

SECTION 07464

VINYL SIDING

PART GENERAL

SECTION INCLUDES

Super polymer and solid vinyl siding.

Super polymer and solid vinyl soffits.

Vinyl accessories and trim.

RELATED SECTIONS

Section 06100 - Rough Carpentry: Framing and Sheathing.

Section 07900 - Joint Sealers.

REFERENCES

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

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.

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

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

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

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

ASTM D 792 - Standard test Methods for Density and Specific

Gravity (Relative Density) of Plastics by Displacement.

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

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

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

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

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

Rigid Vinyl Siding Application Manual - Vinyl Siding Institute of the Plastics Industry.

Underwriters Laboratories Tested.

PERFORMANCE REQUIREMENTS

Fire Resistance: Provide vinyl siding, soffit, and accessories that meet or exceed the following ratings:

Flame spread 15, fuel contributed 0, smoke developed 390, when tested in accordance with ASTM E 84.

Average time of burning: Less than 5 seconds, per ASTM D 635.

Average extent of burning: Less than 25 mm, per ASTM D 635.

Flash ignition temperature: 807 degrees F, per ASTM D 1929.

Self ignition temperature: 878 degrees F, per ASTM D 1929.

No detriment to one hour rated wall assembly, tested per ASTM E 119.

Underwriters Laboratory Listing.

SUBMITTALS

Submit under provisions of Section 01300.

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

Selection Samples: Submit manufacturer's standard color chips for

selection of color and texture.

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

QUALITY ASSURANCE

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

DELIVERY, STORAGE, AND HANDLING

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.

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

WARRANTY

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

PART PRODUCTS

MANUFACTURER

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

Substitutions: Not permitted.

MATERIALS

Provide products made of post formed extruded PVC using the exclusive Heartland Super Polymer Multi-Lite 4 or Solid Vinyl formulation.

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:
Cell classification, per ASTM D 1784: 11345.

Izod impact, per ASTM D 256: 20.0 ft-lb/inch of notch at 23 degrees C; 3.8 ft-lb/inch of notch at 0 degrees C.
Specific gravity, per ASTM D 792: 1.452.
Hardness-Durometer, per ASTM D 2240: 72+/-3.
Tensile strength, per ASTM D 638: 6,181 psi.
Modulus of elasticity, per ASTM D 790: 360,514.
Heat deflection temperature, per ASTM D 648: 159 degrees F at 264 psi.
Coefficient of linear expansion, per ASTM D 696: 0.0000312 inch/inch/degree F.
Warp, per ASTM D 3679: Less than 1/8 inch.
Weatherability, per ASTM D 3679: No cracking, peeling, chipping, or surface defects.
Surface distortion, per ASTM D 3679: None.

SIDING

Natural Blend: A Wood Dimensional Solid Vinyl Siding Formulation, Enhanced Weathering Characteristics, Low Luster Finish, Multi-Tone Stained Woodgrain Impression.

Style: Double 4; 8 inch width; 12 feet, 6 inches length.

Thickness: 0.044 inch per VSI Certification Standards.

Color: As selected by Architect from manufacturer's standards.

Color: As indicated on drawings.

Color: _____.

Manor: Super Polymer Multi-Life 4 Formulation, Weather Barrier Shield, Traditional Woodgrain and Low Gloss Natural Patina Finish.

Style: Double 5 Dutch Lap.

Thickness: 0.044 inch per VSI Certification Standards.

Width: 10 inches.

Length: 12 feet.

Color: As selected by Architect from manufacturer's standards.

Color: As indicated on drawings.

Color: _____.

Traditional: Super Polymer Multi-Life 4 Formulation, Weather Barrier Shield, Traditional Woodgrain Impression and Low Gloss Natural Patina Finish.

Style: Double 4; 8 inch width; 12 feet, 6 inches length.

Style: Double 5; 10 inch width; 12 feet length.

Style: Single 8; 8 inch width; 12 feet, 6 inches length.

Thickness: 0.044 inch per VSI Certification Standards.

Color: As selected by Architect from manufacturer's

standards.

Color: As indicated on drawings.

Color: _____.

Imperial Cascade: Super Polymer Multi-Life 4 Formulation, Weather Barrier Shield, Brushed Finish and Low Gloss Natural Patina Finish.

Style: Single 6-1/2 Beaded.

Thickness: 0.048 inch per VSI Certification Standards.

Width: 6-1/2 inches.

Length: 12 feet, 4 inches.

Color: As selected by Architect from manufacturer's standards.

Color: As indicated on drawings.

Color: _____.

Heart Tech: Super Polymer Formulation and SPX-2000 UV Blocker, Woodgrain Impression and Low Gloss Natural Patina Finish.

Style: Double 4; 8 inch width; 12 feet, 6 inches length.

Style: Double 5; 10 inch width; 12 feet length.

Style: Double 4 Dutch Lap; 8 inches width; 12 feet, six inches length.

Style: Double 5 Dutch Lap; 10 inches width; 12 feet length.

Thickness: 0.044 inch per VSI Certification Standards.

Color: As selected by Architect from manufacturer's standards.

Color: As indicated on drawings.

Color: _____.

Heart Tech Smooth: Super Polymer Formulation and SPX- 2000 UV Blocker, Smooth Finish and Low Gloss Natural Patina Finish.

Style: Triple 3; 9 inches width; 12 feet length.

Style: Double 4; 8 inches width; 12 feet 6 inches length.

Thickness: 0.044 inch per VSI Certification Standards.

Autumnwood: Solid Vinyl Formulation, Woodbark Impression and Latex - Soft Low Gloss Finish.

Style: Double 4; 8 inches width; 12 feet, 6 inches length.

Style: Double 5; 10 inches width; 12 feet length.

Style: Double 4 Dutch Lap; 8 inches width; 12 feet, 6 inches length.

Style: Double 5 Dutch Lap; 10 inches width; 12 feet length.

Style: Triple 3; 9 inches width; 12 feet length.

Style: Single 6-1/2; 6-1/2 inches width; 12 feet, 4 inches length.

Thickness: 0.042 inch per VSI Certification Standards.

Thickness: 0.046 inch per VSI Certification Standards.

Color: As selected by Architect from manufacturer's standards.

Color: As indicated on drawings.

Color: _____.

Ultra Premium: Solid Vinyl Formulation, Soft Mill Grain Impression and Low Luster Finish.

Style: Double 4; 8 inches width; 12 feet, 6 inches length.

Style: Double 4 Dutch Lap; 8 inches width; 12 feet, 6 inches length.

Style: Double 5; 10 inches width; 12 feet length.

Style: Double 5 Dutch Lap; 10 inches width; 12 feet length.

Thickness: 0.040 inch per VSI Certification Standards.

Color: As selected by Architect from manufacturer's standards.

Color: As indicated on drawings.

Color: _____.

SOFFITS

Extra Strength Soffit (Vertical Paneling): Super Polymer Multi-Life 4 Formulation, Weather Barrier Shield, Traditional Woodgrain and Low Gloss Natural Patina Finish.

Style: Double 6 Aerated (Lanced).

Style: Double 6 Non-Aerated.

Thickness: Nominal 0.050 inch.

Width: 12 inches.

Length: 12 feet.

Color: As selected by Architect from manufacturer's standards.

Color: As indicated on drawings.

Color: _____.

Heart Tech Soffit (Vertical Paneling): Super Polymer Formulation, SPX-2000 UV Blocker, Woodgrain Impression and Low Gloss Natural Patina Finish.

Style: Double 6 Aerated (Lanced).

Style: Double 6 Non-Aerated.

Thickness: Nominal 0.048 inch.

Width: 12 inches.

Length: 12 feet.

Color: As selected by Architect from manufacturer's standards.

Color: As indicated on drawings.

Color: _____.

Standard Soffit (Vertical Paneling): Solid Vinyl Formulation and Pebble Impression Finish.

Style: Double 6 Aerated (Lanced).

Style: Double 6 Non-Aerated.

Thickness: Nominal 0.048 inch.

Width: 12 inches.

Length: 12 feet.

Color: As selected by Architect from manufacturer's standards.

Color: As indicated on drawings.

Color: _____.

Autumnwood Soffit: Solid Vinyl Formulation and Matte Impression.

Style: Triple 4 Center-Vented.

Style: Triple 4 Solid.

Thickness: 0.040 inch.

Width: 12 inches.

Length: 12 feet.

Color: As selected by Architect from manufacturer's standards.

Color: As indicated on drawings.

Color: _____.

Natural Blend Soffit (Vertical Paneling): A Wood Dimensional Solid Vinyl Formulation with Enhanced Weathering Characteristics, Low Luster Finish, Multi-Tone Stained Woodgrain Impression.

Style: Double 5 Aerated (Lanced).

Style: Double 5 Non-Aerated.

Thickness: 0.042 inch.

Width: 10 inches.

Length: 12 feet.

Color: As selected by Architect from manufacturer's standards.

Color: As indicated on drawings.

Color: _____.

Beaded Soffit (Vertical Paneling): Solid Vinyl Formulation, Matte Impression.

Style: Triple 3 Solid With Bead.

Style: Triple 3 Perforated With Bead.

Thickness: 0.042 inch.

Width: 9 inches.

Length: 12 feet.

Color: As selected by Architect from manufacturer's standards.

Color: As indicated on drawings.

Color: _____.

ACCESSORIES

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

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

PART EXECUTION

EXAMINATION

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

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

INSTALLATION

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

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

CLEANING

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