

SECTION 07464

VINYL SIDING AND SOFFITS

PART GENERAL

SECTION INCLUDES

Vinyl siding.

Vinyl soffits.

Vinyl trim and accessories.

RELATED SECTIONS

Section 06100 - Rough Carpentry: Framing and sheathing.

Section 07900 - Joint Sealers.

REFERENCES

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

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

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

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

ASTM D 696 - Test Method for Coefficient of Linear Expansion of Plastics.

ASTM D 1929 - Test Method for Ignition Properties of Plastics.

ASTM D 2843 - Test Method for Density of Smoke from the Burning or Decomposition of Plastics.

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

ASTM D 4226 - Test Methods for Impact Resistance of Rigid Poly(Vinyl Chloride) (PVC) Building Products.

ASTM E 84 - Test Method for Surface Burning Characteristics of Building Materials.

SUBMITTALS

Submit under provisions of Section 01300.

Samples: Siding/soffit design, size, and color for approval.

Certificate: Manufacturer's certification that siding/soffit as supplied meets or exceeds the conditions specified herein.

QUALITY ASSURANCE

Manufacturer: Maintain rigorous production quality control standards to ensure that vinyl siding and soffit will perform as expected for its intended use.

Regulatory Requirements:

National Building Code - BOCA Research No. 93-42.
Standard Building Code - SBCCI Compliance Report No. 9632A.
Uniform Building Code - ICBO Evaluation Report No. 3663.
HUD-FHA Minimum Property Standards.

DELIVERY, STORAGE, AND HANDLING

Pack siding and soffits two squares per carton and clearly mark each carton with manufacturer's name, siding style, color, and identifying lot number.

Store vinyl siding, soffits, and accessories in clean, dry area, out of direct sunlight.

Handle material to prevent damage. Do not allow cartons to crease.

WARRANTY

Upon completion, provide a written transferable, lifetime limited warranty.

PART PRODUCTS

MANUFACTURERS

Acceptable Manufacturer: Alside Division of Associated Materials Incorporated, Cuyahoga Falls, OH; ASD. Tel: (800) 922-6009.

Requests for substitutions will be considered in accordance with provisions of Section 01600.

Substitutions: Not permitted.

Provide all vinyl siding and soffits from a single manufacturer.

MATERIALS

Vinyl Siding and Soffits: Produced from Polyvinyl chloride (PVC) compounds meeting ASTM D 3679 requirements for compound class number 2.

Average Impact Strength: 3.5 ft.lbs./in. of notch at 73.4 degrees F, per ASTM D 256.

Average Impact Strength: 2.4 ft. lbs./in. of notch at 32 degrees F, per ASTM D 256.

Tensile Strength: 6,370 psi, per ASTM D 638.

Modulus of Elasticity: 343,000 psi, per ASTM D 638.

Deflection Temperature: 181 degrees F, per ASTM D 648.

Fire Resistance:

Average Time of Burning: Less than 5 seconds, per ASTM D 635.

Average Extent of Burning: Less than 5 mm, per ASTM D 635.

Flame Spread: 10, per ASTM E 84.

Smoke Density: Greater than 360, per ASTM E 84.

Ignition Properties: Self ignition did not occur; at 680 degrees F, sample smolders and continues to consumption.

Typical Siding Properties:

Warp: 0.0 inches, per ASTM D 3679.

Heat Shrinkage: 0.5 percent, per ASTM D 3679.

Impact Resistance: 2.0 inch pounds/mil, per ASTM D 4226, Process A, H.25.

Weatherability: No surface or structural defects such as peeling, cracking, or chipping when tested per ASTM D 3679.

Coefficient of Linear Expansion: 3.53×10^5
in./in. F degree, per ASTM D 696.
Gloss: Plus or minus 5 units, per ASTM D 3679.
Surface Distortion: No distortion at 105 degrees
F, per ASTM D 3679.

Charter Oak:

4-1/2 inch clapboard profile.
Each 9-inch wide horizontal siding panel
nominally configured as two 4-1/2 inch panels in
the clapboard style.
TriBeam panel reinforcement system.
Length: 12 feet 1 inch.
Width: 9 inches.
Thickness: 0.046 inch.

Charter Oak:

4-1/2 inch dutch lap profile.
Each 9-inch wide horizontal siding panel
nominally configured as two 4-1/2 inch panels in
the dutch lap style.
TriBeam panel reinforcement system.
Length: 12 feet 1 inch.
Width: 9 inches.
Thickness: 0.046 inch.

Greenbriar:

3 inch clapboard profile.
Each 9-inch wide horizontal siding panel
nominally configured as three 3-inch panels in
the clapboard style.
Length: 12 feet 1 inch.
Width: 9 inches.
Thickness: 0.044 inch.

Greenbriar:

4 inch clapboard profile.
Each 8-inch wide horizontal siding panel
nominally configured as two 4-inch panels in the
clapboard style.
Length: 12 feet 1 inch.
Width: 8 inches.
Thickness: 0.044 inch.

Highland Cedar:

4-1/2 inch clapboard profile.
Each 9-inch wide horizontal siding panel
nominally configured as two 4-1/2 inch panels in
the clapboard style.
ArrowLock positive locking system. Panels
doubled over to provide 0.088 inch thickness at
nail hems.
Length: 12 feet 1 inch.

Width: 9 inches.
Thickness: 0.044 inch.

Highland Cedar:
4-1/2 inch dutch lap profile.
Each 9-inch wide horizontal siding panel
nominally configured as two 4-1/2 inch panels in
the dutch lap style.
ArrowLock positive locking system. Panels
doubled over to provide 0.088 inch thickness at
nail hems.
Length: 12 feet 1 inch.
Width: 9 inches.
Thickness: 0.044 inch.

Williamsport Colonial Beaded Brand:
6-1/2 inch beaded profile.
Each 6-1/2-inch wide horizontal siding panel
nominally configured as one panel in the beaded
style.
Length: 12 feet 4 inches.
Width: 6-1/2 inches.
Thickness: 0.044 inch.

CenterLock Series:
4-1/2 inch clapboard profile.
Each 9-inch wide horizontal siding panel
nominally configured as two 4-1/2 inch panels in
the clapboard style.
Center locking configuration.
Length: 12 feet 1 inch.
Width: 9 inches.
Thickness: 0.042 inch.

CenterLock Series:
4-1/2 inch dutch lap profile.
Each 9-inch wide horizontal siding panel
nominally configured as two 4-1/2 inch panels in
the dutch lap style.
Center locking configuration.
Length: 12 feet 1 inch.
Width: 9 inches.
Thickness: 0.042 inch.

Odyssey Series:
5 inch clapboard profile.
Each 10-inch wide horizontal siding panel
nominally configured as two 5 inch panels in the
clapboard style.
Length: 12 feet.
Width: 10 inches.
Thickness: 0.044 inch.

Odyssey Series:

5 inch dutch lap profile.
Each 10-inch wide horizontal siding panel
nominally configured as two 5 inch panels in the
dutch lap style.
Length: 12 feet.
Width: 10 inches.
Thickness: 0.044 inch.

Odyssey Series:

4 inch clapboard profile.
Each 8-inch wide horizontal siding panel
nominally configured as two 4 inch panels in the
clapboard style.
Length: 12 feet 6 inches.
Width: 8 inches.
Thickness: 0.044 inch.

Odyssey Series:

4 inch dutch lap profile.
Each 8-inch wide horizontal siding panel
nominally configured as two 4 inch panels in the
dutch lap style.
Length: 12 feet 6 inches.
Width: 8 inches.
Thickness: 0.044 inch.

Conquest:

4-1/2 inch clapboard profile.
Each 9-inch wide horizontal siding panel
nominally configured as two 4-1/2 inch panels in
the clapboard style.
Length: 12 feet 1 inch.
Width: 9 inches.
Thickness: 0.040 inch.

Conquest:

4-1/2 inch dutch lap profile.
Each 9-inch wide horizontal siding panel
nominally configured as two 4-1/2 inch panels in
the dutch lap style.
Length: 12 feet 1 inch.
Width: 9 inches.
Thickness: 0.040 inch.

Alpha:

4 inch clapboard profile.
Each 8-inch wide horizontal siding panel
nominally configured as two 4 inch panels in the
clapboard style.
Length: 12 feet 6 inches.
Width: 8 inches.
Thickness: 0.040 inch.

Alpha:

4 inch dutch lap profile.
Each 8-inch wide horizontal siding panel
nominally configured as two 4 inch panels in the
dutch lap style.
Length: 12 feet 6 inches.
Width: 8 inches.
Thickness: 0.040 inch.

Greenbriar:

Each 8-inch wide panel nominally configured as
two 4-inch panels with an accent bead in both
aerated and solid panels.
Aerated panels invisibly perforated.
Length: 12 feet 6 inches.
Width: 8 inches.
Thickness: 0.044 inch.

Series E Brand:

Each 12-inch wide panel nominally configured as
three 4-inch panels in both aerated and solid
panels.
Aerated panels lanced.
Length: 12 feet 6 inches.
Width: 12 inches.
Thickness: 0.040 inch.

Super Span:

Each 10-inch wide panel nominally configured as
two 5-inch panels in both aerated and solid
panels.
Aerated panels lanced.
Length: 12 feet.
Width: 10 inches.
Thickness: 0.044 inch.

Embossing and Color: Match approved sample.

Interlock: Post-form style lock with positive
interlock; both ends of panels factory cut and
notched for overlap.

Nail Slots: Elongated 1-inch slots spaced
approximately 4 inches apart in nailing hem to allow
for expansion and contraction.

Weep Holes: Small holes under the bottom butt to
prevent vapor build-up and allow accumulated moisture
to escape.

Accessories:

Consistent with shape, size, and properties shown on
the drawings and as required for complete
installation.

Produced from the same compound materials and with
comparable properties as the siding.

Color: Matching or color coordinated with siding.

PART EXECUTION

EXAMINATION

Confirm that all critical dimensions are as shown on the drawings.

Beginning installation indicates Installer's acceptance of substrate as suitable to accept siding and soffits.

PREPARATION

Repair substrate flaws or defects before applying siding or soffits.

Where necessary, furr surfaces to be plane and free from obstructions before application.

INSTALLATION

Install siding and soffits in accordance with the latest edition of "How to Install Vinyl Siding and Soffit," published by Alside, and special details from the drawings.

Install vinyl siding, soffits, and accessories in accordance with best practice, with all joint members plumb and true.

FIELD QUALITY CONTROL

After installation of siding and soffits, 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.

CLEANING

After application of siding and soffits, clean as necessary to remove all fingerprints and soiled areas.

Upon completion of siding application, clean entire area, removing all scrap, packaging, and unused materials related to this work.

END OF SECTION