

Alternate #2 Install Siding on all existing cinder-block walls not already covered by metal wall panels matching existing colors as close as possible. Contractors to field verify all measurements.

SIDING

PART I - GENERAL

1.1 RELATED DOCUMENTS

A. The general provisions of the Contract, including General and Supplementary Conditions apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Siding: 26 gauge painted galvanized steel panels with Kynar finish.
2. Battens: 2"x4" wood nailers anchored with concrete anchors horizontally on 2-ft. centers around entire field and perimeter of building.
3. Flashings: 26 gauge painted galvanized steel with Kynar finish.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Samples for Initial Selection: For siding including related accessories.
- C. Samples for Verification: For each type, color, texture, and pattern required.
 1. 12-inch- long-by-actual-width Sample of siding
 2. 12-inch- long-by-actual-width Samples of trim and accessories.

1.4 INFORMATIONAL SUBMITTALS

A. Warranty: Sample of special warranty.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of siding and related accessories to include in maintenance manuals.

1.6 MATERIALS MAINTENANCE SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 1. Furnish full lengths of siding including related accessories, in a quantity equal to 2 percent of amount installed.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store materials in a dry, well-ventilated, weathertight place.

1.8 COORDINATION

A. Coordinate installation with flashings and other adjoining construction to ensure proper sequencing.

1.9 WARRANTY

- A. Special Warranty: Standard form in which manufacturer agrees to repair or replace siding that fail(s) in materials or workmanship within specified warranty period.
 1. Failures include, but are not limited to, the following:
 - a. Structural failures including cracking, deforming, and fading.
 - b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 2. Fading is defined as loss of color, after cleaning with product recommended by manufacturer, of more than 4 Hunter color-difference units as measured according to ASTM D 2244.
 3. Warranty Period:
 - a. 20 years from date of Substantial Completion for finish on all products.
 - b. 5 years Weathertight Workmanship Warranty from date of Substantial Completion including but not limited to sealants.

PART 2 - PRODUCTS

2.1 STEEL SIDING

- A. McElroy Metal 26 gauge, Multi-Rib exposed fastener wall panel or approved equal.
- B. Colors for Steel Siding: Match existing wall panel colors.

C. Finish for Steel Siding: Kynar 500 coating

2.2 ACCESSORIES

A. Colors for Accessories: Match existing wall panel colors.

B. Flashing: 26 gauge painted galvanized steel with Kynar finish, installed at all window and door heads as needed for proper waterproofing.

1. Finish for Steel Flashing: Kynar 500 coating,

2. Color for Steel Flashing: Same color as existing siding.

C. Fasteners:

1. For fastening the metal, use 1 ¼ inch hex-head screws with EPDM washers to penetrate into 2x4 wood battens without penetrating completely through batten.

2. For fastening 2x4 battens, use minimum of 3-inch concrete anchors on 24" centers to securely mount battens to cinder-block wall.

D. Battens: 2"x4"x1 ½" thick battens to be mounted in horizontal pattern on 24" centers from top to bottom of wall and all perimeter.

E. Exterior exhaust louvers for existing fan.

1. Exhaust louvers are to be made with heavy duty, welded steel box housing with a powder coated finish and metal exhaust louvers.

2. The louvers are to open automatically when the fan starts up and close when the fan stops.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of siding and related accessories.

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

3.2 PREPARATION

A. Clean substrates of projections and substances detrimental to application.

3.3 INSTALLATION

A. General: Comply with siding manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.

1. Do not install damaged components.

B. Install steel siding and related accessories.

1. Install fasteners no more than 24 inches on center.

C. Install sealants to produce a weathertight installation.

D. Install exhaust louvers according to manufacturer's specifications.

3.4 ADJUSTING AND CLEANING

A. Remove damaged, improperly installed, or otherwise defective materials and replace with new materials complying with specified requirements.

B. Clean finished surfaces according to manufacturer's written instructions and maintain in a clean condition during construction.

END OF SECTION

Alternate #3 Remove existing gutters & downspouts and replace with 6-inch, K-style, .032 gauge aluminum gutters and 3"x4", .032 gauge downspouts. Contractors are to field verify all measurements.

GUTTERS AND DOWNSPOUTS

PART I - GENERAL

1.1 RELATED DOCUMENTS

A. The general provisions of the Contract, including General and Supplementary Conditions apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Gutters: Seamless .032 gauge painted aluminum with a 20-year finish warranty.
2. Downspouts: 3"x4", 032 gauge painted aluminum with a 20-year finish warranty.
3. Accessories:
 - a. Preassembled aluminum hidden gutter hangers with max 24" on center.
 - b. Downspout straps, end caps, and box-corners are to be .032 gauge aluminum
 - c. Outlet tubes: 3"x4" aluminum

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Samples for Initial Selection: For gutters and downspouts including related accessories.
- C. Samples for Verification: For each type, color, texture, and pattern required.
 1. 12-inch- long-by-actual-width Sample of gutter and downspout
 2. Actual-size Samples of accessories.

1.4 INFORMATIONAL SUBMITTALS

A. Warranty: Sample of special warranty.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store materials in a dry, well-ventilated, weathertight place.

1.6 COORDINATION

A. Coordinate installation with flashings and other adjoining construction to ensure proper sequencing.

1.7 WARRANTY

- A. Special Warranty: Standard form in which manufacturer agrees to repair or replace gutters and downspouts that fail(s) in materials or workmanship within specified warranty period.
 1. Failures include, but are not limited to, the following:
 - a. Structural failures including cracking, deforming, and fading.
 - b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 2. Fading is defined as loss of color, after cleaning with product recommended by manufacturer, of more than 4 Hunter color-difference units as measured according to ASTM D 2244.
 3. Warranty Period:
 - A. 20 years from date of Substantial Completion for finish on all products.
 - B. 5 years Workmanship Warranty from Substantial Completion including but not limited to sealants.

PART 2 - PRODUCTS

2.1 GUTTERS AND DOWNSPOUTS

1. Gutters: Seamless .032 gauge painted aluminum with a 20-year finish warranty. Color to be selected by Owner.
2. Downspouts: 3"x4", 032 gauge painted aluminum with a 20-year finish warranty. Color to be selected by Owner.
3. Accessories:
 - a. Preassembled aluminum hidden gutter hangers with max 24" on center.
 - b. Downspout straps, end caps, and box-corners are to be .032 gauge aluminum
 - c. Outlet tubes: 3"x4" aluminum

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of siding and related accessories.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrates of projections and substances detrimental to application.

3.3 INSTALLATION

- A. General: Comply with gutter manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.
 - 1. Do not install damaged components.
- B. Install steel gutters, downspouts and related accessories.
 - 1. Install fasteners no more than 24 inches on center.
 - 2. Install expansion joints as need and still produce a weathertight installation.
- C. Install sealants to produce a weathertight installation.

3.4 ADJUSTING AND CLEANING

- A. Remove damaged, improperly installed, or otherwise defective materials and replace with new materials complying with specified requirements.
- B. Clean finished surfaces according to manufacturer's written instructions and maintain in a clean condition during construction.

END OF SECTION

TUCKPOINTING

PART I - GENERAL

1.1 RELATED DOCUMENTS

- A. The general provisions of the Contract, including General and Supplementary Conditions apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Requirements for tuck pointing of existing masonry

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Store materials in a dry, well-ventilated, weathertight place.

1.4 COORDINATION

- A. Coordinate installation with flashings and other adjoining construction to ensure proper sequencing.

1.5 WARRANTY

- A. Special Warranty: Standard form in which manufacturer agrees to repair or replace siding that fail(s) in materials or workmanship within specified warranty period.

- 1. Failures include, but are not limited to, the following:
 - a. Structural failures including cracking, deforming, and fading.
 - b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- 2. Fading is defined as loss of color, after cleaning with product recommended by manufacturer, of more than 4 Hunter color-difference units as measured according to ASTM D 2244.
- 3. Warranty Period:
 - a. 20 years from date of Substantial Completion for finish on all products.
 - b. 5 years Weathertight Workmanship Warranty from date of Substantial Completion including but not limited to sealants.

PART 2 - PRODUCTS

2.1 Tuckpointing Mortar

- A. As per appendix X3 of ASTM C270.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of mortar.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrates of projections and substances detrimental to application.

3.3 INSTALLATION

- A. Cut out of existing mortar joints
 - 1. Cut out existing mortar joints (both bed and head joints) and remove by means of a tooting chisel or a special pointer's grinder, to a uniform depth of to 19 mm (3/4-inch), or until sound mortar is reached. Take care to not damage edges of existing masonry units to remain.
 - 2. Remove dust and debris from the joints by brushing, blowing with air or rinsing with water. Do not rinse when temperature is below freezing.

3.4 JOB CONDITIONS

- A. Protection: Protect newly pointed joints from rain, until pointed joints are sufficiently hard enough to prevent damage.
- B. Cold Weather Protection:
 - 1. Tuck pointing may be performed in freezing weather when methods of protection are utilized.
 - 2. Comply with applicable sections of "Recommended Practices for Cold Weather Construction" as published by International Masonry Industry All Weather Council.
 - 3. Existing surfaces at temperatures to prevent mortar from freezing or causing other damage to mortar.

3.3 INSTALLATION OF TUCK POINTING MORTAR

- A. Immediately prior to application of mortar, dampen joints to be tuck pointed. Prior to application of pointing mortar, allow masonry units to absorb surface water.
- B. Tightly pack mortar into joints in thin layers, approximately 6 mm (1/4-inch) thick maximum.
- C. Allow layer to become "thumbprint hard" before applying next layer.
- D. Pack final layer flush with surfaces of masonry units. When mortar becomes "thumbprint hard", tool joints.

3.4 TOOLING OF JOINTS

- A. Tool joints with a jointing tool to produce a smooth, compacted, concaved joint.
- B. Tool joints in patch work with a jointing tool to match the existing surrounding joints.

3.5 REPLACEMENT OF MASONRY UNITS

- A. Cut out mortar joints surrounding masonry units that are to be removed and replaced.
 - 1. Units removed may be broken and removed, providing surrounding units to remain are not damaged.
 - 2. Once the units are removed, carefully chisel out the old mortar and remove dust and debris.
 - 3. If units are located in exterior wythe of a cavity or veneer wall, exercise care to prevent debris falling into cavity.
- B. Dampen surfaces of the surrounding units before new units are placed.
 - 1. Allow existing masonry to absorb surface moisture prior to starting installation of the new replacement units.
 - 2. Butter contact surfaces of existing masonry and new replacement masonry units with mortar.
 - 3. Center replacement masonry units in opening and press into position.
 - 4. Remove excess mortar with a trowel.
 - 5. Point around replacement masonry units to ensure full head and bed joints.
 - 6. When mortar becomes "thumbprint hard", tool joints.

3.4 ADJUSTING AND CLEANING

- A. Clean exposed masonry surfaces on completion.
- B. Remove mortar droppings and other foreign substances from wall surfaces.
- C. First wet surfaces with clean water then wash down with a solution of soapless detergent specially prepared for cleaning brick.
- D. Brush with stiff fiber brushes while washing, and immediately thereafter hose down with clean water.
- E. Free clean surfaces from traces of detergent, foreign streaks or stains. Protect materials during cleaning operations including adjoining construction.
- F. Use of muratic acid for cleaning is prohibited.

END OF SECTION