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Architectural Specifications

PART I GENERAL

1.1 References

- D 3679** American Society for Testing and Materials (ASTM).
Standard Specification for Rigid Poly(Vinyl Chloride)(PVC) Siding
- D 256** Test Methods for Determining the Izod Impact Resistance of Plastics
- 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** Standard Test Method for Tensile Properties of Plastics
- D 648** Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position
- D 696** Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C
- D 4226** Standard Test Methods for Impact Resistance of Rigid Poly (Vinyl Chloride)(PVC) Building Products
- E 84-01** Standard Test Method for Surface Burning Characteristics of Building Materials. Named method comparable to:
UL 723
ANSI/NFPA No.255
UBC No. 8-1

1.2 Submittals

Submit samples of siding in no less than 12" lengths for approval of style and color.

1.3 Logistics

- A.** Hand Split Shake, Narrow Sawn Shingle and Staggered Shakes to be packed one square per box. Shapes are to be packed 0.5 squares per box. Square/Transitional Starter to be packed 0.25 squares per box. All boxes to be clearly marked with product name and style, color, pieces per box, and date of manufacture.
- B.** Siding should be stored in an upright position as indicated by manufacturer on each box.
- C.** Handling damage to be avoided.

1.4 Warranty

Provide a written 50-year warranty for commercial applications or a limited lifetime warranty for residential applications.



All Foundry products are covered by 50-year warranty for commercial applications, and a limited lifetime warranty for residential applications. Please ask your contractor or distributor for additional details or visit us at www.FOUNDRYSIDING.COM.



PART II PRODUCTS

2.1 Manufacturer

Product supplied by The Foundry, 200 Shotwell Drive, Franklin, Ohio, 45005.

2.2 Materials

- A.** Vinyl (rigid Poly(Vinyl Chloride)(PVC)) Siding shall conform to all applicable requirements established by ASTM Specification D 3679 “Standard Specification for Rigid Poly(Vinyl Chloride)(PVC) Siding”.
- B.** Nominal Compound Properties for vinyl siding; Vinyl siding is produced from PVC compounds meeting the requirements of compound class number 2 per ASTM 3679 with the following product and manufacturing specifications:
1. Impact strength: 3.5 ft.-lb/inch at 72°F per ASTM D 256
 2. Tensile strength: 6,200 psi per ASTM D 638
 3. Flexural modulus of elasticity: 360,000 per ASTM D 638
 4. Deflection temperature: 165° F per ASTM D 648
 5. Coefficient of linear expansion: 3.5×10^{-5} in./in./°F

C. Fire Resistance Properties

ASTM D 635: Material is self-extinguishing with no measurable extent of burn when tested in accordance with this specification.

1. Average time of burning: <5 seconds per ASTM D 635
2. Average extent of burning: <10 mm per ASTM D 635
3. Fuel Contribution: 0

ASTM E84: Class 1 (A) surface burning characteristics

1. Flame Spread Index: ≤ 25 .
2. Smoke Developed Index: ≤ 450
3. Flame spread: 20 per ASTM E84-01
4. Smoke density: 400 per ASTM E84-01

ASTM D 1929: Self Ignition 878° F

NFPA 268 Radiant Heat Test/Ignition Resistance of Exterior Walls. Conclusion that the Foundry vinyl sidings were tested and met the conditions for allowable use as specified in Section 1406 of the International Standard Building Code.

All the Foundry products has been tested and analyzed to be in conformance with the following Heat Distortion Test – NFPA 268.





D. Typical siding properties

1. Camber: $\leq 1/8$ per ASTM D 3679 5.5.3
2. Heat shrinkage: $\leq 3.0\%$ per ASTM D 3679 5.5.4
3. Impact resistance: 60 in lb + per ASTM D 4266 proc. A
4. Coefficient of linear expansion: 3.5×10^{-5} in./in./°F per ASTM D 696
5. Gloss: uniform per ASTM D 3679 5.5.7
6. Surface distortion: None at 120° F per ASTM D 3679 5.5.8
7. Wind load resistance: 74.3 psf per ASTM D 5206
8. Product evaluation EC-51 by the Texas Department of Insurance. In compliance with the wind loads specified in International Residential Code (IRC) and the International Building Code (IBC).
9. Weathering: Meets the weathering standard in ASTM D 3679 using ASTM D 1435 procedure.

E. Siding Dimensions and Descriptions

1. Foundry Shakes

Description: Each panel of the 8 panel series has an exposure of 7" x 60" and is comprised of 10 individual hand split cedar shakes of various widths. Wood grains are authentic and the appearance of knots, gouges, splits, etc. are considered a design feature. Overlaps are concealed by the use of a 1.25" overlap extension.

Length: 61.5" (60" exposure)

Width: 8.5" (7" exposure)

Thickness: (nominal) All panels exceed requirements per ASTM D 3679.

Wood Grain: Hand split shake

Color: Architect shall specify color of siding from samples provided under section 1.2.

Interlock: Panels are upward locking with an integral, selfsupporting, step-style, doubled over nailing hem.

Nail Slots: Oval shaped slots $3/8$ " long are spaced approximately $3/4$ " apart in the nailing hem to allow for necessary expansion and contraction. Both ends of the panel are pre-trimmed and notched for a seamless appearance.

Weep Holes: The panel overlap extension is indented and trimmed to create a small opening in the overlap area to prevent vapor build-up and allow accumulated moisture to escape.





2. Foundry Shingles, 7" Exposure

Description: Each panel of the 8 panel series has an exposure of 7" x 60" and is comprised of 10 individual narrow sawn cedar shingles of various widths. Wood grains are authentic and the appearance of knots, gouges, splits, saw blade kerfs, etc. are considered a design feature. Overlaps are concealed by the use of a 1.25" overlap extension.

Length: 61.5" (60" exposure)

Width: 8.5" (7" exposure)

Thickness: (nominal) All panels exceed requirements per ASTM D 3679.

Wood Grain: Narrow sawn shingle

Color: Architect shall specify color of siding from samples provided under section 1.2.

Interlock: Panels are upward locking with an integral, selfsupporting, step-style, doubled over nailing hem.

Nail Slots: Oval shaped slots 3/8" long are spaced approximately 3/4" apart in the nailing hem to allow for necessary expansion and contraction. Both ends of the panel are pre-trimmed and notched for a seamless appearance.

Weep Holes: The panel overlap extension is indented and trimmed to create a small opening in the overlap area to prevent vapor build-up and allow accumulated moisture to escape.

3. Foundry Shingles, 5" Exposure Double Course

Description: Each panel of the 8 panel series has an exposure of 10" x 62 1/2" and is comprised of 24 individual narrow sawn cedar shingles of various widths per panel. Wood grains are authentic and the appearance of knots, gouges, splits, saw blade kerfs, etc. are considered a design feature. Overlaps are concealed by the use of a 1.25" overlap extension.

Length: 62 1/2" exposure

Width: 10" exposure

Thickness: (nominal) All panels exceed requirements per ASTM D 3679.

Wood Grain: Narrow sawn shingle

Color: Architect shall specify color of siding from samples provided under section 1.2.

Interlock: Panels are upward locking with an integral, selfsupporting, step-style, doubled over nailing hem.

Nail Slots: Oval shaped slots 3/8" long are spaced approximately 3/4" apart in the nailing hem to allow for necessary expansion and contraction. Both ends of the panel are pre-trimmed and notched for a seamless appearance.

Weep Holes: The panel overlap extension is indented and trimmed to create a small opening in the overlap area to prevent vapor build-up and allow accumulated moisture to escape.





4. Foundry Staggered

Length: 62" exposure

Width: 10" exposure

Thickness: (nominal) All panels exceed requirements per ASTM D 3679.

Wood Grain: Staggered Split Shakes

Color: Architect shall specify color of siding from samples provided under section 1.2.

Interlock: Panels are upward locking with an integral, selfsupporting, step-style, doubled over nailing hem.

Nail Slots: Oval shaped slots 3/8" long are spaced approximately 3/4" apart in the nailing hem to allow for necessary expansion and contraction. Both ends of the panel are pre-trimmed and notched for a seamless appearance.

Weep Holes: The panel overlap extension is indented and trimmed to create a small opening in the overlap area to prevent vapor build-up and allow accumulated moisture to escape.

5. Foundry Shapes

Styles: "Shapes" comprises seven commonly available classic cedar shapes; Half Round, Fish Scale, Half Cove, Octagon, Hexagon, Mitered Corner, and Transitional/Square Starter. Architect shall specify color and shape of siding from samples provided under section 1.2.

Description: Each panel of the 8 panel series has an exposure of 6" x 60" and is comprised of 12 individual narrow sawn cedar shingles at 5 3/4" width. Wood grains are authentic and the appearance of knots, gouges, splits, saw blade kerfs, etc. are considered a design feature. Overlaps are concealed by the use of a 1.25" overlap extension.

Length: 61.5" (60" exposure)

Width: 9.0" (6" exposure)

Thickness: (nominal) All panels exceed requirements per ASTM D 3679.

Wood Grain: Narrow sawn shingle

Color: Architect shall specify color of siding from samples provided under section 1.2.

Interlock: All 7 shapes interlock with one another with a press and hold male/female style clamp lock.

Nail Slots: Oval shaped slots 3/8" long are spaced approximately 3/4" apart in the single flange nailing hem to allow for necessary proper expansion and contraction. Both ends of the panel are pretrimmed and notched for a seamless appearance.





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PART III EXECUTION

3.1 Examination

- A. Verify that all critical dimensions are in agreement with drawings.
- B. Verify that substrate is suitable to receive siding.

3.2 Preparation

Prior to application of siding, all substrate conditions, which could hinder proper installation, must be repaired.

3.3 Installation

Install products in accordance with manufacturers latest published instructions and in conjunction with ASTM D 4756 “Standard Practice for Installation of Rigid Poly(Vinyl Chloride) (PVC) Siding and Soffit” and “Vinyl Siding Installation, A How-To Guide” by the Vinyl Siding Institute.

3.4 Cleaning

After completion of siding application, remove all extraneous debris from the job site.