist of two single-skin metal facings and a factory-foamed-in-place core. Metl-Span offers IMPs for both roof and wall applications. The foam insulation is made of non-chlorofluorocarbon (non-CFC) polyurethane foam. IMPs are sealed to each other at the side laps and to the substructure at all perimeter boundaries, which make them the ideal choice when a continuous air barrier is required. These concealed-clip fastened panels eliminate thermal short circuits and provide superb air and vapor control.

**Metl-Span HPCI Barrier:** The Metl-Span HPCI Barrier insulated metal panel provides superior air, water, thermal and vapor protection in a single-panel component. This unique insulated metal wall panel introduces news standards in cost savings, design integrity and sustainability. Easily and quickly installed in a single-step, the HPCI Barrier eliminates the need for multiple work crews, minimizing construction debris and reducing the likelihood of improper installation.

Our panels come in a wide array of color and applied finish offerings and are great for a multitude of building projects. Building and energy codes are becoming increasingly more stringent so the all-in-one barrier offering of insulated metals panels are an ideal choice for a high performance, thermally efficient building envelope.

The foam insulation of IMPs offers superior R-values which provide enhanced energy performance for buildings utilizing these panels. The offset double tongue-and-groove interlock, coupled with vapor seal in the side-joint grooves, provides superior resistance to air and moisture intrusion, allowing for increased thermal performance.

IMPs are able to span greater distances than single skin panels. As well as, offer better in-place building efficiency than typical cavity or field assembled wall products.

IMPs offer many advantages for building owners, designers and contractors. Some of these benefits include reduced building operational expenses, accelerated construction schedules, earlier business starts and much more. Metl-Span insulated metal panels are ideal for many applications, including architectural, commercial, industrial and institutional markets.

Metl-Span manufactures insulated metal panels with the most technologically advanced manufacturing plants across North America. Metl-Span’s insulated metal panels are available in several different wall types.
and roof profiles. Our insulated metal panel color and applied finish offerings allow for a multitude of design opportunities. Whether you’re looking for design options, easy to install efficient materials, or to save money on energy and maintenance costs, our panels make the difference. Consult your local Metl-Span sales representative for design assistance or visit metlspan.com for more information.
PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Foamed-insulation-core concealed fastener metal wall panels, with related metal trim and accessories.

1.2 RELATED REQUIREMENTS

Specifier: If retaining this optional article, edit list below to correspond to Project.

A. Division 01 Section "Sustainable Design Requirements" for related LEED general requirements.
B. Division 05 Section "Structural Steel Framing" for steel framing supporting metal panels.
C. Division 05 Section "Cold-Formed Metal Framing" for cold-formed metal framing supporting metal panels.
D. Division 07 Section "Sheet Metal Flashing and Trim" for sheet metal flashing items in addition to items specified in this Section.
E. Division 07 Section "Metal Wall and Roof Panels" for factory-formed metal wall, roof, and soffit panels.
F. Division 13 Section "Metal Building Systems" for steel framing supporting metal panels.

1.3 REFERENCES

Specifier: If retaining this optional article, edit list below to correspond to Project.

A. American Architectural Manufacturer's Association (AAMA): www.aamanet.org:
   1. AAMA 501.2 - Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems.

B. American Society of Civil Engineers (ASCE): www.asce.org/codes-standards:

C. ASTM International (ASTM): www.astm.org:
   1. ASTM A 653 - Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
   4. ASTM A 240 – Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
   7. ASTM D 1621 - Compressive Properties of Rigid Cellular Plastics.
11. ASTM D 6226 - Standard Test Method for Open Cell Content of Rigid Cellular Plastics

D. National Fire Protection Association (NFPA)

E. FM Global (FM): www.fmglobal.com:
   1. FM 4880 American National Standard for Evaluating Insulated Wall and Roof/Ceiling Assemblies
   2. FM 4881 Approval Standard for Class 1 Exterior Wall Systems.

F. Canadian Standards Association (CSA)
   3. CAN/ULC S134 – Fire Test of Exterior Wall Assemblies.
   4. CAN/ULC S138 – Fire Growth of Insulated Building Panels in a Full Scale Room Configuration.

G. Green Seal (GS) www.greenseal.org

H. US Green Building Council (USGBC): www.usgbc.org:
   1. Leadership in Energy and Environmental Design (LEED) Green Building Rating System

1.4 QUALITY ASSURANCE

A. Manufacturer/Source: Provide metal panel assemblies and accessories from a single manufacturer approved under an accredited third-party quality control program

B. Manufacturer Qualifications: Approved manufacturer listed in this Section with minimum ten years' experience in the manufacturing of similar products and successful use in similar applications.

Specifier: Retain paragraph below if Owner allows substitutions but requires strict control over qualifying of substituted manufacturers.
1. Approval of Comparable Products: Submit the following in accordance with project substitution requirements, within time allowed for substitution review:
   a. Product data, including certified independent test data indicating compliance with requirements.
   b. Samples of each component.
   c. Sample submittal from similar project.
   d. Project references: Minimum of five installations not less than five years old, with Owner and Architect contact information.
   e. Sample warranty.
   f. Certificate from an accredited third-party Quality Control Program.

2. Substitutions following award of contract are not allowed except as stipulated in Division 01 General Requirements

3. Approved manufacturers must meet separate requirements of Submittals Article.

   Specifier: Review of manufacturers’ qualifying of installers is recommended. Metl-Span requires Installer and supervisor certification when project requirements include extended warranty.

C. Installer Qualifications: Experienced Installer [certified by metal panel manufacturer] with minimum of five years experience with successfully completed projects of a similar nature and scope.

   1. Installer's Field Supervisor: Experienced mechanic [certified by metal panel manufacturer] supervising work on site whenever work is underway.

   Specifier: Retain paragraph below and edit as appropriate for Federal projects and for public works projects utilizing Federal funds; consult with project Contracting Officer. Coordinate with Submittals Article.

D. Buy American Compliance: Materials provided under work of this Section shall comply with the following requirements:


1.5 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Prior to erection of framing, conduct preinstallation meeting at site attended by Owner, Architect, metal panel installer, metal panel manufacturer's technical representative, inspection agency and related trade contractors.

   1. Coordinate building framing in relation to metal panel system.
   2. Coordinate openings and penetrations of metal panel system.

1.6 ACTION SUBMITTALS

A. Product Data: Manufacturer's data sheets for specified products.

   Specifier: Retain and edit below to comply with Project requirements for LEED or other sustainable design requirements. LEED Credits for which Insulated metal panels can help but would be represented in other sections are:

   MR Credit 6: Rapidly Renewable Materials - The foam core in the wall panels contains a component that contributes to one point for using rapidly renewable buildings materials and products for 2.5% of the total value of all building materials and products used in the project (based on cost.)

B. LEED Submittals
1. EA Credit 1: Optimize Energy Performance: Provide testing or modeling results demonstrating U-values provided in accordance with this section are in compliance with ASHRAE 90.1, including Appendix G.

2. MR Credit 4: Recycled Content. Provide documentation of the following:
   a. Material costs for each product having recycled content.
   b. Percentages by weight of post-consumer and pre-consumer recycled content for each item.
   c. Total weight and cost of products provided.

3. IEQ Credit 4.1: Low-Emitting Materials - Adhesives and Sealants. Provide documentation of the following:
   a. Product data for adhesives and sealants demonstrating compliance with standards of California Department of Public Heath v1.1-2010 and South Coast Air Quality Management District Rule #1113.

4. IEQ Credit 4.2: Low-Emitting Materials – Paints and Coatings. Provide documentation of the following:
   a. Product data for paint and coatings demonstrating compliance with the VOC limits as established in Green Seal Standard GS-11

C. Shop Drawings: Show layouts of metal panels. Include details of each condition of installation, panel profiles, and attachment to building. Provide details at a minimum scale 1-1/2-inch per foot of edge conditions, joints, fastener and sealant placement, flashings, openings, penetrations, and special details. Make distinctions between factory and field assembled work.
   1. Include data indicating compliance with performance requirements.
   2. Indicate points of supporting structure that must coordinate with metal panel system installation.
   3. Include structural data indicating compliance with performance requirements and requirements of local authorities having jurisdiction.

D. Samples for Initial Selection: For each exposed product specified including sealants. Provide representative color charts of manufacturer's full range of colors.

E. Samples for Verification:
   1. Provide 12-inch- (305 mm) long section of each metal panel profile.
   2. Provide color chip verifying color selection.

1.7 INFORMATIONAL SUBMITTALS

A. Product Test Results: Indicating compliance of products with requirements.

Specifying Contractor: Retain option in paragraph below if Project requirements include delegated design by Contractor.

B. Qualification Information: For Installer

C. Accreditation Certificate: Indicating that manufacturer is accredited under an accredited third-party Quality Control Program, including IAS AC472 and based upon chapter 17 of the International Building Code (IBC).

D. Buy American Certification: Manufacturers' letters of compliance acceptable to authorities having jurisdiction, indicating products comply with requirements.

E. Warranty:

Metl-Span Insulated Wall_E04XX INSULATED METAL WALL PANELS
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1. Submit manufacturer's written two (2) year limited warranty providing panels to be free from defects in materials and workmanship, beginning from the date of substantial completion excluding coil coatings (paint finishes) that are covered under a separate warranty.

2. The installation contractor shall issue a separate warranty against defects in installed materials and workmanship, beginning from the date of substantial completion of the installation.

1.8 CLOSEOUT SUBMITTALS

A. Maintenance data.

B. Manufacturer's Warranty: Executed copy of manufacturer's warranty.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Protect products of metal panel system during shipping, handling, and storage to prevent staining, denting, deterioration of components or other damage. Protect panels and trim bundles during shipping. Protect painted surfaces with a protective covering before shipping.

1. Deliver, unload, store, and erect metal panels and accessory items without deforming panels or exposing panels to surface damage from weather or construction operations.

2. Store in accordance with Manufacturer's written instructions.

3. Shield foam insulated metal panels from direct sunlight until all components are installed.

1.10 WARRANTY

Specifier: Warranty terms below are available from Metl-Span. Verify that other allowable manufacturers furnish warranty meeting requirements.

A. Special Manufacturer's Warranty: Submit Manufacturer's two (2) year limited warranty providing panels to be free from defects in materials and workmanship, beginning from the date of substantial completion excluding coil coatings (paint finishes) that are covered under a separate warranty.

B. The installation contractor shall issue a separate warranty against defects in installed materials and workmanship, beginning from the date of substantial completion of the installation.

PART 2 - PRODUCTS

2.1 MANUFACTURER

Specifier: Retain basis of design manufacturer and products listed in this Article where allowed. If inserting comparable manufacturers, carefully review products and engineering capabilities in relation to requirements of this Section, to ensure that other approved manufacturers offer products meeting Metl-Span's standards.

A. Basis of Design Manufacturer: Metl-Span, a Division of the Cornerstone Building Brands family; Lewisville, Texas Tel: 972.221.6656; Email: info@metlspan.com; Web: metlspan.com.

B. Provide basis of design product [, or comparable product approved by Architect prior to bid].

2.2 PERFORMANCE REQUIREMENTS
A. General: Provide metal panel system meeting performance requirements as determined by application of specified tests by a qualified testing facility on manufacturer's standard assemblies.

Specifier: Recycled Content paragraph below describes calculation utilized for LEED-NC Credit MR 4. Modify as required to meet project recycled content requirements, or delete if recycled content requirements are stipulated solely in Division 01 Section "Sustainable Design Requirements."

B. Structural Performance: Provide metal panel assemblies capable of withstanding the effects of indicated loads and stresses within limits and under conditions indicated, as determined by ASTM E 72 or ASTM E 1592 applied in accordance with ICC AC 04, Section 4, Panel Load Test Option or Section 5, Panel Analysis Option:

Specifier: Consult structural engineer and edit below as required by local codes. Insert structural data below if not indicated on drawings. Select applicable deflection limit.

1. Wind Loads: Determine loads based on applicable building code, wind speed, importance factor, exposure category, and internal pressure coefficient indicated on drawings.
   a. Wind Negative Pressure: Certify capacity of metal panels by testing of proposed assembly.

2. Deflection Limits: Withstand inward and outward wind-load design pressures in accordance with applicable building code with maximum deflection of \[\frac{1}{120}\] \[\frac{1}{180}\] \[\frac{1}{240}\] of the span with no evidence of failure.

Specifier: Retain FM Approvals' listing requirement for FM Global-insured projects or where FM Global requirements are used as minimum design standard.

C. FM Approvals Listing: Comply with FM Approval 4881. Provide metal wall panel assembly listed in FM Approvals' "Approval Guide."

D. Fire Performance Characteristics: Provide metal panel systems with the following fire-test characteristics determined by indicated test standard as applied by testing and inspection agency acceptable to authorities having jurisdiction.

1. Surface-Burning Characteristics: The insulating core shall have been tested per ASTM E 84. The core shall have:
   a. Flame spread index: 25 or less.
   b. Smoke developed index: 450 or less.

Specifier: Approval is applicable to structures of unlimited Height.

2. Room Test Performance: FM Global 4880: The panel assembly shall not support a self-propagating fire which reaches any limits of the 50' (15.24m) high corner test structure as evidenced by flaming or material damage of the ceiling of the assembly.

3. Fire Propagation: The fire assembly shall meet the requirements of the standard for NFPA 285

4. Fire Growth: The fire assembly shall meet the requirements of the standard for NFPA 286

5. Potential Heat: Determined in accordance with NFPA 259

Specifier: Retain Paragraph below for Canadian Projects

6. Canadian Certifications:
a. Surface Burning Characteristics: The composite panel shall have to be tested per CAN/ULC S102. Meets the National Building Code of Canada requirements.
b. Fire Endurance Tests of Building Construction and Materials: The composite panel shall have to be tested per CAN/ULS S101. Meets 15-minute stay in place requirement.
c. Fire Test of Exterior Wall Assemblies. The composite panel shall have to be tested per CAN/ULS S134. Complies with the fire spread and heat flux limitations required by the National Building Code of Canada.
d. Fire Growth of Insulated Building Panels in a Full-Scale Room Configuration: The composite panel shall have to be tested per CAN/ULS S138 Met the Criteria of the Standard.

7. **IBC Chapter 26**: Panel Performance under the above test methods, shall meet the requirements of IBC, Chapter on foam plastics.

**E. Air Infiltration, ASTM E 283:**
1. Maximum 0.01 cfm/sq. ft. (0.050 L/s per sq. m) at static-air-pressure difference of 20 lbf/sq. ft. (958 Pa).

**F. Water Penetration Static Pressure:**
1. ASTM E 331: No uncontrolled water penetration at a static pressure of 20 lbf/sq. ft. (958 Pa).
2. ASTM E 331 Modified (2-hour duration): No uncontrolled water penetration at a static pressure of 6.24 lbf/sq. ft. (300 Pa).

**G. Thermal Movements:** Allow for thermal movements from variations in both ambient and internal temperatures. Accommodate movement of support structure caused by thermal expansion and contraction. Allow for deflection and design for thermal stresses caused by temperature differences from one side of the panel to the other.

**Specifier:** The specific configuration of thermal performance testing has a significant impact on the published results. The thermal performance testing performed by Metl-Span and described below conforms to industry standard testing and ASHRAE 90.1 requirements.

**H. Thermal Performance:** When tested in accordance with ASTM C 518, Measurement of Steady State thermal Transmission, the panels shall provide a k factor of 0.14 btu/sf/hr/deg F at a 75° F (24° C) mean temperature, as required by code, or 0.126 btu/sf/hr/deg F at a 40° F (4° C) mean temperature.

**2.3 INSULATED METAL WALL PANELS**

**A. Concealed Fastener, Insulated Metal Wall Panels with foam core:** Structural metal panels consisting of exterior metal sheet and interior metal sheet with matching 4 by 1/16 inch (102 by 1.5 mm) o.c. profile. Factory foamed-in-place polyurethane core in thermally-separated profile, with tongue-and-groove panel edges, attached to supports using concealed fasteners.
1. **Basis of Design:** Metl-Span, HPCI Barrier
2. G-90 galvanized coated steel conforming to ASTM A 653 or AZ-50 aluminum-zinc alloy coated steel, conforming to ASTM A 792/A 792M, minimum grade 33, prepainted by the coil-coating process per ASTM A 755/A 755M.
Specifier: Prior to selecting panel thickness below, consult manufacturer’s span tables and review selection against panel thickness requirements and span condition. Select appropriate panel configuration to meet requirements of design wind pressure. Important: Consult this document when specifying gauge with the intent that it meet a prescriptive decimal thickness requirement in addition to strength performance requirements. (Click Here to View)

a. Exterior Face Sheet: 26 gauge thickness, with stucco embossed surface.
   1) Finish: Igloo White Polyester
   2) Color: White

b. Interior Face Sheet: 26 gauge thickness, with stucco embossed surface Light Mesa profile.
   1) Finish: [Polyester two-coat system] [Modified silicone-polyester two-coat system] [Fluoropolymer two-coat system] [Vinyl plastisol two-coat system] [304 Stainless Steel] [316 Stainless Steel].
   2) Color: [As indicated] [As selected by Architect from manufacturer’s standard colors] [Match Architect’s custom color].

3. Panel Width: 42 inches (1067 mm)
4. Panel Thickness: [2 inch (51 mm)] [2.5 inch (64 mm)] [3 inch (76 mm)] [4 inch (102 mm)] [5 inch (127 mm)] [6 inch (152 mm)]
5. Insulating Core: Polyurethane with zero ozone depletion potential blowing agent
   a. Closed Cell Content: 90% or more as determined by ASTM D 6226
   b. Compressive Strength: As required to meet structural performance requirements and with a minimum of 22 psi as determined by ASTM D 1621
   c. Shear Strength: As required to meet structural performance requirements and with a minimum of 36 psi as determined by ASTM C 273
   d. Tensile Strength: As required to meet structural performance requirements and with a minimum of 41 psi ASTM D 1623
   e. Minimum Density: 2.0 pcf (32 kg/m3) as determined by ASTM D 1622

Specifier: Insert corresponding panel thickness R-value below if using IMP as continuous insulation or U-factor if treating as an assembly for code compliance purposes. Refer to Metl-Span literature and Paragraph 2.2 J above. Coordinate with information on drawings. Consult Metl-Span representative for details.

f. Thermal Resistance R-Value: [insert corresponding value] deg. F * hr * sq. ft./Btu (K * sq. m/W) per ASTM C 518 at 75 degrees Fahrenheit mean temperature.

6. Heat Transfer Coefficient (U-factor): [insert corresponding value] Btu/hr * sq. ft. * deg. F (W/K * sq. m) as determined by ASTM C 1363 at 75 degrees Fahrenheit mean temperature. Tested specimen must include at least two engaged side joints.

2.4 METAL WALL PANEL ACCESSORIES
A. General: Provide complete metal panel assemblies incorporating trim, copings, fasciae, gutters and downspouts, and miscellaneous flashings. Provide required fasteners, closure strips, and sealants as indicated in manufacturer's written instructions.

B. Flashing and Trim: Match material, thickness, and finish of metal panels.

C. Panel Clips: ASTM A 653/A 653M, G90 (Z180) hot-dip galvanized zinc coating, one-piece, configured for concealment in panel joints, and identical to clips utilized in tests demonstrating compliance with performance requirements.

D. Panel Fasteners: Self-drilling or Self-tapping screws and other acceptable fasteners recommended by metal panel manufacturer. Where exposed fasteners cannot be avoided, supply corrosion-resistant fasteners with heads matching color of metal panels by means of factory-applied coating, with weathertight resilient washers.

E. Joint Sealers:
   1. Sealants: Provide Tape Mastic Sealants, Non-skinning sealants, and Urethane Sealants in accordance with manufacturers standards

2.5 FABRICATION

A. General: Provide factory fabricated and finished metal panels, trim, and accessories meeting performance requirements, indicated profiles, and structural requirements.

B. Fabricate metal panel joints configured to accept sealant providing weathertight seal.

C. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's written instructions, approved shop drawings, and project drawings.

2.6 FINISHES

A. Finishes, General: Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturer's written instructions.

B. Exterior Face Sheet Coil-Coated Finish System
   1. Polyester Two-Coat System: 0.20 – 0.25 mil primer with 0.7 – 0.8 mil color coat
      a. Basis of Design: Metl-Span, Igloo White

C. Interior Face Sheet Coil-Coated Finish System
   1. Polyester Two-Coat System: 0.20 – 0.25 mil primer with 0.7 – 0.8 mil color coat
      a. Basis of Design: Metl-Span, Igloo White
   2. Silicone-Polyester Two-Coat System: 0.20 – 0.25 mil primer with 0.7 – 0.8 mil color coat
      a. Basis of Design: Metl-Span, Silicone Polyester
   3. Fluoropolymer Two-Coat System: 0.2-mil primer with 0.7 - 0.8 mil 70 percent PVDF fluoropolymer color coat
      a. Basis of Design: Metl-Span, Fluoropolymer
   4. Vinyl Plastisol Two-Coat System: 0.2 mil primer with 4 mil high solids plastisol finished with PVC technology.
      a. Basis of Design: Metl-Span, Vinyl
5. 304 and 316 Stainless Steel: 2B 304 or 2B 316 Stainless Steel.
   a. Basis of Design: Metl-Span, Stainless Steel

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine metal panel system substrate with Installer present. Inspect for erection tolerances and other conditions that would adversely affect installation of metal panels.

   1. Inspect framing that will support insulated metal panels to determine if support components are installed as indicated on approved shop drawings and are within tolerances acceptable to metal panel manufacturer and installer. Confirm presence of acceptable framing members at recommended spacing to match installation requirements of metal panels.

   2. Panel Support Tolerances: Confirm that metal panel supports are within tolerances acceptable to metal panel manufacturer but not greater than the following:

      a. 1/4 inch (6 mm) in 20 foot (6100 mm) in any direction.
      b. 3/8 inch (9 mm) over any single wall plane.
      c. Girt Spacing 8 feet (2438 mm) or more: 1/4 inch (6 mm) out only.
      d. Girt Spacing Less Than 8 feet (2438 mm): 1/8 inch (3 mm) out only.
      e. Girt spacing less than 4 feet (1219 mm): 1/16 inch (1.5 mm) inch out only.

B. Correct out-of-tolerance work and other deficient conditions prior to proceeding with insulated metal panel installation.

3.2 METAL PANEL INSTALLATION

A. Concealed-Fastener Insulated Metal Panels with foam core: Install metal panel system in accordance with manufacturer's written instructions, approved shop drawings, and project drawings. Install metal panels in orientation, sizes, and locations indicated. Anchor panels and other components securely in place. Provide for thermal and structural movement.

B. Attach panels to metal framing using screws, fasteners, sealants, and adhesives recommended for application by metal panel manufacturer.

   1. Fasten metal panels to supports with fasteners at each location indicated on approved shop drawings, at spacing and with fasteners recommended by manufacturer.
   2. Cut panels in field where required using manufacturer's recommended methods.
   3. Provide weatherproof jacks for pipe and conduit penetrating metal panels.
   4. Dissimilar Materials: Where elements of metal panel system will come into contact with dissimilar materials, treat faces and edges in contact with dissimilar materials as recommended by metal panel manufacturer.

C. Attach panel flashing trim pieces to supports using recommended fasteners and joint sealers.

D. Joint Sealers: Install sealants where indicated and where required for weatherproof performance of metal panel assemblies.

   1. Seal panel base assembly, openings, panel head joints, and perimeter joints using sealants indicated in manufacturer's instructions.

Specifier: Retain optional wall panel vapor seal bead below when recommended based upon architect's water vapor transmission analysis.
2. Seal wall panel joints; apply continuously without gaps in accordance with manufacturer's written instructions, approved shop drawings, and project drawings.
3. Prepare joints and apply sealants per requirements of Division 07 Section.

3.3 ACCESSORY INSTALLATION
A. General: Install metal panel accessories with positive anchorage to building and weather tight mounting; provide for thermal expansion. Coordinate installation with flashings and other components.
   1. Install components required for a complete metal panel assembly, including trim, copings, flashings, sealants, closure strips, and similar items.
   2. Comply with details of assemblies utilized to establish compliance with performance requirements and manufacturer's written installation instructions.
   3. Set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently weather resistant.

3.4 FIELD QUALITY CONTROL
Specifier: Retain one or both paragraphs below and edit options when scope and complexity of insulated metal panel installation justifies independent inspection and testing provisions.
A. Testing Agency: [Owner will engage] [Engage] an independent testing and inspecting agency acceptable to Architect to perform field tests and inspections and to prepare test reports.

3.5 CLEANING AND PROTECTION
A. Remove temporary protective films immediately in accordance with metal panel manufacturer's instructions. Clean finished surfaces as recommended by metal panel manufacturer.
B. Replace damaged panels and accessories that cannot be repaired to the satisfaction of the Architect.

END OF SECTION