

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section Includes:
 - 1. Solid vinyl siding.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
 - 1. For vinyl siding, include VSI's official certification logo printed on product data.
- B. Samples for Initial Selection: For siding soffit including related accessories.

1.04 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified vinyl siding Installer.
- B. Product Certificates: For each product to be used, from manufacturer.
- C. Warranty: Sample of special warranty.

1.05 CLOSEOUT SUBMITTALS

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

1.06 MAINTENANCE MATERIAL 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.

1.07 QUALITY ASSURANCE

- A. Labeling: Provide vinyl siding that is tested and labeled according to ASTM D 3679 by a qualified testing agency acceptable to authorities having jurisdiction.
- B. Vinyl Siding Installer Qualifications: A qualified installer who employs a VSI-Certified Installer on Project.
- C. Vinyl Siding Certification Program: Provide vinyl siding products that are listed in VSI's list of certified products.
- D. Source Limitations: Obtain siding soffit, including related accessories, from single source from single manufacturer.
- E. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.

1. Build mockup of typical wall area as shown on Drawings.
2. Build mockups for siding and soffit including accessories.
 - a. Size: 48 inches (1200 mm) long by 60 inches (1800 mm) high.
3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
4. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.08 DELIVERY, STORAGE, AND HANDLING

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

1.09 COORDINATION

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

1.10 WARRANTY

- A. Special Warranty: Standard form in which manufacturer agrees to repair or replace siding soffit 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: 25 years from date of Substantial Completion. Limited Warranty shall be non-prorated and transferable.

PART 2 - PRODUCTS

2.01 VINYL SIDING

- A. General: Integrally colored vinyl siding complying with ASTM D 3679, Class 2.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 2. Basis-of-Design Product:
 - a. Georgia-Pacific Corporation, Compass Vinyl Siding
- B. Horizontal Pattern: 8-inch exposure in double, 4-inch standard lap.
- C. Finish: Light Woodgrain Texture.
- D. Thickness: 0.044 inch (1.12 mm), minimum.
- E. Minimum Profile Depth (Butt Thickness): 5/8 inch (16 mm).
- F. Surface Burning Characteristics: Flame spread index of 20 maximum; smoke developed index of 300 maximum; when tested in accordance with ASTM E84.
- G. Horizontal Flammability, when tested in accordance with ASTM D635:
 1. Burn Distance: 0.79 inch (20 mm), maximum.
 2. Burn Time: Less than 5 seconds.

- H. Wind Resistance: Capable of withstanding minimum of 40 psf (1.9 kPa) negative pressure, when tested in accordance with ASTM D5206.

2.02 ACCESSORIES

- A. Siding Accessories, General: Provide starter strips, edge trim, outside and inside corner caps, and other items as recommended by siding manufacturer for building configuration.
1. Provide accessories made from same material as adjacent siding unless otherwise indicated.
 2. Standard Accessories:
 - a. Corner post: Standard width, 10 feet, 12 feet, and 20 feet lengths to eliminate seams when possible.
 - b. J-Channel: Standard width, 12 feet-6 inches length.
 - c. Undersill trim: $\frac{3}{4}$ " face, 12 feet, 6 inch length.
 - d. Dual undersill trim: $\frac{3}{4}$ " face, 12 feet 6 inches length.
 - e. 2-1/2 inch Metal Starter Strip. (No Color)
 - f. 2-1/4 inch Vinyl Starter Strip. (No Color)
 - g. Color: as selected by the Architect from the manufacturer's full color offering.
- B. Flashing: Provide stainless-steel flashing complying with Section 076200 "Sheet Metal Flashing and Trim" at window and door heads and where indicated.
- C. Fasteners:
1. For fastening to wood, use siding nails or ribbed bugle-head screws of sufficient length to penetrate a minimum of 1 inch (25 mm) into substrate. corrosion resistant 8d (2 1/2" x 0.131") common nailing minimum.
 2. For fastening to metal, use ribbed bugle-head screws of sufficient length to penetrate a minimum of 1/4 inch (6 mm), or three screw-threads, into substrate.
 3. For fastening vinyl, use hot-dip galvanized fasteners. Where fasteners will be exposed to view, use prefinished aluminum fasteners in color to match item being fastened.

PART 3 - EXECUTION

3.01 EXAMINATION

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

3.02 PREPARATION

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

3.03 INSTALLATION

- A. General: Comply with siding soffit manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.
1. Do not install damaged components.
- B. Wood framing provisions:
1. Nominal 2 inch by 4 inch (51 mm by 102 mm) wood framing selected for minimal shrinkage and complying with local building codes, including the use of water-resistive barriers or vapor barriers where required. Minimum 1-1/2 inches (38 mm) face and straight, true, of uniform dimensions and properly aligned.

- a. Install water-resistive barriers and claddings to dry surfaces.
 - b. Repair any punctures or tears in the water-resistive barrier prior to the installation of the siding.
 - c. Protect siding from other trades.
2. Center nails in elongated nailing slots without binding siding to allow for thermal movement.
- C. Install materials in strict accordance with manufacturer's installation instructions.
- D. Starting: Install a minimum 1/4 inch (6 mm) thick lath starter strip at the bottom course of the wall. Apply planks horizontally with minimum 1-1/4 inches (32 mm) wide laps at the top. The bottom edge of the first plank overlaps the starter strip.
- E. Allow space between both ends of siding panels and trim for thermal movement. Overlap horizontal panel ends one-half the width of factory pre-cut notches.
- F. Allow minimum vertical clearance between the edge of siding and any other material in strict accordance with the manufacturer's installation instructions.
- G. Align vertical joints of the planks over framing members.
- H. Maintain clearance between siding and adjacent finished grade.
- I. Locate splices at least one stud cavity away from window and door openings.
- J. Wind Resistance: Where a specified level of wind resistance is required Hardieplank lap siding is installed to framing members and secured with fasteners described in Table No. 2 in National Evaluation Service Report No. NER-405.
- K. Locate splices at least 12 inches (305 mm) away from window and door openings.
- L. Trim Installation:
 1. Install materials in strict accordance with manufacturer's installation instructions. Install flashing around all wall openings.
 2. Fasten through trim into structural framing or code complying sheathing. Fasteners must penetrate minimum 3/4 inch (19 mm) or full thickness of sheathing. Additional fasteners may be required to ensure adequate security.
 3. Place fasteners no closer than 3/4 inch (19 mm) and no further than 2 inches (51 mm) from side edge of trim board and no closer than 1 inch (25 mm) from end. Fasten maximum 16 inches (406 mm) on center.
 4. Maintain clearance between trim and adjacent finished grade.
 5. Trim inside corner with a single board trim both side of corner.
 6. Outside Corner Board Attach Trim on both sides of corner with 16 gage corrosion resistant finish nail 1/2 inch (13 mm) from edge spaced 16 inches (406 mm) apart, weather cut each end spaced minimum 12 inches (305 mm) apart.
 7. Allow 1/8 inch gap between trim and siding.
 8. Seal gap with high quality, paint-able caulk.
 9. Shim frieze board as required to align with corner trim.
 10. Fasten through overlapping boards. Do not nail between lap joints.
 11. Overlay siding with single board of outside corner board then align second corner board to outside edge of first corner board. Do not fasten HardieTrim boards to HardieTrim boards.
- M. Install vinyl siding and related accessories according to ASTM D 4756.
 1. Install fasteners for horizontal vinyl siding no more than 16 inches (400 mm) o.c.

- N. Install joint sealants as specified in Section 079200 "Joint Sealants" and to produce a weathertight installation.
- O. Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape or installing nonconductive spacers as recommended by manufacturer for this purpose.

3.04 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.
- C. Touch-up, repair or replace damaged products before Substantial Completion.
- D. At completion of work, remove debris caused by siding installation from project site.

END OF SECTION