

SECTION 07464

VINYL SIDING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Solid vinyl siding and accessories.
- B. Solid vinyl soffit and accessories.
- C. Vented vinyl soffit and accessories.

1.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry: Framing and Sheathing.
- B. Section 07260 - Vapor Retarders.
- C. Section 07900 - Joint Sealers.

1.3 REFERENCES

- A. ASTM D 1435 - Standard Practice for Outdoor Weathering of Plastics.
- B. ASTM D 3679 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding.

1.4 PERFORMANCE REQUIREMENTS

- A. Provide vinyl siding and accessories that comply with requirements of ASTM D 3679, Class 2.
 - 1. Cell classification: 1334.
 - 2. Tensile strength: 7,344 psi.
 - 3. Modulus of elasticity: 455,750 psi average.
 - 4. Izod impact, standard 1/8 inch bar: 1.5 ft.lbs/in average.
 - 5. Deflection temperature: 168 degrees F.
 - 6. Flash ignition temperature: 752 degrees F.
 - 7. Self ignition temperature: 842 degrees F.
 - 8. Maximum smoke density: 86 percent.
 - 9. Smoke density rating: 52.4 percent average.
 - 10. Flammability, horizontal:
 - a. Burn distance: Less than 10 mm.
 - b. Burn time: Less than 5 seconds.
 - 11. Flammability, vertical: Non-burning.
 - 12. Wind load resistance: 58.2 ft-lbs/sq. ft.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's standard information and installation instructions on vinyl siding and accessories.
- C. Selection Samples: Submit full range of color chips for Architect's selection.
- D. Verification Samples: Submit three samples of siding products in color specified, not less than 12 inches in length.

1.6 QUALITY ASSURANCE

- A. Symmetry Siding Installer: Trained installer certified and approved by siding manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to project site in original packaging.
- B. Store siding products on flat surface under cover, stacked no more than 12 boxes high. Do not store in any location where temperatures may exceed 130 degrees F.

1.8 WARRANTY

- A. Provide manufacturer's standard limited lifetime, non-prorated warranty, transferable to new owner.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Provide vinyl siding products manufactured by Wolverine Vinyl Siding, 750 E. Swedesford Rd., Valley Forge, PA 19482. ASD. Telephone: 888-838-8100.
- B. Substitutions will not be acceptable.

2.2 PRODUCTS

- A. Material Properties: Provide polyvinyl chloride products with properties that meet or exceed the following:
1. Shrinkage: 3 percent.
 2. Coefficient of linear expansion: 0.000031 in/in./degree F.
 3. Gardner impact: 1.74 in./lb ft/mil.
 4. Surface distortion at 120 degrees F: None.
 5. Gloss (75 degree T Gloss Meter): Uniform.
 6. Weathering per ASTM D 1435: Free of any visual surface defects, such as peeling, chipping, cracking, flaking or crazing due to manufacturing conditions.
 7. Chalking: Number 6 Rating caused by manufacturing defects within 5 years in vertical exposure.
 8. Color: Uniform on surface and throughout the panels.

2.3 VINYL SIDING

A. Portfolio HP:

1. Design: Double 4.5 inch clapboard (D45HP); smooth finish.
2. Width: 9 inches +/-0.062 in.
3. Length: 12 feet, 1 inch +/- 0.25 in.
4. Average Thickness: 0.055 in.
5. Exposure: 4.5 in., staggered double nail hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

B. Destinations:

1. Design: Beaded 6.5 inch (D6B); brushed finish.
2. Width: 6.5 inches +/-0.062 in.
3. Length: 12 feet, 4 inches +/- 0.25 in.
4. Average Thickness: 0.040 in.
5. Exposure: 6.5 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

C. American Legend:

1. Design: Triple 3 inch clapboard (DT3); brushed finish.
2. Width: 9 inches +/-0.062 in.
3. Length: 12 feet, 1 inches +/- 0.25 in.
4. Average Thickness: 0.042 in.
5. Exposure: 3 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.

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

D. American Legend:

1. Design: Single 8 inch clapboard (S8CL); brushed finish.
2. Width: 8 inches +/-0.062 in.
3. Length: 12 feet, 6 inches +/- 0.25 in.
4. Average Thickness: 0.044 in.
5. Exposure: 8 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

E. Restoration Classic:

1. Design: Triple 3 inch clapboard (T3VS); smooth finish.
2. Width: 9 inches +/-0.062 in.
3. Length: 12 feet, 1 inch +/- 0.25 in.
4. Average Thickness: 0.044 in.
5. Exposure: 3 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

F. Restoration Classic:

1. Design: Double 4.5 inch clapboard (D45VS); smooth finish.
2. Width: 9 inches +/-0.062 in.
3. Length: 12 feet, 1 inch +/- 0.25 in.
4. Average Thickness: 0.044 in.
5. Exposure: 4.5 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

G. Benchmark Reinforced Vinyl Siding:

1. Design: Double 4 inch clapboard (BRSD4); woodgrain finish.
2. Width: 8 inches +/- 0.062 in.
3. Length: 12 feet, 6 inches +/- 0.25 in.
4. Average Thickness: 0.042 in.

5. Exposure: 4 in., single nailing hem with stabilizer reinforcement.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

H. Benchmark Reinforced Vinyl Siding:

1. Design: Double 4.5 inch dutchlap (BRSDL45); woodgrain finish.
2. Width: 9 inches +/-0.062 in.
3. Length: 12 feet, 1 inch +/- 0.25 in.
4. Average Thickness: 0.042 in.
5. Exposure: 4.5 in., single nailing hem with stabilizer reinforcement.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

I. Benchmark Reinforced Vinyl Siding:

1. Design: Double 5 inch clapboard (BRSD5); woodgrain finish.
2. Width: 10 inches +/-0.062 in.
3. Length: 12 feet +/- 0.25 in.
4. Average Thickness: 0.042 in.
5. Exposure: 5 in., single nailing hem with stabilizer reinforcement.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

J. American Legend:

1. Design: 4 inch clapboard (ALD4); woodgrain finish.
2. Width: 8 inches +/-0.062 in.
3. Length: 12 feet, 6 inches +/- 0.25 in.
4. Average Thickness: 0.042 in.
5. Exposure: 4 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

K. American Legend:

1. Design: 5 inch clapboard (ALD5); woodgrain finish.
2. Width: 10 inches +/-0.062 in.

3. Length: 12 feet +/- 0.25 in.
4. Average Thickness: 0.042 in.
5. Exposure: 5 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

L. American Legend:

1. Design: 4.5 inch Dutchlap (AL45DL); woodgrain finish.
2. Width: 9 inches +/-0.062 in.
3. Length: 12 feet, 1 inch +/- 0.25 in.
4. Average Thickness: 0.042 in.
5. Exposure: 4.5 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

M. Encore:

1. Design: Double 4 inch clapboard (ED4); woodgrain finish.
2. Width: 8 inches +/-0.062 in.
3. Length: 12 feet, 6 inches +/- 0.25 in.
4. Average Thickness: 0.040 in.
5. Exposure: 4 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

N. Encore:

1. Design: Double 4.5 inch Dutchlap (EDL45); woodgrain finish.
2. Width: 9 inches +/-0.062 in.
3. Length: 12 feet, 1 inch +/- 0.25 in.
4. Average Thickness: 0.040 in.
5. Exposure: 4.5 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

O. Encore:

1. Design: Double 5 inch clapboard (ED5); woodgrain finish.

2. Width: 10 inches +/-0.062 in.
3. Length: 12 feet +/- 0.25 in.
4. Average Thickness: 0.040 in.
5. Exposure: 5 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

P. Encore:

1. Design: Triple 3 inch clapboard (ET3); woodgrain finish.
2. Width: 9 inches +/-0.062 in.
3. Length: 12 feet, 1 inch +/- 0.25 in.
4. Average Thickness: 0.040 in.
5. Exposure: 3 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

Q. Weatherstone:

1. Design: Double 4 inch clapboard (D4COX); woodgrain finish.
2. Width: 8 inches +/-0.062 in.
3. Length: 12 feet, 6 inches +/- 0.25 in.
4. Average Thickness: 0.040 in.
5. Exposure: 4 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

R. Weatherstone:

1. Design: Double 5 inch clapboard (D5COX); woodgrain finish.
2. Width: 10 inches +/-0.062 in.
3. Length: 12 feet +/- 0.25 in.
4. Average Thickness: 0.040 in.
5. Exposure: 5 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

S. Weatherstone:

1. Design: Double 5 inch Dutchlap (WS5DL); woodgrain finish.
2. Width: 10 inches +/-0.062 in.
3. Length: 12 feet +/- 0.25 in.
4. Average Thickness: 0.040 in.
5. Exposure: 5 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.
8. Color: _____.

2.4 SIDING ACCESSORIES

A. Standard Accessories:

1. Corner post: Standard width, 10 feet length.
2. J-Channel: Standard width, 12 feet, 6 inches length.
3. Utility trim: 12 feet, 6 inches length.
4. Dual undersill trim: 12 feet, 6 inches length.
5. Springlock starter: 2-1/2 inches by 10 feet length.
6. Color: _____.

B. Optional Accessories:

1. Designer Corner Trim: 5 inch face by 20 feet length.
2. Designer J-channel: 3/4 inch pocket height by 2-1/4 inch pocket depth by 12 feet, 6 inches length.
3. Smarter Starter: 2-1/2 inch by 10 feet length.
4. Restoration 5 inch Box Post: 5 inch by 10 feet length.
5. Restoration 5 inch Box Post: 5 inch by 20 feet length.
6. Restoration Window/Door Surrounds: 3-1/2 inch by 12 feet, 6 inches length.
7. Restoration Window/Door Surrounds: 3-1/2 inch by 20 feet length.
8. Restoration Crown Molding: 2-1/2 inch by 10 feet length.
9. Color: _____.

2.5 VINYL SOFFIT

A. Perimeter Soffit - Solid:

1. Design: Double 5 inch solid (PSD5S); grain finish.
2. Width: 10 inches +/-0.062 in.
3. Length: 12 feet +/- 0.25 in.
4. Average Thickness: 0.046 in.
5. Exposure: 5 in., single nailing hem.
6. Maximum Warp (per 2 panels): 0.250 in.
7. Color: As selected by Architect from manufacturer's standards.

8. Color: _____.
- B. Perimeter Soffit - Vented:
1. Design: Double 5 inch vented (PSD5FV); grain finish.
 2. Width: 10 inches +/-0.062 in.
 3. Length: 12 feet +/- 0.25 in.
 4. Average Thickness: 0.046 in.
 5. Exposure: 5 in., single nailing hem.
 6. Maximum Warp (per 2 panels): 0.250 in.
 7. Ventilation: 6.42 sq. inches per sq. ft.
 8. Color: As selected by Architect from manufacturer's standards.
 9. Color: _____.
- C. Universal Soffit - Solid:
1. Design: Triple 4 inch solid (SUS12); smooth finish.
 2. Width: 12 inches +/-0.062 in.
 3. Length: 12 feet +/- 0.25 in.
 4. Average Thickness: 0.042 in.
 5. Exposure: 4 in., single nailing hem.
 6. Maximum Warp (per 2 panels): 0.250 in.
 7. Color: As selected by Architect from manufacturer's standards.
 8. Color: _____.
- D. Universal Soffit - Center Vent:
1. Design: Triple 4 inch center vent (US12); smooth finish.
 2. Width: 12 inches +/-0.062 in.
 3. Length: 12 feet +/- 0.25 in.
 4. Average Thickness: 0.042 in.
 5. Exposure: 4 in., single nailing hem.
 6. Maximum Warp (per 2 panels): 0.250 in.
 7. Ventilation: 1.95 sq. inches per sq. ft.
 8. Color: As selected by Architect from manufacturer's standards.
 9. Color: _____.
- E. Universal Soffit - Full Vent:
1. Design: Triple 4 inch full vent (FUS12); smooth finish.
 2. Width: 12 inches +/-0.062 in.
 3. Length: 12 feet +/- 0.25 in.
 4. Average Thickness: 0.042 in.
 5. Exposure: 4 in., single nailing hem.
 6. Maximum Warp (per 2 panels): 0.250 in.
 7. Ventilation: 5.85 sq. inches per sq. ft.

8. Color: As selected by Architect from manufacturer's standards.
 9. Color: _____.
- F. Builders Soffit - Solid:
1. Design: Triple 4 inch solid (SBST4); smooth finish.
 2. Width: 12 inches +/-0.062 in.
 3. Length: 12 feet +/- 0.25 in.
 4. Average Thickness: 0.036 in.
 5. Exposure: 4 in., single nailing hem.
 6. Maximum Warp (per 2 panels): 0.250 in.
 7. Color: As selected by Architect from manufacturer's standards.
 8. Color: _____.
- G. Builders Soffit - Vented:
1. Design: Triple 4 inch vented (FVBST4); smooth finish.
 2. Width: 12 inches +/-0.062 in.
 3. Length: 12 feet +/- 0.25 in.
 4. Average Thickness: 0.036 in.
 5. Exposure: 4 in., single nailing hem.
 6. Maximum Warp (per 2 panels): 0.250 in.
 7. Ventilation: 5.85 sq. inches per sq. ft.
 8. Color: As selected by Architect from manufacturer's standards.
 9. Color: _____.
- H. Restoration Beaded Soffit:
1. Design: Triple 2 inch solid (RSTCW6); smooth finish.
 2. Width: 6 inches +/-0.062 in.
 3. Length: 12 feet, 6 inches +/- 0.25 in.
 4. Average Thickness: 0.039 in.
 5. Exposure: 6 in., single nailing hem.
 6. Maximum Warp (per 2 panels): 0.250 in.
 7. Color: As selected by Architect from manufacturer's standards.
 8. Color: _____.
- I. Restoration Invisivent:
1. Design: Triple 2 inch vented (RSCW6V); smooth finish.
 2. Width: 6 inches +/-0.062 in.
 3. Length: 12 feet, 6 inches +/- 0.25 in.
 4. Average Thickness: 0.039 in.
 5. Exposure: 6 in., single nailing hem.
 6. Ventilation: 1.06 sq. inches per sq. ft.

7. Maximum Warp (per 2 panels): 0.250 in.
8. Color: As selected by Architect from manufacturer's standards.
9. Color: _____.

J. Soffit Accessories:

1. J-Channel: 3/8 inch by 12 feet, 6 inch length, for vertical and eave applications.
2. Soffit Double Channel Lineal: 3/8 inch by 12 feet, 6 inches length, for eave applications.
3. Soffit Cove Trim: 1/2 inch by 12 feet, 6 inches length.
4. F-Receiver.
5. Color: _____.

2.6 FASTENERS AND ACCESSORIES

- A. Fasteners: Galvanized nails or other corrosion-resistant fasteners, as recommended by manufacturer for specific application.
- B. Joint Sealers: As specified in Section 07900.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Prior to beginning installation of vinyl siding products, examine substrate conditions. Verify governing dimensions and acceptability of substrate. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install vinyl siding products in strict accordance with manufacturer's instructions.
- B. Install Symmetry siding using pre-manufactured clip system approved by siding manufacturer.
- C. Attach products securely to substrate for weathertight installation, with all joints true and plumb.

3.3 ADJUSTING AND CLEANING

- A. Clean any dirt from surface of installed products, using mild soap and water.
- B. Upon completion of installation, remove from project site excess materials and debris caused by vinyl siding installation.

END OF SECTION