

STANDING-SEAM METAL ROOF PANELS

- PART 1 - GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions Specification Sections, apply to this Section.
1.2 SUMMARY
A. Section includes standing-seam metal roof panels.
1.3 PREINSTALLATION MEETINGS
A. Preinstallation Conference: Conduct conference at project location.
1. Meet with Owner, Architect, Owner's insurer if applicable, metal panel installer, metal panel manufacturer's representative, structural-support installer, and installers whose work interfaces with or affects metal panels, including installers of roof accessories and roof-mounted equipment.
2. Review and finalize construction schedule and verify availability of materials, installer's personnel, equipment, and facilities needed to make progress and avoid delays.
3. Review methods and procedures related to metal panel installation, including manufacturer's written instructions.
4. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.
5. Review structural loading limitations of deck and purlins during and after roofing.
6. Review flashings, special details, drainage, penetrations, equipment curbs, and condition of other construction that affect metal panels.
7. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.
8. Review temporary protection requirements for metal panel systems during and after installation.
9. Review procedures for repair of metal panels damaged after installation.
10. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.
1.4 ACTION SUBMITTALS
A. Product Data: For each type of product.
1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.
B. Shop Drawings:
1. Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
2. Accessories: Include details of the flashing, trim, and anchorage systems, at a scale of not less than 3/8 inch per 12 inches (1:5).
C. Calculations:
1. Include calculations with registered engineer seal, verifying roof panel and attachment method resist wind pressures imposed on it pursuant to applicable building codes.
D. Samples for Initial Selection: For each type of metal panel indicated with factory-applied color finishes.
1. Include similar samples of trim and accessories involving color selection.
E. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.
1. Metal Panels: 12 inches (305 mm) long by actual panel width. Include clips, fasteners, closures, and other metal panel accessories.
1.5 INFORMATIONAL SUBMITTALS
A. Qualification Data: For Manufacturer and Installer.
B. Product Test Reports: For each product, for tests performed by a qualified testing agency.
C. Field quality-control reports.
D. Sample Warranties: For special warranties.
1.6 CLOSEOUT SUBMITTALS
A. Maintenance Data: For metal panels to include in maintenance manuals.
1.7 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in architectural sheet metal products.
B. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
1.8 DELIVERY, STORAGE, AND HANDLING
A. Deliver components, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.
B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.
C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.
D. Retain strippable protective covering on metal panels until installation. Remove as panels are being installed. Verify film is not left on installed panels.
1.9 FIELD CONDITIONS
A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal panels to be performed according to manufacturers' written instructions and warranty requirements.
1.10 COORDINATION
A. Coordinate sizes and locations of roof curbs, equipment supports, and roof penetrations with actual equipment provided.
B. Coordinate metal panel installation with rain drainage work, flashing, trim, construction of soffits, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.
1.11 WARRANTY
A. Special Galvalume Substrate Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
a. Structural failures including rupturing, or perforating.
b. Deterioration of metals and other materials beyond normal weathering.
2. Warranty Period: 20 years and 6 months from date of Substantial Completion.
B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
c. Cracking, chipping, peeling, or failure of paint to adhere to bare metal.
2. Finish Warranty Period: 20 years from date of Substantial Completion.
C. Special Water-tightness Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace standing-seam metal roof panel assemblies that fail to remain watertight, including leaks, within specified warranty period.
1. Warranty Period: 20 years from date of Substantial Completion.
2. Shop drawings must be provided to, reviewed, and approved by panel manufacturer prior to panel system installation.
3. Inspections by panel system manufacturer technical representative are required. Perform the inspection when underlayment and flashing are in place and second inspection when the roof is complete.
D. Special Installer Warranty: Furnish a written warranty signed by the Panel Applicator guaranteeing materials and workmanship for water-tightness of the roofing system, flashings, penetrations, and against all leaks.
1. Warranty Period: Two years from date of Substantial Completion.

- PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E 1592 and E 1880.
1. Wind Loads: As indicated on Drawings.
2. Other Design Loads: As indicated on Drawings.
3. Deflection Limits: For wind loads, no more than 1/180.
B. Air Infiltration: Air leakage of not more than 0.05 cfm/sq. ft. (0.3 L/s per sq. m) when tested according to ASTM E 1880 and ASTM E 283.
1. Test-Pressure Difference: 1.57 psi (107 Pa).
C. Water Penetration under Static Pressure: No water penetration when tested according to ASTM E 1646 and ASTM E 1880.
1. Test-Pressure Difference: 15 lb/sq. ft. (718 Pa).
D. Hydrostatic Head Resistance: No water penetration when tested according to ASTM E2140.
E. Wind-Uplift Resistance: Provide metal roof panel assemblies that comply with UL 580 for wind-uplift resistance and UL 950 for wind-bracing.
F. Global Testing: Provide metal roof panels and component materials that comply with requirements in FM Global 4471 as part of a panel roofing system and that are listed in FM Global's "Approval Guide" for fire-resistant noncombustible construction, as applicable. Identify materials with FM Global listings.
Fire/Windstorm Classification: Class 1A-120.
1. Resistance: SH.
2. Wind Resistance: SH.
G. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by providing buckling, opening of joints, over-stressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
1. Temperature Change (Range): 180 deg F (100 deg C), material surfaces.

STANDING-SEAM METAL ROOF PANELS (CONT.)

- 2.2 STANDING-SEAM METAL ROOF PANELS
A. General: Provide factory-formed metal roof panels designed to be installed by lapping and interlocking the side edges of adjacent panels with joint type indicated and mechanically attaching panels to supports using concealed clips in side laps. Include clips, cleats, pressure plates, and accessories required for weathertight installation.
1. Steel Panel Systems: Unless more stringent requirements are indicated, comply with ASTM E 1514.
2. Aluminum Panel Systems: Unless more stringent requirements are indicated, comply with ASTM E 1537.
B. Vertical-Rib, Seamed-Joint, Standing-Seam Metal Roof Panels: Formed with vertical ribs at panel edges and a flat pan between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of panels, engaging opposite edge of adjacent panels, and mechanically seaming panels together.
1. Basis-of-Design Product: Subject to compliance with requirements, provide Berridge Manufacturing Company; Double-Lock Zee-Lock (180s Seam) or comparable product by one of the following:
a. AEP Span; A BlueScope Steel Company.
b. CENTRA Architectural Systems.
c. Firestone Building Products.
d. Firestone Metal Products, LLC.
e. Hexaplan Steel Buildings, Inc.
f. Garland Company, Inc. (The).
g. METCO.
h. Merchant & Evans Inc.
2. Metallic-Coated Steel Sheet: Aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 (Class AZM150) coating designation; structural quality. Prepared by the coil-coating process to comply with ASTM A 755/A 755M.
a. Nominal Thickness: 0.024 inch (0.61 mm)
b. Exterior Finish: Two-coat fluoropolymer
c. Painted materials shall have a removable plastic film to protect the paint during roll forming, shipping and handling.
d. Color: As selected by architect from manufacturer's full range.
3. Clips: Continuous Zee-rib to accommodate thermal movement.
a. Material: 0.024-inch (0.61-mm) nominal thickness, zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet.
4. Joint Type: Double folded.
5. Panel Coverage: 16 inches (406 mm).
6. Panel Height: 16 inches (406 mm).
2.3 UNDERLAYMENT MATERIALS
A. Self-Adhering, High-Temperature Underlayment: Provide self-adhering, cold-applied, sheet underlayment, a minimum of 40 mils (1.02 mm) thick, consisting of slip-resistant, polyethylene-film top surface laminated to a layer of butyl or SBS-modified asphalt adhesive, with release-paper backing. Provide primer as recommended by underlayment manufacturer.
1. Thermal Stability: Stable after testing at 240 deg F (116 deg C); ASTM D 1970.
2. Low-Temperature Flexibility: Passes after testing at minus 20 deg F (29 deg C); ASTM D 1970.
3. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. Mid-States Asphalt Quick Stick HT Pro
b. Polyglass Polystick MTS
c. Soprema Lostbond Shield HT
d. Tamko TW Underlayment or TW Metal & Tile Underlayment
e. Carlyle W/P 300 HT.
B. Felt Underlayment: ASTM D 226/D 22M, Type II (No. 30), asphalt-saturated organic felts.
2.4 MISCELLANEOUS MATERIALS
A. Miscellaneous Metal Subframing and Furring: ASTM C 645, cold-formed, metallic-coated steel sheet, ASTM A 653/A 653M, G90 (275 hot-dip galvanized) coating designation or ASTM A 792/A 792M, Class AZ50 (Class AZM150) coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fascias, mullions, sills, corner units, clips, flashings, sealants, gaskets, filters, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
1. Closures: Provide closures at eaves and ridges, fabricated of some metal as metal panels.
2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
C. Flashing and Trim: Provide flashing and trim formed from some material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, frames, openings, and fillets. Finish flashing and trim to match with some finish system as adjacent metal panels.
D. Gutters: Formed from some material as roof panels, complete with end pieces, hangers, tubes, and other special pieces as required. Fabricate in minimum 96-inch (2400-mm) long spans of size and metal thickness according to SMACNA's "Architectural Sheet Metal Manual." Fabricate gutter supports spaced a maximum of 36 inches (914 mm) o.c., fabricated from some metal as metal panels. Provide wire ball strainers of compatible metal at outlets. Finish gutters to match metal panels [roof fascia and rake trim].
E. Downspouts: Formed from some material as roof panels. Fabricate in 10-foot (3048-mm) long sections, complete with formed elbows and offsets, of size and metal thickness according to SMACNA's "Architectural Sheet Metal Manual." Finish downspouts to match gutters.
F. Roof Curbs: Fabricated from same material as roof panels, 0.024 inch (0.61 mm) nominal thickness; galvalume or stainless steel; supply in integral full-length bracket for curbs wider than 24 inches (610 mm) supported by a structural metal deck. Fabricate curb flashing from 0.024 inch (0.61 mm) On open framing, provide curb underlayment and about roof curb per roofing manufacturer's requirements. Maintain a minimum of 1/2 of roofing panel width on each side of roof curb, and start panels a maximum of 9 inches (229 mm) up slope of roof curb, flashing roofing panels to roof curb per roofing manufacturer's requirements. Fabricate curb and subframing to withstand indicated loads of size and height of roof equipment. Where required insulate roof curbs with rigid insulation.
G. Panel Fasteners: Zinc-coated steel, stainless steel, zinc steel head, or nylon capped steel, type and size as approved for the applicable loading requirements.
H. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, nonstaining, and do not damage panel finishes.
1. Joint Sealant: Provide sealant of type, grade, class, and use classifications required to seal joints of metal panels. Sealants shall be compatible with panel materials and as recommended in writing by metal panel manufacturer.
FABRICATION
A. General: Fabricate and finish metal panels and accessories of the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
B. Site Fabrication: Subject to compliance with requirements of this Section, metal panels may be fabricated on-site using factory set, non-adjustable, portable roll-forming equipment if panels are of same profile and warranted by manufacturer to be equal to factory-formed panels. Fabricate according to equipment manufacturer's written instructions and to comply with details shown. Factory machine to have current U.L. 90 certification attached to machine.
C. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.
D. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.
1. Form exposed sheet metal levels and conditions that are without excessive oil conning, buckling, and tool marks and that are true to line and level as specified, with exposed edges folded back to form hems.
2. Sealed Joints: Form nonexpansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.
3. Fabricate cleats and attachment devices from some material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.
a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal panel manufacturer for application, but not less than thickness of metal being secured.
2.6 FINISHES
A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in some piece are unacceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
C. Steel Panels and Accessories:
1. Two-Coat Fluoropolymer: AAMA 621, Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat applied by panel manufacturer on a continuous coil coating line, with a top side dry film thickness of 0.75±0.05 mil (0.0013 mm) over 0.2±0.05 mil (0.0013 mm) primer coat, to provide a total dry film thickness of 0.95±0.10 mil (0.024 mm). Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

STANDING-SEAM METAL ROOF PANELS (CONT.)

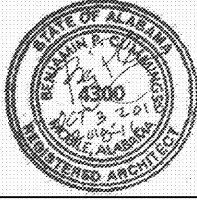
- 2. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish consisting of prime coat and wash coat with a minimum total dry film thickness of 0.35 mil (0.009 mm).
PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine substrates, areas, and conditions, with installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work.
1. Examine primary and secondary roof framing to verify that rafters, purlins, angles, channels, and other structural panel support members and anchorages have been installed within alignment tolerances required by metal roof panel manufacturer.
2. Examine solid roof sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal roof panel manufacturer.
a. Verify that air- or water-resistant barriers have been installed over sheathing or blocking substrate to prevent air infiltration or water penetration.
B. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.
C. Proceed with installation only after unsatisfactory conditions have been corrected.
3.2 PREPARATION
A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal panel manufacturer's written recommendations.
3.3 UNDERLAYMENT INSTALLATION
A. Self-Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply at locations indicated below, wrinkle free, in single fashion to shed water, and with end laps of not less than 6 inches (152 mm) staggered 24 inches (610 mm) between courses. Overlap side edges not less than 36 inches (914 mm). Roll lags with roller. Cover underlayment within 14 days or as directed by the underlayment product manufacturer.
1. Apply over the entire roof surface.
B. Flashings: Install flashings to cover underlayment.
3.4 METAL PANEL INSTALLATION
A. General: Install metal panels according to manufacturer's written instructions in orientation, sizes, or locations indicated. Install panels perpendicular to supports unless otherwise indicated. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.
1. Shim or otherwise plumb substrates receiving metal panels to be level to 1/4 inch in 6 feet (6 mm in 6.1 m).
2. Flash and seal metal panels at perimeter of all openings. Do not begin installation until all water-resistant barriers and flashings that will be concealed by metal panels are installed.
3. Locate and space fastenings in uniform vertical and horizontal alignment.
4. Install flashing and trim as metal panel work proceeds.
5. Panels should be continuous without end laps.
6. Align bottoms of metal panels and fasten.
7. Provide weathertight escutcheons for pipe- or conduit-penetrating panels.
B. Fasteners:
1. Steel Panels: Use stainless-steel fasteners for surfaces exposed to the exterior; use galvanized-steel fasteners for surfaces exposed to the interior.
C. Anchor Clips: Anchor metal roof panels and other components of the Work securely in place, using manufacturer's approved fasteners according to manufacturer's written instructions.
D. Metal Protection: Where required for metals, such as copper or aluminum, substrates, protect against galvanic action by use of compatible metal fasteners and metal panel manufacturer.
E. Standing-Seam Metal Roof Panels: Install standing-seam metal roof panels to supports with concealed clips at each standing-seam joint location, spaced and with fasteners recommended in writing by manufacturer.
1. All clips to supports with self-tapping fasteners.
2. Install pressure plates, if required, at locations indicated in manufacturer's written installation instructions.
3. Seal standing-seam joints with manufacturer-approved, motorized seamer tool so clips, metal roof panels, and pressure plates are completely engaged.
4. Necessary installation accessories with positive anchorage to building and weathertight fastenings and provisions for thermal expansion. Coordinate installation with flashings and other components.
5. Install components required for a complete metal panel system including trim, copings, corners, seamers, flashings, sealants, gaskets, filters, and similar items. Provide types indicated by metal roof panel manufacturer; or, if not indicated, types recommended by metal roof panel manufacturer.
6. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "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.
1. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and achieve waterproof and weather-resistant performance.
2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim.
H. Gutters: Join sections with riveted and soldered or lapped and sealed joints. Attach gutters to eave with gutter hangers spaced not more than 36 inches (914 mm) o.c. using manufacturer's standard fasteners. Provide end closures and seal watertight with sealant. Provide for thermal expansion.
I. Downspouts: Join sections with telescoping joints. Provide fasteners designed to hold downspouts securely 1 inch (25 mm) away from walls; locate fasteners at top and bottom and at approximately 60 inches (1524 mm) o.c. in between.
1. Provide elbows at base of downspouts to direct water away from building.
2. Or, connect downspouts to underground drainage system indicated on civil drawings.
J. Roof Curbs: Install flashing around bases where they meet metal roof panels.
K. Pipe Flashing: Form flashing around pipe penetration and metal roof panels. Fasten and seal to metal roof panels as recommended by manufacturer.
3.5 ERECTION TOLERANCES
A. Installation Tolerances: Shim and align metal panel units within installed tolerance of 1/4 inch in 20 feet (6 mm in 6 m) on slope and location lines as indicated and within 1/8-inch (3-mm) offset of adjoining faces and of alignment of matching profiles.
3.6 FIELD QUALITY CONTROL
A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect metal roof panel installation, including accessories. Report results in writing.
B. Remove and replace applications of metal roof panels where tests and inspections indicate that they do not comply with specified requirements.
C. Additional tests and inspections, at Contractor's expense, are performed to determine compliance of replaced or additional work with specified requirements.
D. Prepare test and inspection reports.
3.7 CLEANING AND PROTECTION
A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
B. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.
END OF SECTION

JOINT SEALERS

- PART 1 GENERAL
1.1 QUALITY ASSURANCE
A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
PART 2 PRODUCTS
2.1 MATERIALS
A. Exterior Joints in Vertical Surfaces.
B. Exterior Joints in Horizontal Surfaces, Urethane:
1. Materials: Self-leveling urethane sealant, ASTM C 920.
C. Exterior Paving Joint Fillers, Bituminous:
1. Materials: Bituminous fiber.
D. Interior Joints, Limited Movement, Acrylic:
1. Materials: Acrylic-emulsion, ASTM C 834.
E. Interior Joints, Sanitary Silicone:
1. Materials: One-part mildew-resistant silicone sealant, ASTM C 920.
F. Glazing and kitchen applications
1. General Electric silicone construction 1200 sealant, 1 gal.
PART 3 EXECUTION
A. Do not proceed with installation of joint sealants until following conditions are met:
1. When ambient and substrate temperatures are conditions are within limits permitted by joint sealant manufacturer, or are within 4.4 C (40 F).
2. When joint substrates are dry.
3. Do not proceed with installation of joint sealants where joint widths are less than those allowed by joint sealant manufacturer for applications indicated.
B. Do not proceed with installation of joint sealants until contaminants and other materials capable of interfering with adhesion are removed from joint substrates. Examine substrate; report unsatisfactory conditions in writing. Begin work upon acceptance of substrate.
C. Do not use sealants not specified or selected from manufacturer's standards.
D. Apply materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections. Clean overprime joints, and install bond breakers, backer rods and sealant backer rods as recommended by manufacturers.
E. Depth of sealant: Seal width up to 1/2 inch wide; depth shall equal 1/2 width for joint over 1/2 inch wide.
F. For application of sealants, follow requirements of ASTM C1193 unless specified otherwise.
G. Avoid dropping or smearing compound on adjacent surfaces.
H. Fill joints solidly with compound and finish compound smooth.
I. Cure and protect sealants as directed by manufacturers. Replace or restore damaged sealants. Clean adjacent surfaces to remove spillover.
J. After all equipment and wall materials have been installed, all joints to walls and bases shall be sealed with silicone sealant.
END OF SECTION



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Table with 2 columns: MARK, DATE

SHEET NAME
ARCHITECTURAL SPECIFICATIONS

PROJECT NO. 2018-16
DATE OCTOBER 3, 2018
SHEET NO.