

# SPECIFICATIONS FOR VINYL SIDING & ACCESSORIES

## PART I. GENERAL

### 1.01 SCOPE OF WORK

Furnish all necessary labor, material and equipment for complete installation of Vinyl Siding and related work as directed by the PHA/IHA.

### 1.02 REFERENCES

American Society for Testing and Materials (ASTM) D 3679, Standard Specification for Rigid Poly (vinyl chloride) (PVC) Siding.

- D 256 Test Methods for Impact Resistance of Plastics and Electrical Insulating Materials
- D 635 Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position
- D 638 Test Method for Tensile Properties of Plastic
- D 648 Test Method for Deflection Temperature of Plastic Under Flexural Load
- D 696 Test Method for Coefficient of Linear Thermal Expansion of Plastics
- D 1929 Test Method for Ignition Properties of Plastics
- D 2843 Test Method for Density of Smoke from the Burning or Decomposition of Plastics
- D 3679 Standard Specification for Rigid Poly Vinyl Chloride (PVC) Siding
- D 4226 Test Methods for Impact Resistance of Rigid Poly Chloride (PVC) Building Products
- E 84 Test Method for Surface Burning Characteristics of Building Materials

### 1.03 SUBMITTALS TO ORDERING AGENCY

- A. Submit samples of siding design, size and color for approval.
- B. Submit manufacturer's test reports and certifications as required by the PHA/IHA.

### 1.04 QUALITY ASSURANCE

- A. Bidder to certify that vinyl siding to be supplied meets or exceeds the conditions specified in Section 2.02 Material.
- B. Regulatory Compliance:

***NOTE: Insert manufacturer's report numbers in space provided.***

- 1. National Building Code - BOCA Research
- 2. Standard Building Code - SBCCI Compliance Report
- 3. Uniform Building Code - ICBO Evaluation Report

1.05 DELIVERY, STORAGE AND HANDLING

- A. Siding to be packed two squares per box. Each box to be clearly marked with the manufacturer's name, the siding style, color and identifying lot number.
- B. Prior to application, vinyl siding and accessories are to be stored in an area that is clean, dry and out of direct sunlight.
- C. Handle material in a manner to prevent damage. Do not allow siding carton to crease.

1.06 WARRANTY

Upon completion provide a written Fifty-Year, Transferable Limited Warranty.

**PART 2. PRODUCTS**

2.01 MATERIALS

- A. Vinyl siding shall conform to all the requirements established in ASTM Specification D3679-88, developed in cooperation with the industry and published by the American Society for Testing and Materials. Manufacturer shall maintain rigorous production quality control standards to assure that Vinyl Siding will perform as expected for its intended use.
- B. Typical Compound Properties - Vinyl siding is produced for Poly Vinyl Chloride (PVC) Compound meeting the requirements of ASTM D 3679 for compound class number 2 and 3 materials with the following manufacturing and product specifications:
- C. Additional Siding Styles
  - 1. Cedar Shakes & "straight Edge split .125" wall thickness. Manufacturers standard colors. Include J-channel in pricing.
  - 2. Add pricing for corner trim as required
  - 3. Half round Shingles.100 wall thickness

TEST CRITERIA

TYPICAL PROPERTIES

Impact Strength @ 73.4 F  
Impact Strength @ 32 F  
Tensile Strength  
Modules of Elasticity  
Deflection of Temperature

17.7 ft. lbf/in of notch (ASTM D 256) \*  
15.9 ft. lbf/in of notch (ASTM D 256) \*  
6100 psi (ASTM D 638) \*  
400,000 psi (ASTM D 790) \*  
162 F (ASTM D 648) \*

*\* Denotes average*

1. **Siding Dimensions and Description:**

Double Four	12'-6" (+) x 8"
Double Five	12'-0" (+) x 10"
Thickness:	.042 inch nominal (+/- .002")
Embossing:	Panel to match the sample provided under Section 1.03
Color:	Chosen from manufacturers standard selection
Interlock:	Siding panels are made with post-form style lock are factory-cut and notched for overlap.
Nail Slots:	Elongated nail slots 1" long are spaced approximately 1/4" apart in the nailing hem to allow siding to expand and contract properly.
Weep Holes:	Small holes under the bottom butt prevent vapor buildup and allow accumulated moisture to escape.

2. **Soffit Dimensions and Description:**

Description:	Each 12-inch-wide panel is nominally configured as three 4-inch panels in both aerated and solid panels. Aerated panels shall be lanced.
Length:	12 ft. 6 in. +/- 1/4 inch.
Width:	12 in. +/- 1/8 inch.
Thickness:	.040 nominal.

2.02 ACCESSORIES

- A. Accessories shall be consistent with the shape, size and properties as shown in the manufacturer's literature and as required for complete installation. Color shall be matched or color coordinated to the siding according to PHA/IHA's specifications. Accessories shall be produced from the same compound materials and with comparable properties as the siding.
- B. Aluminum covers for exposed wood (eaves, fascia, beams, frieze, window and door frames, etc.) shall be Vinyl Coated .019: (minimum) aluminum. Color shall be selected from manufacturers standard selections. Note: Optional .024 thickness on bid summary price sheet.
- C. Shutters where required shall be of durable polymer construction containing quality color pigment to provide uniform color throughout thickness.
- D. Shutters shall be 14" or 15" wide and open-louvered or raised panel design.
- E. Louvers at gable ends shall be stationary extruded aluminum. All fasteners shall be stainless steel or aluminum. Provide aluminum mesh bird screen. Finish baked enamel in standard color. Size 18x24 (+/-). Caulk and seal the whole assembly.

## **PART 3. EXECUTION**

### **3.01 EXAMINATION**

- A. Contractor shall be responsible for the field survey and all critical dimensions.
- B. Commencement of siding installation implies acceptance of the substrate as suitable to accept siding.

### **3.02 PREPARATION**

Any substrate flaws or defects must be repaired before the vinyl siding is applied. Vinyl siding must be applied to walls that are in plane and free from obstructions. Furr where necessary. Minimum 1/4" polystyrene foam underlayment shall be used as sheathing where required.

### **3.3 INSTALLATION**

- A. Install in accordance with the latest edition of the "Rigid Vinyl Siding Application Manual", published by the Vinyl Siding Institute of the Society of the Plastics Industry, Inc. Included in the application should be any special details from the drawings.
- B. The Vinyl siding and accessories shall be installed in accordance with the best practice, with all joint members plumb and true. Soffit over 24" shall have intermediate nailing strip. Caulk as required.
- C. All aluminum trim shall be attached with aluminum or stainless steel nails pre-finished to match the trim color. No staples shall be used to attach siding or trim.
- D. All vinyl siding shall have Tyvek underlayment (or equal) as per Code

### **3.04 FIELD QUALITY CONTROL**

After installation, check entire surface for obvious flaws or defects. Replace and repair any problem areas, paying close attention to the substrate for causes of the problem.

### **3.05 Clean-up**

After the vinyl siding has been applied, clean as necessary to remove all fingerprints and soiled areas. Upon completion of the siding application, the entire area is to be cleaned, removing all scrap, packaging and unused building materials. Area shall be left clean at the end of work day.

## BID/SUMMARY PRICE SHEET FOR VINYL SIDING, ACCESSORIES & RELATED PRODUCTS - INSTALLED

**CPC Bid Number:** \_\_\_\_\_ **Bid Date:** \_\_\_\_\_  
(Available on Invitation to Bid)

**Name of Firm:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Email:** \_\_\_\_\_ **Phone:** \_\_\_\_\_

**Manufacturer:** \_\_\_\_\_ **Model Number:** \_\_\_\_\_

Vinyl Siding: \_\_\_\_\_ per 100 S.F.      Porch Ceilings and Larger Soffit: \_\_\_\_\_ per 100 S.F.

Soffit:      12" \_\_\_\_\_ /L.F.      18" \_\_\_\_\_ /L.F.      24" \_\_\_\_\_ /L.F.

**ALUMINUM WRAP/COVER (.019")**

**ALUMINUM WRAP/COVER (.024")**

<b><u>Width</u></b>	<b><u>1 Break</u></b>	<b><u>2 Break</u></b>	<b><u>3+ Break</u></b>
Up to 6"	_____	_____	_____
Up to 8"	_____	_____	_____
Up to 10"	_____	_____	_____
Up to 12"	_____	_____	_____

*(Prices are per linear foot)*

<b><u>Width</u></b>	<b><u>1 Break</u></b>	<b><u>2 Break</u></b>	<b><u>3+ Break</u></b>
Up to 6"	_____	_____	_____
Up to 8"	_____	_____	_____
Up to 10"	_____	_____	_____
Up to 12"	_____	_____	_____

**SHUTTERS (15")**

<b><u>Height</u></b>	<b><u>Louvered</u></b>	<b><u>Raised Panel</u></b>
Up to 31"	_____	_____
Up to 43"	_____	_____
Up to 55"	_____	_____
Up to 67"	_____	_____

**ADDITIONAL POLYMER SIDING STYLES**

1. 7" Straight Edge Cedar Shakes      \$ \_\_\_\_\_  
(Per Square Foot)
2. Add for Corner Trim as needed      \$ \_\_\_\_\_  
(Per Linear Foot)
3. 6 1/4" Half Round Shingles      \$ \_\_\_\_\_  
(Per Square)

**OTHER OPTIONS / ITEMS**

Gable Louvers: \_\_\_\_\_ Ea.      Removal of Existing Siding Material: \_\_\_\_\_ /100 SF

1/4" Polystyrene Foam Underlayment \_\_\_\_\_ Per SF

1/4" Polystyrene Foil Backed Foam Underlayment \_\_\_\_\_ Per SF