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Specifier Note: This product guide specification is written according to the Construction Specifications Institute (CSI) current versions of MasterFormat, SectionFormat and PageFormat and as described in various Practice Guides.

Use this specification as the basis for developing a project specification.

Layout of Header/Footer is based on PageFormat, edit as necessary in compliance with project requirements.

Section must be carefully reviewed and edited by Architect/Design Professional to meet requirements of project and local building code.

Coordinate this section with Drawings and other specification sections; coordinate these numbers and titles with sections included for specific project.

Brackets **[\_\_\_\_\_]**, **and/or**, **[<\_\_\_\_\_>]** and “or” are used to indicate when a selection is required.

Windows 2010 - Upon completion of section editing, you may turn-off “Specifier Notes” as follows; click on “File” then on “Options” then “Display” and remove check mark for “Hidden text” in two locations.

HIDDEN TEXT: Specifier Notes may be turned on throughout section as follows; click on “File” then on “Options” then “Display” and add check mark for “Hidden text” in two locations.

SECTION 07 4213.24

ALUMINUM METAL PLATE WALL PANELS

Specifier Note: This section covers Dri-Design Aluminum Metal Plate Wall Panels. Consult with Dri-Design for technical assistance in editing this section for the specific project requirements.

# - GENERAL

## SECTION INCLUDES

### Aluminum metal plate wall panels

Specifier Note: Edit the following list of related requirements for the project, and coordinate for consistent use of section numbers and titles. List any other sections with work directly related to work of this section.

## RELATED REQUIREMENTS

### Section 05 4000 – Cold-Formed Metal Framing: Wall panel substrates support framing.

### Section 06 1000 – Rough Carpentry: Plywood substrate wall sheathing.

### Section 07 2500 – Weather Barriers: Air and moisture barrier required as part of metal wall panel assembly.

### Section 07 6200 – Sheet Metal Flashing and Trim: Field formed flashings and other sheet metal work.

### Section 07 9200 – Joint Sealants: Perimeter sealant.

## DEFINITIONS

### Metal Plate Wall Panel Assembly: Metal plate wall panels, attachment system components, miscellaneous metal framing, and accessories necessary for a complete weather tight wall system based on AAMA CW-RS-1.

Specifier Note: Edit the following list of reference standards to only those being used for project.

## REFERENCE STANDARDS

### AAMA - American Architectural Manufacturers Association (www.aamanet.org).

#### AAMA CW-RS-1 – The Rain Screen Principle and Pressure-Equalized Wall Design; 2012.

#### AAMA 501.1 – Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure; 2017.

#### AAMA 501.2 - Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems; 2015.

#### AAMA 508 – Voluntary Test Method and Specification for Pressure Equalized Rainscreen Wall Cladding Systems; 2021.

#### AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2020.

#### AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.

### ASTM International - American Society for Testing and Materials (www.astm.org).

#### ASTM B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus; 2019.

#### ASTM C754 - [Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products](http://www.astm.org/Standards/C754.htm); 2020.

#### ASTM D523 - Standard Test Method for Specular Gloss; 2018.

#### ASTM D2244 – Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates; 2022.

#### ASTM D2247 - Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity; 2015(2020).

#### ASTM D4214 - Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films; 2007(2015).

#### ASTM E8/E8M - Standard Test Methods for Tension Testing of Metallic Materials; 2022.

#### ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2019.

#### ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2021.

#### ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000(2016).

#### ASTM E1233/E1233M – Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Cyclic Air Pressure Differential; 2014(2021).

### LEED – Leadership in Energy and Environmental Design, U.S. Green Building Council (www.usgbc.org/leed).

### NAAMM – National Association of Architectural Metal Manufacturers (www.naamm.org).

### SMACNA – Sheet Metal and Air Conditioning Contractors’ National Association, Inc. (www.smacna.org).

#### Architectural Sheet Metal Manual; 2012.

### TAS - Testing Application Standards; Florida Building Code, 2010 (codes.iccsafe.org).

#### TAS 202 – Criteria for Testing Impact & Nonimpact Resistant Building Envelope Components Using Uniform Static Air Pressure; 1994.

#### TAS 203 – Criteria for Testing Products Subject to Cyclic Wind Pressure Loading; 1994.

### Voluntary Product Standard; Department of Commerce (DOC) and National Institute of Standards and Technology (NIST) (www.apawood.org).

#### PS 1 – Structural Plywood; 2019(Revised 2020).

## ADMINISTRATIVE REQUIREMENTS

### Coordination: Coordinate panel assemblies with rain drainage, flashing, trim, stud back-up, soffits, and other adjoining work.

Specifier Note: Review Preinstallation meeting information and confirm that this Work is extensive enough to justify this meeting and for project specific meeting requirements.

### Preinstallation Meeting:

#### Attendees:

##### Owner.

##### Architect.

##### Installer.

##### Panel manufacturer's representative.

##### Structural support installer’s.

##### Installer’s whose work interfaces with or affects wall panels including installers of doors, windows, and louvers.

#### Review and finalize construction schedule.

#### Verify availability of materials, installer's personnel, equipment, and facilities needed to maintain schedule.

#### Review means and methods related to installation, including manufacturer's written instructions.

#### Examine support conditions for compliance with requirements, including alignment and attachment to structural members.

#### Review flashings, special siding details, wall penetrations, openings, and condition of other construction that affects this Work.

#### Review temporary protection requirements for during and after installation of this Work.

Specifier Note: Edit the following list of submittal requirements and provide only those required for project, and verify section number and title for project submittal procedure requirements.

## SUBMITTALS

### See Section 01 3000 – Administrative Requirements, for submittal procedures.

### Product Data: Submit for each type of product indicated, include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of metal plate wall panel and accessory.

### Shop Drawings: Submit fabrication and installation layouts of metal plate wall panels; including details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, accessories, and special details.

#### Provide distinction between factory-assembled, shop-assembled, and field-assembled work.

#### Provide details of following items at full scale.

##### Manufacturer’s standard sheet metal trims.

##### Components of wall panel construction, anchorage methods, and hardware.

### Coordination Drawings: Submit exterior elevations, drawn to scale, that have the following items shown and coordinated with each other, using input from installers of the following items:

Specifier Note: Revise following paragraphs to suit Project.

#### Metal plate wall panels and attachments.

#### Girts.

#### Wall-mounted items including doors, windows, louvers, and lighting fixtures.

#### Penetrations of wall by pipes and utilities.

### Samples: Submit for each type of exposed finish required, and prepared on samples of size as follows:

#### Aluminum Metal Plate Wall Panels: At least 2 inches by 3 inches.

### Test and Inspection Reports: Submit test and inspection reports on each type of wall panel system provided for project based on evaluation of comprehensive tests performed by qualified testing agency.

### Maintenance Data: Submit maintenance data for metal plate wall panels.

Specifier Note: Submit copy of warranty to provide Architect and/or Owner the opportunity to verify warranty coverage complies with necessary requirements.

### Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

Specifier Note: Review Sustainable Design information or LEED requirements and coordinate with other Division 01 sustainable or LEED requirements for project.

### Sustainable Design Submittals **[LEED Reports]**:

#### Submit documentation from manufacturer for amounts of pre-consumer and post-consumer recycled content for products specified, and include statement indicating costs for materials having recycled content.

#### Submit documentation providing location of manufacturing.

## QUALITY ASSURANCE

### Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with at least five years of documented experience.

### Installer: Company specializing in performing work of this section and approved by manufacturer.

#### Install system in strict compliance with manufacturer’s installation instructions.

### Anodized Finish Applicator: Provide either caustic (traditional) or eco-friendly (acid) etching technologies.

#### Use fully automated, computer-controlled process lines for consistency of finish throughout project.

#### Use documented production line quality control protocols in accordance with AAMA 611 test procedures.

### Source Limitations: Obtain each type of metal plate wall panel from single source and from single manufacturer.

Specifier Note: Review Mock-Up information and coordinate that it is in compliance with project requirements.

## MOCK-UPS

### Mock-ups: Provide mock-ups to verify selections made under sample submittals and to demonstrate aesthetic effects and to establish quality standards for fabrication and installation.

Specifier Note: Edit following sub-paragraph for large scale mock-up, indicate portion of building to represent mock-up on Drawings, or indicate mock-up as separate element on Drawings in compliance with project requirements.

#### Build mock-up of typical wall panel assembly **[as shown on Drawings]** or **[<insert size>]**, including **[corner,]** **[soffits,]** supports, attachments, and accessories.

##### Include at least four panels to represent a four-way panel joint and showing full thickness.

Specifier Note: Edit following sub-paragraph as required for water spray test and coordinate with PART 3 Field Quality Control requirements in compliance with project requirements.

#### Water Spray Test: Conduct water-spray test of mock-up metal panel assembly, test water penetration in accordance with AAMA 501.2.

#### Approval of mock-ups does not constitute approval of deviation from Contract Documents within mock-ups unless these deviations are approved by Architect in writing.

#### Subject to compliance with requirements, approved mock-ups **[may]** or **[may not]** become part of completed Work if undisturbed upon Date of Substantial Completion.

## DELIVERY, STORAGE, AND HANDLING

### Deliver materials to site in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

### Storage and Handling: Store materials in clean, dry, interior area in accordance with manufacturer’s instructions.

### Deliver panels, components, and other manufactured items without damage or deformation.

### Protect panels during transportation, handling, and installation from weather, excessive temperatures and construction operations.

### Handle panels in strict compliance with manufacturer’s instructions and recommendations, and in a manner to prevent bending, warping, twisting, and surface damage.

#### Store panels vertically with top of panel down, storage of panels horizontally is not permitted.

### Store panels covered with suitable weather tight and ventilated covering.

### Provide storage of panels to ensure dryness, with positive slope for drainage of moisture.

### Do not store panels in contact with other materials that might cause staining, denting, or other surface damage.

### Remove strippable protective covering from aluminum panel prior to installation.

## SITE CONDITIONS

### Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of this Work to be performed according to manufacturer's installation instructions and warranty requirements.

### Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before panel fabrication and indicate measurements on Shop Drawings.

#### Coordinate with construction schedule.

## WARRANTY

### See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

### Wall System Warranty: Provide wall panel manufacturer warranty, agreeing to correct defects in manufacturing of materials within a one year period after Date of Substantial Completion.

#### Failures include, but are not limited to, the following:

##### Structural failures, including rupturing, cracking, or puncturing.

##### Deterioration: Beyond normal weathering of wall system metals and other materials.

Specifier Note: Review available warranty and warranty periods for aluminum panel units and components.

 70 percent flouropolymer PVDF type paint finish; 20 years – Standard, AAMA 2605.

 Class 1 natural anodized type paint finish; 5 years – Standard, 10 years available; AAMA 611.

### Panel Material Warranty: Provide panel material manufacturer warranty, agreeing to repair finish of metal plate wall panels that show evidence of deterioration of factory-applied finishes within specified warranty period.

#### Finish Warranty Period: **[\_\_\_\_\_]** years from Date of Substantial Completion.

Specifier Note: Edit the following, PVDF or anodized aluminum finish warranty coverage, in compliance with project finish requirements.

#### Warranty Coverage: In accordance with AAMA 2605 for 70 percent PVDF resin on aluminum finish requirements.

##### Fading, Loss of Color Retention: Loss of 5 Delta E units (Hunter) or less, in accordance with ASTM D2244.

##### Chalking, Chalky White Powder on Panel Surface: Chalking at No. 8 or less for colors, or No. 6 for white, in accordance with ASTM D4214.

##### Loss of Adhesion: Loss of 10 percent due to cracking, checking or peeling, or failure to adhere to bare metal.

##### Gloss Retention: 50 percent or less in accordance with ASTM D523.

##### Salt Spray, Accelerated: At least 4,000 hours in accordance with ASTM B117.

##### Humidity Testing, Accelerated: At least 4,000 hours in accordance with ASTM D2247.

#### Warranty Coverage: In accordance with AAMA 611 Class 1 anodized aluminum finish requirements.

##### Loss of Adhesion: Resists cracking, crazing, flaking, and blistering when forming and welding completed prior to finishing; post forming or welding voids warranty.

##### Fading - Loss of Color Retention: Loss of 5 Delta E units (Hunter) or less, in accordance with ASTM D2244.

##### Chalking, Chalky White Powder on Panel Surface: Chalking at No. 8 or less in accordance with ASTM D4214.

##### Salt Spray, Accelerated: At least 3,000 hours in accordance with ASTM B117.

#  - PRODUCTS

## MANUFACTURERS

### Dri-Design – Aluminum Metal Plate Wall Panels System.

#### Address: 12480 Superior Court, Holland, Michigan 49424.

#### Mailing Address: P.O. Box 1286, Holland, Michigan 49422.

#### Phone: (616) 355-2970; Website: www.dri-design.com.

Specifier Note: Edit the following Performance Requirements in compliance with project requirements.

## PERFORMANCE REQUIREMENTS

### Metal Plate Wall Panel Assemblies: Comply with performance requirements without failure due to defective manufacturing, fabrication, installation, or other construction defects.

### Design, fabricate, and erect a dry joint, pressure equalized rainscreen aluminum wall panel system without use of sealants, gaskets, or butyl tape, tested as installed in compliance with AAMA 508, and as follows:

#### Cyclic Static Air Pressure Differential: Pass cycled pressure loading at 25 psf in 100 three-second cycles in accordance with ASTM E1233/E1233M.

#### Air Infiltration: Pass when tested at 1.57 psf (25 mph) in accordance with ASTM E283/E283M.

#### Water Penetration:

##### Static: Pass water penetration test under 6.24 psf positive static air pressure difference for at least 15 minutes with 5 gallons per sf per hour of water applied in accordance with ASTM E331.

##### Dynamic: Pass water penetration test under 6.24 psf dynamic pressure difference for at least 15 minutes with 5 gallons per sf per hour of water applied in accordance with AAMA 501.1.

#### Structural: Provide systems tested in accordance with ASTM E330/E330M and certified to be without permanent deformation or failure of structural members.

### High Velocity Hurricane Zone (HVHZ): Comply with ASTM E8/E8M test methods and performance requirements of Florida Building Code and Miami-Dade County test protocols TAS-202 and TAS-203 for HVHZ with at least plus 61 psf to minus 80 psf design pressure rating.

#### Application: For aluminum plate thickness of at least 0.080 inch, 12 gauge.

Specifier Note: Edit the following list of materials; provide information in compliance with project requirements.

Contact Dri-Design for other metals that are available, such as Titanium, Rimex Metals (www.rimexmetals.com), and Rigidized Metals (www.rigidized.com).

## MATERIALS

### Aluminum Plate: Alloy and temper as recommended by manufacturer for application and in compliance with manufacturers design requirements.

#### Aluminum Material: Tension-leveled, **[flouropolymer PVDF painted finish, 3003-H14 manganese alloy]** or **[anodized finish, 5005-AQ manganese alloy]**.

#### Thickness: 12 gauge, 0.080 inch, minimum.

#### Weight: Less than 2 lbs. per sf.

#### Finish: **[Two-Coat Fluoropolymer] [Three-Coat Fluoropolymer] [Four-Coat Fluoropolymer] [Two-Coat Mica Fluoropolymer] [Clear Anodized Finish]** or **[Color Anodized Finish]**.

### Panel Depth: 1-1/4 inch, nominal.

Specifier Note: Refer to Design Guide on Dri-Design website for additional information (www.dri-design.com).

### Panel Size: As indicated on Drawings.

Specifier Note: Panel joints are typically 1/2 inch wide, and widths of 1/8 inch to 1 inch are available, contact Dri-Design representative for specific information.

### Panel Joints: As indicated on Drawings.

## FABRICATION

### Fabricate and finish wall panels within manufacturer’s facilities and fulfill indicated performance requirements demonstrated by laboratory testing.

#### Comply with indicated profiles and with dimensional and structural requirements.

### Provide post-finishing of panels, paint aluminum wall panels only after completion of panel fabrication and ensure exposed edges are coated.

### Provide post anodizing of panels, anodize aluminum wall panels only after completion of panel fabrication and ensure exposed edges are anodic coated without crazing of surface at formed edges.

## FINISHES

### Comply with NAAMM's - Metal Finishes Manual for Architectural and Metal Products, for recommendations and classification designation for finishes.

Specifier Note: Edit the following types of AAMA 2605 – PVDF aluminum finishes in compliance with project requirements.

### Superior Performance Organic Coating System: AAMA 2605 multiple coat, thermally cured polyvinylidene fluoride (PVDF) resin system.

#### Two-Coat Fluoropolymer: AAMA 2605, fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pre-treat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' installation instructions.

#### Three-Coat Fluoropolymer: AAMA 2605, fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pre-treat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' installation instructions.

#### Two-Coat Mica Fluoropolymer: AAMA 2605, fluoropolymer finish with suspended mica flakes containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pre-treat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' installation instructions.

#### Four-Coat Fluoropolymer: AAMA 2605, fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat and clear coats. Prepare, pre-treat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' installation instructions.

Specifier Note: Edit the following types of AAMA 611 color or clear anodized finishes in compliance with project requirements.

### Color Anodized Finish: AAMA 611, Architectural Class I, color anodized coating of 0.0007 inch (0.7 mils) minimum thickness.

#### Color: **[Champagne] [Light bronze] [Medium bronze] [Dark bronze] [Extra dark bronze] [Black] [Copper] [Bordeaux]** or **[\_\_\_\_\_]**.

### Clear Anodized Finish: AAMA 611, Architectural Class I, clear anodized coating of 0.0007 inch (0.7 mils) minimum thickness.

### Field Touch-Up Materials: As recommended by coating manufacturer for field application.

## ACCESSORIES

### Metal Plate Wall Panel Accessories: Provide components required for a complete metal plate wall panel assembly including trim, copings, fascia, mullions, sills, corner units, flashings, and similar items. Match material and finish of panels unless otherwise indicated.

### Provide integral drainage system and manufactures standard extrusions at termination of dissimilar materials.

### Flashing and Trim: Match material, finish, and color of adjacent wall panels.

#### Sheet Aluminum: At least 18 gauge, 0.040 inch thick.

#### See Section 07 6200 for additional information.

### Panel Fasteners: Designed to withstand design loads, with at least 7/16 inch diameter head and neoprene washer.

#### Aluminum Wall Panel Material: Provide stainless steel fasteners, or coated fastener approved by panel manufacturer or project wall consultant.

Specifier Note: Verify that panel substrates are at least 5/8 inch thick exterior plywood, if not, select from following sub-girts in compliance with project requirements, edit as necessary.

### Sub-Girts: Galvanized, provide size and gauge in accordance with project requirements.

#### Furring Channel: Provide Hat, C, U or Z type as recommended by manufacturer.

#### Flat Strap: Steel sheet at least 14 gauge, 0.0747 inch thick.

#### See Section 05 4000 for additional information.

### Substrate Wall Sheathing: Plywood, PS 1, Grade C-D, Exposure I, at least 5/8 inch thick.

#### Refer to Drawings and see Section 06 1000 for additional information.

### Weather Barriers: Provide climate specific weather barrier with performance characteristics for air penetration, water vapor transmission, and water penetration resistance.

#### See Section 07 2500 for additional information.

Specifier Note: Dri-Design’s wall panels do not use sealants as part of rainscreen system, but when sealants are required adjacent to panel materials as specified within this section, comply with the following:

Provide sealants in compliance with metal panel manufacturer’s recommendations for physical properties such as adhesion, flexibility, weatherability, water-resistance, chemical resistance, non-corrosive, non-staining, and non-sagging.

Edit following paragraph as necessary.

### Sealants: As recommended by metal panel manufacturer for openings within wall panels and perimeter conditions.

#### See Section 07 9200 for additional information.

#  - EXECUTION

## EXAMINATION

### Examine substrates, and Work areas and conditions with Installer present for compliance with requirements for installation tolerances, wall panel supports, and other conditions affecting performance of this Work.

### Examine wall framing to verify that girts, angles, channels, studs, and other structural wall panel support members and anchorage have been installed within alignment tolerances required by wall panel manufacturer.

### Verify that weather barrier has been installed over sheathing or substrate to prevent air infiltration or water penetration.

### Examine rough-in for components and systems penetrating wall panels to coordinate actual penetration locations relative to wall panel joint locations prior to installation.

### Proceed with installation only after unsatisfactory conditions have been corrected.

## PREPARATION

### Miscellaneous Framing: Install sub girt, base angles, sills, furring, and other wall panel support members and provide anchorage in accordance with ASTM C754 for gypsum panel type substrates and panel manufacturer’s installation instructions.

Specifier Note: Edit the following in compliance with project requirements.

## INSTALLATION

### Install wall panels in accordance with manufacturer's installation instructions, including pressure equalized rainscreen installation method and installation guidelines.

#### Wall panels consist of single sheets of metal formed with interlocking gutter and drainage system integral to the panel with single horizontal attachment for dry-joint rainscreen assembly.

#### Use of secondary drainage channels, brackets, support pins, joint sealants or gaskets to manage the drainage of wall panel system is not permitted.

#### Attach wall panels using progressive interlocking method, engaging bottom of panel in top of previous panel working bottom up, and left to right.

#### Install wall panels with single top attachment in pre-punched holes to allow individual panels to move due to thermal expansion.

#### Do not compromise internal gutter.

### Install wall panels for orientation, sizes, and locations as indicated on Drawings.

### Install wall panels with proper anchorage and other components for this Work securely in place.

### Install wall panels with provisions for thermal and structural movement.

### Install shims to plumb substrates as necessary for installation of wall panels.

### Install weather-tight seals at perimeter of wall panel openings.

#### Test for proper adhesion on small unexposed area of solid surfacing prior to use.

#### See Section 07 9200 for additional information.

### Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA - Architectural Sheet Metal Manual.

#### Provide concealed fasteners where possible, and set units true to line and level as indicated.

#### Install work with laps, joints, and seams that will be permanently watertight and weather resistant.

#### Install flashing and trim as wall panel Work proceeds.

### Install weather-tight escutcheons for pipe and conduit penetrating exterior walls.

### Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action as recommended by wall panel manufacturer.

### Install attachment system to support wall panels and with provisions to provide a complete weather tight wall system, including sub girts, extrusions, flashings and trim.

#### Include attachment to supports and trims at locations using dissimilar materials.

#### Do not apply sealants to joints, unless noted otherwise on Drawings or Shop Drawings.

#### Install starter extrusion at base course and at cut panel locations.

### Install accessories with positive anchorage to building and weather-tight mounting and provisions for thermal expansion, and coordinate installation with flashings and other components.

#### Install components required for a complete wall panel assembly including trim, copings, flashings and other accessory items.

### Weather Barrier: Install weather barrier behind wall panels and over substrate in accordance with requirements, and see Section 07 2500 for additional information.

## TOLERANCES

### Shim and align wall panel units with installed tolerances of 1/4 inch in 20 feet, non-cumulative, on level, plumb, and location lines as indicated.

## FIELD QUALITY CONTROL

Specifier Note: Edit following paragraph to identify who shall perform tests and inspections in compliance with project requirements.

### Testing Agency: **[Owner will engage]** or **[Engage]** a qualified independent testing agency to perform field tests and inspections.

Specifier Note: Edit following paragraph to verify wall panel system's resistance to water penetration, and coordinate with MOCK-UPS article requirements in PART 1.

### Water-Spray Test: After installation and in coordination with mock-up requirements, test area of assembly **[shown on Drawings] [as directed by Architect]** or **[<Insert area>]** for water penetration in accordance with AAMA 501.2.

## CLEANING

### Upon completion of wall panel installation, clean finished surfaces as recommended by panel manufacturer.

### Upon completion of wall panel installation, clear weep holes and drainage channels of obstructions and dirt.

## PROTECTION

### Protect installed products from damage during subsequent construction.

### Provide protection of wall panels as necessary due to cleaning of adjacent materials with chemicals that may harm wall panel finish.

### Replace wall panels damaged or deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION