



### Metl-Span Concept Series™ Metal Wall Panels

Metl-Span Concept Series™ Metal Wall Panels are a versatile design choice for wall cladding panels. They are manufactured with a variety of profiles, metal substrates, and surface treatments, and are available in over 60 standard colors plus custom colors. Panels are available on hot-dip galvanized, Galvalume®, or Galvalume Plus® coated steel; aluminum and stainless steel panels are available.

Metl-Span Concept Series™ Wall Panels coated with Metl-Span's own Fluorofinish® Kynar 500® or Hylar 5000®-based fluoropolymer finishes will last for decades. Highly UV resistant and durable in the face of chemical and air borne pollution, salt spray and wind-driven sand, Metl-Span coatings set the standard for the industry.

Stand-off clips for Metl-Span Metal Wall Panels create a vented cavity allowing a drain plane to form behind the panels; the tight engagement of the clips and their extra thickness provide added resistance to deformation and disengagement – providing a long-life installation.

Consult your local Metl-Span representative for design assistance. Contact Metl-Span, Lewisville, TX (972)221-6656, Email: [info@metlspan.com](mailto:info@metlspan.com), [www.metlspan.com](http://www.metlspan.com) for a list of offices.

Metl-Span is a world leader in the manufacture of metal building products and systems for commercial, industrial, architectural and cold storage walls and roofs. Metl-Span is also a world-class coil coater, coating a wide range of products for customers in numerous industries.

METAL WALL PANELS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Concealed fastener metal wall panels, and liner panels as part of the assembly described in Section 2.1.

1.2 RELATED REQUIREMENTS

Specifier: If retaining Related Requirements Article, edit list below to correspond to Project.

- A. Division 01 Section "Sustainable Design Requirements" for requirements.
- B. Division 07 Section "Sheet Metal Flashing and Trim" for sheet metal copings, flashings, reglets and roof drainage items.
- C. Division 07 Section "Joint Sealants" for field-applied joint sealants.
- D. Division 07 Section "Air Barriers" for transition and flashing components of air/moisture barrier.

Specifier: If retaining References Article, edit list below to correspond to Project.

- E. American Architectural Manufacturer's Association (AAMA):
  - 1. AAMA 620 - Voluntary Specification for High Performance Organic Coatings on Coil Coated Architectural Aluminum Substrates.
  - 2. AAMA 621 - Voluntary Specification for High Performance Organic Coatings on Coil Coated Architectural Hot Dipped Galvanized (HDG) and Zinc-Aluminum Coated Steel Substrates.
  - 3. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
- F. American Society of Civil Engineers (ASCE):
  - 1. ASCE 7 - Minimum Design Loads for Buildings and Other Structures.
- G. ASTM International (ASTM):
  - 1. ASTM A 653/A 653M - Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  - 2. ASTM A 666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.

3. ASTM A 755/A 755M - Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil-Coating Process for Exterior Exposed Building Products.
4. ASTM A 792/A 792 M - Standard Specification for Steel Sheet, 55 % Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
5. ASTM B 209 - Specification for Aluminum and Aluminum Alloy Sheet and Plate.
6. ASTM C 754 - Specification for Installation of Steel Framing Members to Receive Screw Attached Gypsum Panel Products.
7. ASTM C 920 - Specification for Elastomeric Joint Sealants.
8. ASTM C 1007 - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories.
9. ASTM E 72 - Standard Test Methods of Conducting Strength Tests of Panels for Building Construction.
10. ASTM E 283 - Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors under Specified Pressure Differences across the Specimen.
11. ASTM E 331 - Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.

H. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA):

1. Architectural Sheet Metal Manual.

### 1.3 PERFORMANCE REQUIREMENTS

Specifier: Add requirements to this Article if Project requirements include delegated design by Contractor.

- A. General: Provide metal wall panel assemblies meeting performance requirements as determined by application of specified tests by a qualified testing agency on manufacturer's standard assemblies.
- B. Air Infiltration: When installed over Insulated Composite Backup Panels or Metal Liner Panels, maximum 0.06 cfm/sq. ft. (0.3 L/s per sq. m) per ASTM E 283 at a static-air-pressure difference of 1.57 lbf/sq. ft. (75 Pa), using minimum 10-by-10 foot (3050-by-3050 mm) test panel that includes side joints.
- C. Water Penetration, Static Pressure: When installed over Insulated Composite Backup Panels or Metal Liner Panels, no uncontrolled water penetration per ASTM E 331 at a minimum static differential pressure of 6.24 lbf/sq. ft. (299 Pa), using minimum 10-by-10 foot (3050-by-3050 mm) test panel that includes side joints.

Specifier: Delete paragraph below if not applicable. Retain High Velocity Hurricane Zone approval if required per local jurisdiction.

- D. Florida State Building Code Compliance: Provide wall panels that comply with the requirements for installation under Florida State Building Code [including] [aside of] the High Velocity Hurricane Zones.

Specifier: For horizontal applications, and other applications where thermal movement is an issue, retain the requirements below. Retain clip fasteners in Part 2.

- E. 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.

Specifier: Retain paragraph below if foam plastic insulation is included within the wall system.

- F. Wall systems that incorporate foam plastic insulation must be tested by the foam plastic supplier in accordance with NFPA-285.

#### 1.4 QUALITY ASSURANCE

- A. Manufacturer/Source: Provide metal wall panel and panel accessories from a single manufacturer.

Specifier: Retain paragraph below if Owner allows substitutions but requires strict control over qualifying of substitutions.

- B. Manufacturer Qualifications: Approved manufacturer listed in this Section with minimum 10 years experience in manufacture of similar products in successful use in similar applications.
  - 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. Load span tables including evaluation of panel clip and panel side joint interaction.
    - c. Samples of each component.
    - d. Project references: Minimum of 5 installations not less than 5 years old, with Owner and Architect contact information.
    - e. Sample warranty.
  - 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.
- C. Wall Systems Installer Qualifications: Experienced Installer with minimum of 5 years experience with successfully completed projects of a similar nature and scope.

#### 1.5 ADMINISTRATIVE REQUIREMENTS

- A. Pre-installation Meeting: Conduct preinstallation meeting at site attended by Owner, Architect, manufacturer's representative, and other trade contractors.
  - 1. Coordinate building framing in relation to metal wall panel assembly.
  - 2. Coordinate installation of building air and water barrier behind metal wall panel assembly.

3. Coordinate window, door and louver, and other openings and penetrations of metal wall panel assembly.

#### 1.6 ACTION SUBMITTALS

- A. Product Data: Manufacturer's data sheets, for specified products.
  1. Include data indicating compliance with performance requirements.
- B. Shop Drawings: Provide shop drawings prepared by manufacturer or manufacturer's authorized Installer. Include full elevations showing openings and penetrations. Include details of each condition of installation and attachment. Provide details at a minimum scale of 1-1/2-inch per foot (1:8) of all required trim and extrusions needed for a complete installation.
  1. Indicate points of supporting structure that must coordinate with metal wall panel assembly installation.
  2. Indicate details of fastening, including clip spacing, supported by load span tables that include an evaluation of clip and panel side joint interaction.
- C. Samples for Initial Selection: For each product specified. Provide representative color charts of manufacturer's full range of colors.
- D. Samples for Verification: Provide 12-inch (300 mm) section of panel(s) showing finishes. Provide 12-inch (300 mm) long pieces of trim pieces and other exposed components.

#### 1.7 INFORMATIONAL SUBMITTALS

- A. Product Test Reports: Indicating compliance of products with requirements, from a qualified independent testing agency.

Specifier: Retain paragraph below when Project requirements include compliance with Federal Buy American provisions. METL-SPAN Concept Series Metal Wall Panels comply with requirement.

- B. Buy American Act Certification: Submit documentation certifying that products comply with provisions of the Buy American Act 41 U.S.C 10a – 10d.

Specifier: Delete paragraph below if not applicable. Retain High Velocity Hurricane Zone approval if required per local jurisdiction.

- C. State of Florida [High Velocity Hurricane Zone] Product Approval.
- D. Qualification Information: For Installer firm.
- E. Manufacturer's warranty: Submit sample warranty.

#### 1.8 CLOSEOUT SUBMITTALS

- A. Maintenance data.

## 1.9 DELIVERY, STORAGE, AND HANDLING

- A. Protect metal wall panel products during shipping, handling, and storage to prevent staining, denting, deterioration of components or other damage.
  - 1. Deliver, unload, store, and erect metal wall panel products and accessory items without misshaping panels or exposing panels to surface damage from weather or construction operations.

## 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: On manufacturer's standard form, in which manufacturer agrees to repair or replace components of metal wall panel assemblies that fail in materials and workmanship within [two] years from date of Substantial Completion.

Specifier: Consult METL-SPAN representative to verify available finish warranty.

- B. Special Panel Finish Warranty: On manufacturer's standard form, in which manufacturer agrees to repair or replace metal wall panels that display evidence of deterioration of finish within [20] years from the date of substantial completion.

## PART 2 - PRODUCTS

### 2.1 SYSTEM DESCRIPTION

Specifier: Retain one or more of six wall system descriptions below that correspond to Project Requirements; edit as required.

System (A) below describes installation of metal wall panels over METL-SPAN BW Systems.

- A. **Metal Wall Panels over Insulated-Composite Backup Panel Wall System:** Single-skin concealed fastener metal wall panels serving as the exterior rainscreen cladding component of a metal wall panel system that includes insulated composite metal wall backup panels specified in Division 07 Section "Insulated-Composite Metal Wall Panel Backup System." Metal wall backup panels provide thermal, air, water, and water vapor control. Metal wall panel installation specified in this Section includes secondary metal subgirt framing for panel attachment.
- B. **Metal Wall Panels over Multi-Component Framed Wall System:** Single-skin concealed fastener metal wall panels applied as exterior rainscreen cladding over wall framing specified in Division 05 Section "Cold-Formed Metal Framing" with exterior sheathing specified in Division 06 Section "Sheathing", an applied membrane that provides air, moisture, and water vapor control specified in Division 07 Section "Air Barriers", and insulation within the framing specified in Division 07 Section "Thermal Insulation". Metal wall panel installation specified in this Section includes [secondary metal subgirt framing and] mounting clips for panel attachment.

Specifier: Retain subparagraph below. Product is not by METL-SPAN.

1. Air, moisture, and water vapor control membrane is provided under Division 07 Section "Air Barriers."
- C. **Metal Wall Panels over Outside-Insulated Framed Wall System:** Single-skin concealed fastener metal wall panels applied as exterior rainscreen cladding over wall framing specified in Division 05 Section "Cold-Formed Metal Framing" with exterior sheathing specified in Division 06 Section "Sheathing", an applied membrane that provides air, moisture, and water vapor control specified in Division 07 Section "Air Barriers", and insulation [within the framing and] applied outboard of the sheathing specified in Division 07 Section "Thermal Insulation". Metal wall panel installation specified in this Section includes [secondary metal subgirt framing and] mounting clips for panel attachment.

Specifier: Retain subparagraph below. Product is not by Metl-Span.

1. Air, moisture, and water vapor control membrane is provided under Division 07 Section "Weather Barriers."
- D. **Metal Wall Panels over Masonry Wall System:** Single-skin concealed fastener metal wall panels applied as exterior rainscreen cladding over a masonry wall[ and rigid board insulation] specified in Division 04 Section "Unit Masonry" and an applied membrane that provides air, moisture, and water vapor control specified in Division 07 Section "Air Barriers". Metal wall panel installation specified in this Section includes [secondary metal subgirt framing and] mounting clips for panel attachment.

Specifier: Retain subparagraph below. Product is not by Metl-Span.

1. Air, moisture, and water vapor control membrane is provided under Division 07 Section "Weather Barriers."
- E. **Metal Wall Panels over Uninsulated Framed [Screen] Wall System:** Single-skin concealed fastener metal wall panels applied as exterior barrier cladding over wall framing specified in [Division 05 Section "Cold-Formed Metal Framing"] [Division 13 Section "Metal Building Systems"] [and water-resistive barrier specified in Division 07 Section "Weather Barriers"]. Metal wall panel installation specified in this Section includes [secondary metal subgirt framing and] mounting clips for panel attachment.

## 2.2 MANUFACTURERS

- A. Basis of Design: **Metl-Span, Concept Series Metal Wall Panels.** Provide basis of design product [, or comparable product approved by Architect prior to bid].
1. Metl-Span; Lewisville, TX 75057. Tel: (877)585-9969. Tel: (972)221-6656. Fax: (972)420-9382. Email: [info@metlspan.com](mailto:info@metlspan.com). Web: [www.metlspan.com](http://www.metlspan.com).

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## 2.3 PANEL MATERIALS

### A. **Metallic-Coated Steel Face Sheet:** Coil-coated, ASTM A 755/A 755M.

1. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653/A 653M, G90 (Class Z275), structural steel.

Specifier: Select required metal face sheet thickness from options below. 0.024 inch/24 gage (0.60 mm) thickness is only available in Metl-Span CS-260/260E and CS 660/660E panels.

2. Face Sheet: Minimum [0.024 inch/24 gage (0.60 mm)] [0.030 inch/22 gage (0.76 mm)] [0.036 inch/20 gage (0.91 mm)] [0.047 inch/18 gage (1.19 mm)] nominal uncoated thickness.
3. Surface: [Unembossed [Non-Directional Embossed]].

## 2.4 CONCEALED FASTENER METAL WALL PANELS

Specifier: All Metl-Span Concept Series concealed fastener metal wall panels are suitable for horizontal and vertical installation. Panels are manufactured with a common lock joint design that permits the integration of multiple profiles in one system. Stand-off clips provide a ventilated cavity and a drain plane behind panels when required. Standard lengths are 5 to 30 feet; custom length panels are available on special order.

Specify optional factory-applied sealant in vertical panel side laps when added water resistance is required. Metl-Span recommends a complete water-resistant barrier behind horizontal panels. Concept Series panels without added joint sealants function as pressure-equalized rainscreen cladding.

If using more than one metal wall panel, retain the drawing designation below for each panel. If metal types, thicknesses, surfaces, or finish systems differ, add notes below to indicate the metal type, thickness, surface, and finish for each panel on project.

- ### A. Metal Wall Panels, General:
- Factory-formed, concealed fastener panels with interconnecting side joints, fastened to supports with concealed fasteners, with factory-applied sealant in side laps when required to meet performance requirements.

Specifier: 200 Series Metal Wall Panels are manufactured in 12 inch widths and are available in standard panel lengths from 5 foot (1524 mm) to 30 foot (9144 mm). Custom length panels are available on special order.

- ### B. Reveal-joint profile with raised flat pan **MWP#**\_\_\_\_\_:

1. Basis of Design Product: **CS-200**.
2. Panel Coverage: 12 inches (305 mm).
3. Panel Height: 0.875 inch (22 mm).

- ### C. Three-rib Profile **MWP#**\_\_\_\_\_:

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1. Basis of Design Product: **CS-260**.
2. Panel Coverage: 12 inches (305 mm).
3. Panel Height: 0.875 inch (22 mm).

Specifier: 600 Series Metal Wall Panels are manufactured in 16 inch widths.

D. Double-reveal profile with evenly-spaced raised flat pan between reveals **MWP#** \_\_\_\_:

1. Basis of Design Product: **CS-620**.
2. Panel Coverage: 16 inches (406 mm).
3. Panel Height: 0.875 inch (22 mm).

E. Four-rib profile with recessed flat pan between ribs **MWP#** \_\_\_\_:

1. Basis of Design Product: **CS-660**.
2. Panel Coverage: 16 inches (406 mm).
3. Panel Height: 0.875 inch (22 mm).

Specifier: Select metallic-coated steel face sheet or from options below. AAMA 621 is metallic-coated steel sheet finish standard. Exposed Coil-Coated Finish System:

4. Fluoropolymer Two-Coat System: 0.2 mil primer with 0.8 mil 70 percent PVDF fluoropolymer color coat, AAMA [620] [621].
  - a. Basis of Design: **Metl-Span Fluoropon finish**.

Specifier: Retain one or both subparagraphs below has required for Project.

5. Exterior Surface: [As indicated] [As selected by Architect from manufacturer's standard colors] [Match Architect's custom color].
6. Interior Surface: [Manufacturer's standard primer color] [As indicated] [As selected by Architect from manufacturer's standard colors] [Match Architect's custom color].

F. Color:

Specifier: Retain one or both subparagraphs below has required for Project.

1. Interior Exposed Surface: [As indicated] [As selected by Architect from manufacturer's standard colors] [Match Architect's custom color].
2. Concealed Surface: Manufacturer's standard primer color.

## 2.5 METAL WALL PANEL ACCESSORIES

Specifier: Retain paragraph below when metal wall panels are used in conjunction with Metl-Span MetalWrap metal wall panel backup system, which provides a one-step insulated substrate incorporating watertight joints and air/vapor control.

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- A. **Metal Wall Panel Backup System:** Refer to Division 07 Section "Insulated-Composite Metal Wall Backup Panel."
- B. Metal Wall Panel Accessories, General: Provide complete metal wall panel assembly incorporating trim, copings, fascia, parapet caps, soffits, sills, inside and outside corners, and miscellaneous flashings. Provide manufacturer's factory-formed clips, shims, flashings, lap tapes, and closure strips for a complete installation. Fabricate and install accessories in accordance with SMACNA Manual.
- C. Formed Flashing and Trim: Match material, thickness, and color of metal wall panel face sheets.
- D. Sealants: Type recommended by metal wall panel manufacturer for application, meeting requirements of Division 07 Section "Joint Sealants."
- E. Fasteners, General: Flashing tape, self-tapping screws, bolts, nuts, and other acceptable fasteners recommended by panel manufacturer. Where exposed fasteners cannot be avoided for miscellaneous applications, supply corrosion-resistant fasteners with heads matching color of metal wall panels by means factory-applied coating.

Specifier: Select either standoff clip or flush clip per project design requirements.

- F. Concealed Clips: Galvanized steel, 0.06 inch/16 ga. (1.52 mm) nominal thickness, designed to allow unimpeded thermal movement of panel and configured to [hold panel minimum 1/2 inch (12.7 mm) from substrate] [hold panel flush to substrate].

## 2.6 SECONDARY METAL SUBGIRT FRAMING

- A. Miscellaneous Framing Components, General: Cold-formed metallic-coated steel sheet, ASTM A 653/A 653M, G90 (Z180).
  - 1. Hat Channels: 0.06 inch/16 ga. (1.52 mm) minimum – nominal thickness.
  - 2. Sill Channels: 0.06 inch/16 ga. (1.52 mm) minimum – nominal thickness.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine metal wall panel substrate with Installer present. Inspect for erection tolerances and other conditions that would adversely affect installation of metal wall panels.
- B. Wall Substrate: Confirm that wall substrate is within tolerances acceptable to metal wall panel system manufacturer.
  - 1. Maximum deviations acceptable:
    - a. 1/4-inch in 20 feet (6.4 mm in 6 m) vertically or horizontally from face plane of framing.
    - b. 1/2-inch (12.7 mm) across building elevation.

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- c. 1/8-inch in 5 feet (3.2 mm in 1.5 m).

Specifier: Retain one, two, or three following paragraphs as appropriate to Project.

- C. **Framing:** Inspect framing that will support metal wall panels to determine if support components are installed as indicated on approved shop drawings. Confirm presence of acceptable framing members at recommended spacing to match installation requirements of metal wall panels.
- D. **Air/Moisture Barriers:** Confirm that work has been completed, inspected, and tested as required.
- E. **Openings:** Verify that window, door, louver and other penetrations match layout on shop drawings.
- F. Advise G.C., in writing, of out-of-tolerance work and other deficient conditions prior to proceeding with metal wall panel system installation.
- G. Correct out of tolerance work and other deficient conditions prior to proceeding with insulated composite backup panel installation.

### 3.2 SECONDARY FRAMING INSTALLATION

Specifier: Retain article if secondary framing is part of work of this Section.

- A. Secondary Metal Framing: Install secondary metal framing components to tolerances indicated, as shown on approved shop drawings. Install secondary metal framing and other metal panel supports per ASTM C 1007 and metal wall panel manufacturer's recommendations.

### 3.3 METAL WALL PANEL INSTALLATION

- A. General: Install metal wall panels in accordance with approved shop drawings and manufacturer's recommendations. Install metal wall panels in orientation, sizes, and locations indicated. Anchor metal wall panels and other components securely in place. Provide for thermal and structural movement

Specifier: Retain paragraph below if utilizing Metl-Span BW Systems panels.

- 1. **Insulated-Composite Metal Wall Backup Panels:** Install in accordance with requirements of Division 07 Section "Insulated-Composite Metal Wall Backup Panels."
- B. Attach panels to metal framing using recommended clips, screws, fasteners, sealants, and adhesives indicated on approved shop drawings.
  - 1. Fasteners for Steel Wall Panels: Stainless-steel for exterior locations and locations exposed to moisture; carbon steel for interior use only.
  - 2. Fasten metal wall panels to supports with concealed clips at each joint at location, spacing, and with fasteners recommended by manufacturer. Install clips to supports with self-tapping fasteners.

3. Provide weatherproof escutcheons for pipe and conduit penetrating exterior walls.
4. Dissimilar Materials: Where elements of metal wall panel system will come into contact with dissimilar materials, treat faces and edges in contact with dissimilar materials as recommended by manufacturer.

C. Joint Sealers: Install joint sealants where indicated on approved shop drawings.

### 3.4 ACCESSORY INSTALLATION

A. General: Install metal wall panel accessories with positive anchorage to building and provide for thermal expansion. Coordinate installation with flashings and other components.

1. Install related flashings and sheet metal trim per requirements of Division 07 Section "Sheet Metal Flashing and Trim."
2. Install components required for a complete metal wall panel assembly, including trim, copings, corners, lap strips, flashings, sealants, fillers, closure strips, and similar items.
3. Comply with performance requirements and manufacturer's written installation instructions.
4. Provide concealed fasteners except where noted on approved shop drawings.
5. Set units true to line and level as indicated.

### 3.5 FIELD QUALITY CONTROL

Specifier: Retain paragraph below when scope and complexity of metal wall panel installation justifies inspection expense.

A. Manufacturer's Field Service: Engage a service representative authorized by metal wall panel manufacturer to inspect completed installation. Submit written report.

B. Correct deficiencies noted in manufacturer's report.

### 3.6 CLEANING AND PROTECTION

A. Remove temporary protective films. Clean finished surfaces as recommended by metal wall panel manufacturer. Clear weep holes and drainage channels of obstructions, dirt, and sealant. Maintain in a clean condition during construction.

B. Replace damaged panels and accessories that cannot be repaired by finish touch-up or minor repair.

END OF SECTION

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