SECTION 07 46 33

VINYL SIDING

For best results, display hidden notes to specifier.

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Super polymer vinyl siding.

B. Super polymer vinyl soffits.

C. Vinyl accessories and trim.

1.2 RELATED SECTIONS

A. Section 06100 - Rough Carpentry: Framing and Sheathing.

B. Section 07900 - Joint Sealers.

1.3 REFERENCES

A. ASTM D 256 - Standard Test Methods for Determining the Pendulum Impact Resistance of Notched Specimens of Plastics.

B. ASTM D 635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position.

C. ASTM D 638 - Standard Test Method for Tensile Properties of Plastics.

D. ASTM D 648 - Standard Test Method for Deflection Temperature of Plastics Under Flexural Load.

E. ASTM D 696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30 Degrees C and 30 Degrees C.

F. ASTM D 790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

G. ASTM D 792 - Standard test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement.

H. ASTM D 1784 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.

I. ASTM D 1929 - Standard test Method for Ignition Properties of Plastic.

J. ASTM D 2240 - Standard Test Method for Rubber Property--Durometer Hardness.

K. ASTM D 3679 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding.

L. ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and Materials.

M. Rigid Vinyl Siding Application Manual - Vinyl Siding Institute

1.4 PERFORMANCE REQUIREMENTS

A. Fire Resistance: Provide vinyl siding, soffit, and accessories that meet or exceed the following ratings:
   1. Flame spread 15, fuel contributed 0, smoke developed 390, when tested in accordance with ASTM E 84. Class A Rating
   2. Average time of burning: Less than 5 seconds, per ASTM D 635.
   3. Average extent of burning: Less than 25 mm, per ASTM D 635.
   4. Flash ignition temperature: 807 degrees F, per ASTM D 1929.
   5. Self ignition temperature: 878 degrees F, per ASTM D 1929.
   6. No detriment to one hour rated wall assembly, tested per ASTM E 119.

1.5 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Product Data: Submit manufacturer's standard product information, including detailed installation instructions.

C. Selection Samples: Submit manufacturer's standard color chips for selection of color and texture.

D. Verification Samples: Submit 3 samples of siding products in colors specified, each not less than 12 inches in length.

1.6 QUALITY ASSURANCE

A. Certification: Provide manufacturer's certification that vinyl siding products comply with specified requirements.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver siding packed two squares to the box, with each box color coded for product line and marked with lot number, color, and siding style.

B. Store siding on level, elevated platform that is kept clean and dry. Cover siding only with clear plastic.

1.8 WARRANTY

A. Within 30 days of completion of the work of this section, deliver manufacturer's written "Lifetime Plus" or "Lifetime" transferable limited warranty.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Provide vinyl siding products manufactured by Heartland Building Products, Inc.; Booneville, Mississippi 38829. ASD. Tel: (800) HEART-01.

B. Substitutions: Not permitted.

2.2 MATERIALS

A. Provide products made of post formed extruded PVC using the exclusive Heartland Super Polymer fomulation.

B. Polyvinyl Chloride (PVC): Provide siding materials made of compounds meeting the requirements of ASTM D 3679 for compound class number 2 and 3 with the following test results:
1. Cell classification, per ASTM D 1784: 11345.
2. Izod impact, per ASTM D 256: 32.5 ft-lb/inch of notch at 23 degrees C; 3.5 ft-lb/inch of notch at 0 degrees C.
3. Specific gravity, per ASTM D 792: 1.452.
4. Hardness-Durometer, per ASTM D 2240: 72+/-3.
5. Tensile strength, per ASTM D 638: 7,260 psi.
6. Modulus of elasticity, per ASTM D 790: 326,718.
7. Heat deflection temperature, per ASTM D 648: 164 degrees F at 264 psi.
8. Coefficient of linear expansion, per ASTM D 696: 0.0000312 inch/inch/degree F.
9. Warp, per ASTM D 3679: Less than 1/8 inch.
10. Weatherability, per ASTM D 3679: No cracking, peeling, chipping, or surface defects.
11. Surface distortion, per ASTM D 3679: None
12. Impact Resistance per ASTM 4226…>60in/Lbs.
13. Negative Windload per ASTM 5206 >54.088 PSF.

2.3 SIDING

A. Cedar MAX: A Thermally Enhanced, Energy Saving and Impact Resistant Super Polymer Vinyl Siding Formulation, "Double Ply" Windload Nailing Hem, Patented Locking System, Enhanced Weathering Characteristics, Low Luster Finish, Multi-Tone Stained Woodgrain Impression.
1. Style: Double 6; 12 inches wide; 12 feet, 6 inches long
2. Style: Double 6; 12 inches wide; 16 feet, 2 1/2 inches long
3. Style ..Single 7”, 7” Wide 16 feet, 2 1/2 inches long
4. Style…D 4.5” Dutch Lap, 12 inches wide; 16 feet, 2 1/2 inches long
5. Thickness: D6/S7 .050 inch per VSI Certification Standards
6. Thickness: D4DL . 046 inch per VSI Certification Standards.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: As indicated on drawings.
9. Color: _____.

B. Cedar Peaks: Super Polymer, Weather Barrier Shield, Rough Cedar Woodgrain, Impression, Low Gloss Natural Patina Finish, Patented Twister Lock and Cyclonic Locking System with Doubled-Over Windload (0.092 inch) Nailing Hem with Nailing Depth Guide.
1. Style: Double 4.5; 9 inches wide, 12 feet 1 inch length.
2. Style: Double 4.5 Dutch Lap; 9 inches wide, 12 feet 1 inch length.
3. Style: Single 6-1/2 Beaded. (.048 Thickness)
4. Thickness: 0.046 inch per VSI Certification Standards.
5. Color: As selected by Architect from manufacturer's standards.
6. Color: As indicated on drawings.
7. Color: _____.

C. Traditional: Super Polymer Weather Barrier Shield, Standard Windload Nailing Hem, Traditional Woodgrain Impression and Low Gloss Natural Patina Finish.
   1. Style: 8 inches wide; 12 feet, 6 inches long.
   2. Thickness: 0.046 inch per VSI Certification Standards.
   3. Color: As selected by Architect from manufacturer's standards.
   4. Color: As indicated on drawings.
   5. Color: _____.

D. Board 'N Batten: Solid Vinyl Formulation, Standard Windload Nailing Hem, Wood Grain Low Gloss Finish, Surface Concentration of Anti-Weathering Agents.
   1. Style: 7” Vertical panel; 7” inch width; 10 feet length.
   2. Thickness: 0.046 inch, per VSI Certification Standards.
   3. Color: As selected by Architect from manufacturer's standards.
   4. Color: As indicated on drawings.
   5. Color: _____.

E. Heart Tech: Super Polymer Formulation "Double Ply" Windload Nailing Hem, Woodgrain Impression and Low Gloss Natural Patina Finish.
   1. Style: Double 5; 10 inch width; 12 feet length.
   2. Style: Double 4 Dutch Lap; 8 inches width; 12 feet, six inches length.
   3. Style: Double 5 Dutch Lap; 10 inches width; 12 feet length.
   4. Thickness: 0.044 inch per VSI Certification Standards.
   5. Color: As selected by Architect from manufacturer's standards.
   6. Color: As indicated on drawings.
   7. Color: _____.

F. Arbor Glen: Super Polymer Vinyl Formulation, Standard Windload Nailing Hem, Woodgrain Impression, Low Gloss Natural Patina Finish.
   1. Style: Double 4.5; 9 inches width; 12 feet 1 inch or 16 feet length.
   2. Style: Double 4.5 Dutch Lap; 9 inches width; 12 feet 1 inch or 16 feet length.
   3. Thickness: 0.042 inch per VSI Certification Standards.
   4. Color: As selected by Architect from manufacturer's standards.
   5. Color: As indicated on drawings.
   6. Color: _____.

G. Autumnwood: Super Polymer Vinyl Formulation, Standard Windload Nailing Hem, Woodbark Impression and Latex - Soft Low Gloss Finish.
   1. Style: Double 4; 8 inches width; 12 feet, 6 inches length.
   2. Style: Double 5; 10 inches width; 12 feet length.
   3. Style: Double 4 Dutch Lap; 8 inches width; 12 feet, 6 inches length.
   4. Style: Double 5 Dutch Lap; 10 inches width; 12 feet length.
   5. Style: Triple 3; 9 inches width; 12 feet 1 inch length.
   6. Thickness: 0.042 inch per VSI Certification Standards.
   7. Color: As selected by Architect from manufacturer's standards.
   8. Color: As indicated on drawings.
   9. Color: _____.

H. Ultra Premium: Super Polymer Vinyl Formulation, Standard Windload Nailing Hem, Soft Mill Grain Impression and Low Luster Finish.
   1. Style: Double 4; 8 inches width; 12 feet, 6 inches length.
   2. Style: Double 4 Dutch Lap; 8 inches width; 12 feet, 6 inches length.
   3. Style: Double 5; 10 inches width; 12 feet length.
   4. Style: Double 5 Dutch Lap; 10 inches width; 12 feet length.
   5. Thickness: 0.040 inch per VSI Certification Standards.

6. Color: As selected by Architect from manufacturer's standards.
7. Color: As indicated on drawings.
8. Color: _____.

2.4 SOFFITS

A. Heart Tech Soffit (Vertical Paneling): Super Polymer Formulation, SPX-2000 UV Blocker, Standard Windload Nailing Hem, Woodgrain Impression and Low Gloss Natural Patina Finish.
1. Style: Double 6 Aerated Full Vent Drilled 4.63 sq. in. per sq. ft. NFA
2. Style: Double 6 Non-Aerated.
3. Thickness: Nominal 0.046 inch.
4. Width: 12 inches.
5. Length: 12 feet.
6. Color: As selected by Architect from manufacturer's standards.
7. Color: As indicated on drawings.
8. Color: _____.

B. Universal Soffit: Solid Vinyl Formulation, Standard Windload Nailing Hem, and Matte Impression.
1. Style: Triple 4 Center-Vented. 1.74 sq. in. per sq. ft. NFA
2. Style: Triple 4 Solid.
3. Style: Triple 4 Full Vent. 5.22 sq. in. per sq. ft. NFA
4. Style: Triple 4 Full Lanced Vent. 16.98 sq. in. per sq. ft. NFA
5. Style: Double 5” Solid
6. Style: Double 5” Drilled. 5.29 sq. in. per sq. ft. NFA
7. Thickness: Nominal 0.040 inch.
8. Width: 12 inches.
9. Length: 12 feet.
10. Color: As selected by Architect from manufacturer's standards.
11. Color: As indicated on drawings.
12. Color: _____.

C. Beaded Soffit (Vertical Paneling): Solid Vinyl Formulation, Standard Windload Nailing Hem, Matte Impression.
1. Style: Triple 3 Solid With Bead.
2. Style: Triple 3 Hidden Channel Vented with bead-6.12 sq. in. per sq. ft. NFA
3. Thickness: 0.042 inch.
4. Width: 6.125 inches.
5. Length: 12 feet 6 inches.
6. Color: As selected by Architect from manufacturer's standards.
7. Color: As indicated on drawings.
8. Color: _____.

D. Wood Haven Hidden Vent Soffit: Super Polymer Formulation, Matte Impression, Channel Vented Aeration.
1. Style: Triple 3-1/3 channel vented; 10 inches width; 12 feet length. 7.46 sq. in. per sq. ft. NFA
2. Style: Triple 3-1/3 Solid; 10 inches width; 12 feet length.
3. Thickness: 0.044 inch.
4. Color: As selected by Architect from manufacturer's standards.
5. Color: As indicated on drawings.
6. Color: _____.

2.5 SHAKE PANELS

A. Cedarbrook Rough-Cut Cedar Shake: Injection molded premium quality polypropylene, interlocking panel connection system, UV-inhibitor top coating.
   1. Style: 55-1/4 inches by 13 inches exposure; 15 inches width; 59-1/4 inches length.
   2. Thickness: 0.09 inch.
   3. Color: As selected by Architect from manufacturer's standards.
   4. Color: As indicated on drawings.
   5. Color: _____.

B. Cedarbrook Ornamental Rounds: Injection molded premium quality polypropylene, interlocking panel connection system, UV-inhibitor top coating.
   1. Style: 58-1/8 inches by 25 inches exposure.
   2. Thickness: 0.09 inch.
   3. Color: As selected by Architect from manufacturer's standards.
   4. Color: As indicated on drawings.
   5. Color: _____.

2.6 ACCESSORIES

A. Trim: Provide manufacturer's standard trim and finishing accessories with properties and in colors comparable to vinyl siding products specified.

B. Fasteners: Corrosion-resistant fasteners as recommended by manufacturer of vinyl siding products.

PART 3 EXECUTION

3.1 EXAMINATION

A. Prior to commencing work of this section, verify governing dimensions of building.

B. Examine substrate for flaws and defects. Do not commence work of this section until unacceptable substrate conditions have been corrected.

3.2 INSTALLATION

A. Install siding, soffits and accessories in strict accordance with "Rigid Vinyl Siding Application Manual."

B. Upon completion of installation, visually inspect for defective installation procedures or manufacturing defects. Replace and repair components as necessary.

3.3 CLEANING

A. Upon completion of installation, clean siding and soffits to remove all foreign debris and soiling. Remove packaging and waste material from project site.

END OF SECTION